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**COUNTY BOROUGH OF HALIFAX**

**Health Department**

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***ANNUAL REPORT***

***on the Health of the Borough  
for the Year 1968***

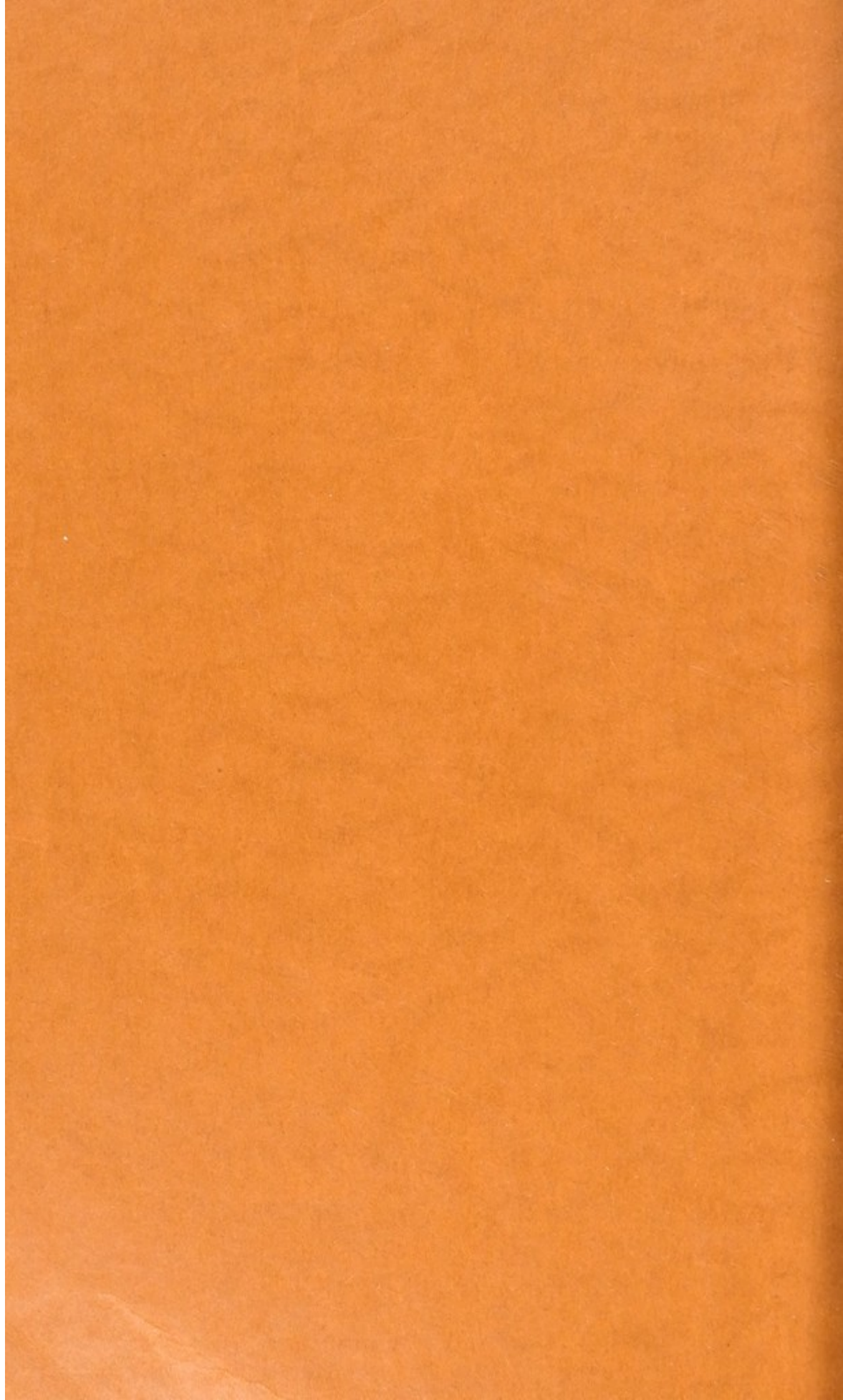


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**JOHN G. CAIRNS**

**M.B., Ch.B., D.P.H.**

**Medical Officer of Health**



**COUNTY BOROUGH OF HALIFAX**

**Health Department**

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***ANNUAL REPORT***

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**Medical Officer of Health**

# Health Committee

(as at 31st December, 1968)

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**The Worshipful, The Mayor**  
Alderman ERIC WHITEHEAD, J.P.

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Chairman: Alderman Mrs. L. A. MITCHELL  
Vice-Chairman: Councillor J. BLACKBURN

|                                      |                             |
|--------------------------------------|-----------------------------|
| Alderman D. FAWCETT                  | Councillor S. HIRST         |
| Alderman W. HIGGINS                  | Councillor F. HOLDEN        |
| Alderman F. SWIRE                    | Councillor S. HOLLAND       |
| Councillor G. E. CHADWICK            | Councillor J. W. KEENAN     |
| Councillor Mrs. A. CULPAN            | Councillor Dr. B. T. MANN,  |
| Councillor R. DEADMAN                | M.B.E., B.Sc.               |
| Councillor J. A. DRAKE, C.B.E., J.P. | Councillor Mrs. N. M. PERRY |

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## Sub-Committees

### Sanitary Services and Clean Air Sub-Committee:

THE CHAIRMAN VICE-CHAIRMAN  
Aldermen MITCHELL, FAWCETT, HIGGINS and SWIRE; Councillors  
BLACKBURN, CHADWICK, DRAKE, HIRST and HOLLAND

### Maternal and Child Welfare Sub-Committee:

THE CHAIRMAN VICE-CHAIRMAN  
Aldermen MITCHELL, FAWCETT and SWIRE; Councillors BLACKBURN  
HOLLAND, MANN and PERRY  
Co-opted Members: Mesdames J. GREENWOOD, M.C., L. S.  
OAKES and TAYLOR

### Mental Health and Care Sub-Committee:

THE CHAIRMAN VICE-CHAIRMAN  
Aldermen MITCHELL, FAWCETT and SWIRE; Councillors BLACKBURN  
HOLDEN, HOLLAND, KEENAN, MANN and PERRY

### Salaries Sub-Committee:

THE CHAIRMAN VICE-CHAIRMAN  
Alderman SWIRE, Councillors CHADWICK, WARNE

### Co-ordination Committees:

#### Problem Families Joint Sub-Committee

THE CHAIRMAN VICE-CHAIRMAN

### Health and Welfare Consultative Committee:

CHAIRMAN, VICE-CHAIRMAN and the M.O.H.

# Staff of the Health Department

(as on 31st December, 1968)

## Medical Officer of Health

JOHN G. CAIRNS, M.B., Ch.B., D.P.H., F.R.S.H.

## Deputy Medical Officer of Health

KENNETH MALCOLM WOOD, M.B., Ch.B., Dc.H., D.P.H., D.R.C.O.G.

## Assistant Medical Officers

MARGARET E. ANDERSON, M.B., Ch.B.

SHAKUNTALA JINDAL, M.B., B.S., M.S.(Obst. & Gyn.)

## Chief Public Health Inspector

ARTHUR W. PERRY, M.R.S.H., F.A.P.H.I., D.P.A., Dip. San. Sc.

## Deputy Chief Public Health Inspector:

JAMES E. BANKS 1. 3. 4. 5

## Senior Inspectors

G. A. WOODHEAD 1. 3. A. LUM 1. 3. 4. D. W. WRIGHT 1. 3.

## Public Health Inspectors

F. BURKE 1. 3. D. P. KAYE 1. 3. N. HELLIWELL 1. 3.

J. PRIESTLEY 2. 4. J. F. BARRACLOUGH 2. 4. D. BROADBENT 2.

B. R. SWAINE 2. G. E. ARNOTT 1. 3.

## Technical Assistants

B. DRAKE (Clean Air) R. S. ELSWORTH (Housing)

## Pupil Public Health Inspectors

P. V. RUTA, R. COLLINGE, D. J. WHITELEY, C. HARTE

## Rodent Control

R. GARFORTH, Senior Operative

## Nursing Staff

Superintendent Nursing Officer

Miss V. SAVAGE (6. 7. 8. 13)

Deputy Supt. Nursing Officer

Miss S. L. WALKER (6. 7. 8. 12. 13)

Assistant Nursing Officer

Mr. D. S. BEER (6. 13)

Health Visitors

Miss P. VAUGHAN (6. 7. 8)

Miss I. HOLDSWORTH (6. 7. 8)

Mrs. J. C. B. GREENWOOD (6. 7. 8. 9. 13)

Miss E. CROSSLEY (6. 7. 8)

Mrs. S. M. TODD (6. 7. 8)

Mrs. E. E. BUSWELL (6. 7. 8)

Miss G. DAVIE (W.R.C.C.)

Health Visitor, Part-time (Special Treatment Cases)

Special Duty Nurses

Mrs. C. M. TOPHAM (6. 13)

Mrs. B. M. FIELD (6. 7)

Mrs. M. DODD (6)

Mrs. N. HEY (6. 13)

Mrs. D. BAGLEY (6. 7. 9)

Part-time Clinic Nurses

Mrs. E. M. LOCKWOOD

Mrs. M. WINSTANLEY

Mrs. I. KNIGHT

Day Nursery Staff—

Craigie Lea Day Nursery

Matron: Mrs. J. WIGGINS (14)

Ling Bob Day Nursery

Matron: Miss M. GOODWIN (6)

## Mental Health Staff

Senior Mental Welfare Officer

Mr. L. HOLDSWORTH

Mental Welfare Officers

P. NICHOLSON (6)

E. M. SMITH (6)

Mrs. P. C. TANSLEY

### **Mental Health Staff—continued**

|                                |  |
|--------------------------------|--|
| Psychiatric Social Worker      | Mrs. C. BERRY  |
| Mental Welfare Assistant       | Mr. J. S. WILSON   |
| Mental Welfare Service Trainee | Miss S. HIGGINS  |
| Training Centres Supervisor    | Mrs. I. THORPE (2 Asst Supervisors).                       |
| Adult Training Centre          | Mr. C. GREENWOOD, Sen. Instructor<br>(2 Asst. Instructors) |

### **Part III Services Departmental Officers**

|                     |  |
|---------------------|--|
| Ambulance Officer   | Mr. W. FITTON  |
| Home Help Organiser | Mrs. R. A. McNAMARA.   |
| L.H.A. Chiropodists | Mr. F. C. LUXTON, M.C.H.S., M.R.S.H.<br>Mr. W. AKROYD, M.C.H.S.<br>Mr. G. BRIGGS (temporary) |

### **Part-time Consulting Staff**

|                     |  |
|---------------------|--|
| L.H.A. Obstetrician | Mr. J. N. EMBLIN, F.R.C.S., F.R.C.O.G.<br>Dr. G. F. J. GODDARD, M.R.C.S.,<br>L.R.C.P. (Child Guidance)<br>Dr. M. S. OXLEY, M.B., CH.B. (Chest<br>Physician R.H.B.) |
| Analyst             | Mr. R. MALLINDER, B.SC., F.I.C.  |

### **Administrative and Clerical Staff**

|  |   |
|--|---|
| Senior Administrative Assistant          | JOHN M. FLETCHER  |
| Senior Clerk, Environmental Hygiene      | P. RODNEY HAIGH   |
| Senior Clerk Secretarial and Gen. Office | Mrs. E. A. SUNDERLAND                                     |
| Clerical Assistants:                     |   |
| Ambulance                                | Mr. D. SPEAK  |
| Maternal and Child Welfare               | Mrs. B. L. WATSON   |
| S/T                                      | Miss J. MASON   |
| S/T                                      | Miss P. JOHNSON   |
| Mental Health and After Care             | Miss G. VALENTINE   |
| Housing                                  | Miss U. WILLIAMS  |
| Nursing Services                         | Miss G. WOOD  |
| Finance                                  | Mrs. R. WHITLEY   |
| Housing and Environmental Hygiene        | Mr. P. G. FILBY   |
| Smoke Control                            | Mr. A. KOWALSKI   |
| General Office                           | Mr. H. GAUKROGER<br>Miss S. HOLBROOKE<br>Miss W. J. BAKER |
| Ambulance Service (Casual)               | Mr. R. SCOTT  |
| Home Help Service                        | Mrs. P. LEGALLEZ<br>Miss K. BOLTON                        |

### **Qualifications Denoted:**

1. Public Health Inspector's Certificate
2. Public Health Inspector's Diploma
3. Meat Inspector's.
4. Smoke Inspector's
5. Diploma San Sc. (Building & Public Works)
6. State Registered Nurse
7. State Certified Midwife
8. Health Visitor's Certificate
9. Registered Fever Nurse
10. Registered Sick Children's Nurse
11. Enrolled Assistant Nurse
12. Registered Mental Nurse
13. Queen's Nurse
14. Nursery Nurses Diploma

# Annual Report 1968

To the Mayor and Members of the Council,

I have pleasure in presenting my eleventh Annual Report on the health of Halifax. Referring to Section 1 which has to do with vital statistics the reader will at once be struck with statistical comparisons and inequalities within local government areas and in regard to the national health position. That this should be so may be a reflection on the quantity and quality of the local health resources. For example, authorities numerically low on Health Visitor establishment can expect a higher childhood mortality.

## Major issues

Health departments have been engaged for more than a hundred years in assessing inequalities, clinical, social and racial, within their boundaries in order to explain the fluctuations in the fortunes of health. The age structure of a population where there is 16% of persons over the age of 65 may be small comfort in explaining why a greater number of persons in Halifax die of heart and vascular disease, viz. 58.16% of all deaths. It may be possible to delude ourselves of the complete truth by accepting basic assumptions, but it is only by meeting our obligations in relation to a watchful public health service that we can make progress.

During the year we noted a high level of lead content in some areas of culinary spring water supply and blood examinations were required to reassure us that the consumers were not being poisoned. There has been some interest aroused in cardio-vascular statistics related to softness of water and a good deal of work will be required to correlate deficiencies of tracer elements with the unsatisfactory mortality position in Halifax.

TABLE OF TOWNS

| Name of Town     | Total Hardness of Water<br>p.p.m.<br>(estimated mean 1961) |  | Mortality from all<br>cardiovascular disease |         |
|------------------|--|--|--|---------|
|                  |  |  | Ages 45-64, 1958-1964                        |         |
| Soft water towns |  |  | Males  | Females |
| Bradford ..      | 40   |  | 781  | 366     |
| Halifax ..       | 34   |  | 862  | 395     |
| Plymouth ..      | 20   |  | 720  | 353     |
| Preston ..       | 33   |  | 784  | 347     |
| Salford ..       | 28   |  | 786  | 376     |
| Swansea ..       | 37   |  | 807  | 332     |

### Hard water towns

|         |    |     |     |     |
|---------|----|-----|-----|-----|
| Croydon | .. | 253 | 543 | 216 |
| Grimsby | .. | 263 | 597 | 260 |
| Hull    | .. | 260 | 597 | 298 |
| Ipswich | .. | 358 | 499 | 244 |
| Norwich | .. | 345 | 534 | 236 |
| Reading | .. | 261 | 560 | 270 |

### Social inequality

The social inequalities observed by the Department have reference to those members of the public who are inadequate or neurotic, those with low intelligence or the subnormal and the psychopathic. The inequalities may be cultural, legal, financial, etc., within the spectrum of health normality or near normality and a fair sample of these may be ascertained by gleaning the statistics of the Citizens' Advice Bureau, having a bearing on health and connected with housing, sanitation, illness, etc. Those who are feeble minded may present the greatest public health challenge.

The most serious of all the social inequalities having a bearing on mental health relates to psychopathy.

It will be noted from Table XXV that during the year 42 new cases of psychopathy were brought to the notice of the mental health service in addition to the 228 cases already known; an increase of 18.4%. This is a most disturbing item as psychopathy is a state which presents the utmost difficulty in its management. Many psychopaths have no noted intellectual defect, nor do they necessarily benefit under prison treatment or hospital observation and treatment. They are a rebellious individualistic group who fail to conform to their social milieu and they have a state of psychological imagery which prevents them from adapting to reality and profiting from experience. They lack judgement, foresight and ordinary prudence; they are adept at contriving situations in which it appears that something must be done to help them, but unfortunately the available alternatives are very rarely suitable; they will play upon the sympathies of well-meaning untrained persons who know nothing of their history and background and who are inclined to request help on behalf of the affected individual. In many cases any help will produce no lasting benefit and the requests are merely an elegant form of scrounging or at the very best attention-seeking. Many cases which become known to the staff of mental hospitals have to be excluded from the hospital as no suitable treatment can be given to them and they are simply occupying beds to no purpose. Whereas it may be justifiable for hospital admission to be refused for these people the onus is then placed upon the mental health authority to provide them with assistance. It has to be recognised that any help and assistance could well produce no long lasting effect and very little immediate effect, but under the terms of the Mental Health Act, 1959, this is an obligation which

rests upon a local mental health authority. The most it is possible to do is to make a reasonable social provision for these people and endeavour to prevent them wilfully misusing the services provided. Even this is by no means entirely possible and the problem remains constantly before us.

During the past year the medical staff of the Department have discussed this problem widely with psychiatric consultants, the police authority, other medical officers of health and representatives of the Ministry of Health and Social Security, and it must be recorded that no fully adequate solution is yet forthcoming for these cases. Further reference to psychopathy is made in Section II.

Regarding inequalities in the community, both clinical and social, it has been my experience throughout the year that the individual in need of social help in a great number of cases is inadequately dealt with before and after referral to the Ministry of Social Security, except in the case of the elderly and disabled. This does not mean that the Ministry of Social Security should in any way be criticised but simply that money of itself given out by the State cannot possibly solve the whole problem of the social inequalities which present in persons, and more social case work is required for those in need. The Seeborn Report recognises a more uniform methodology or a more unified body of principle relating to social work, and defines a general social worker status as an essential link in the whole chain of services required to preserve the community health. This would be very valuable and would be a great step in the prevention of inequality but at the same time there are many congenital defects which require special social investigation and we must realise that there are many influences affecting the structure of society, educational, medical and genetic, which require social workers of a calibre higher than the general social worker referred to.

We also experience social inequality in reference to the structure of local government. There is at present a wide disparity in size and wealth between authorities responsible for similar services. Counties, for example, may vary in size between thousands of square miles and a few hundred square miles. Many county boroughs, including Halifax, have a population of less than 100,000. This variation in size means that there is an inevitable variation in the quality of administration. Many small authorities like Halifax can neither afford nor attract the necessary professional staff who are inevitably employed by richer authorities.

In regard to personnel also there is an inequality. This should not dismay us, for it is only the differences in endowment or professional skill which can match up to the inequalities which have been reviewed. In the Church there are bishops, priests and deacons and a whole multitude of different workers, official and voluntary, to keep things going. In medicine there are physicians and surgeons and a host of medical auxiliaries. If health authorities are to fulfil the real function in preserving amenity and health a great variety of different workers will be required. Home helps are required for

the manual duties within the home; budgeting, cleaning, caring, watching, befriending, and health departments, without its proper quota of these, which is over professionalised, without ancillary workers, could be ineffectual as a team. It is with gratitude that I have to report maintenance of a satisfactory standard in this direction and in all branches there is good team work. I have been grateful also for the skills of the voluntary workers at various clinical sessions and in the field of home visitation and in assistance with the running of the daily nursery. Rationalisation is a technique which has been applied to social workers and health visitors, using nurses as social workers and health visitors.

There are also social inequalities related to the degree of participation by the public in health schemes. I think that it was Rousseau who said that "Man is born free but is everywhere in chains". Man can imprison himself within the confines of bad health by resolute resistance to prevention. Independence or non-conformity may in certain pursuits have much to commend it, but to turn a blind eye on simple procedures requested by the Health Department can enslave not only in an individual sense but commit the community to dangers which once endured there can be no point of return. This applies to Mass Radiography, smoking, cancer, health, education, etc.

### **Community Disease and Infection**

Deaths from cancer of the lung and bronchus in men over the age of 45 are again high. It is distressing to see the incidence of this type of cancer when the greater part of it could be avoided in future years by the giving up of the cigarette smoking habit. The incidence of chronic bronchitis would no doubt also be affected in the future.

Of the other principal causes of death that of heart disease in middle aged men could probably be reduced somewhat if the individual made a definite attempt to lose weight and to take more exercise.

Once again in 1968 there were no deaths from typhoid, small-pox, whooping cough or diphtheria. Only three cases of influenza deaths occurred in the town. This disease must be viewed as one which is now preventable albeit at some cost to the community. However, when the outbreak of influenza which originated in Hong Kong occurred in the early part of the year it appeared that the public were willing to pay for the cost of influenza vaccine. The only difficulty was the shortage of this vaccine. However, future supplies will contain the antigen for that particular strain and one can only hope that when periodic emergencies of a new influenza strain occur the early warning system will prove as adequate as it did in 1968. In the Health Department all the staff in key positions who expressed a desire for vaccination received it.

Twelve deaths occurred due to malignancy of the uterus. It may be that this figure could be reduced if the cervical cytology campaign becomes extended to more women, who are then followed

up at regular intervals. Encouragement to this campaign is being given by the Local Authority to allow female staff time off without loss of pay to attend for examination.

New techniques for screening for breast carcinoma are being discovered and at some stage it may be possible to introduce breast screening at the same time as the cervical cytology.

### **Tuberculosis**

The number of cases of pulmonary tuberculosis decreased by 71 in the year. Of these 9 left the district, 36 recovered, 16 died and 10 were "lost sight of". This category is a most disturbing one as it includes certain very unco-operative persons suffering from tuberculosis who failed to co-operate in any way in their treatment and whose attitude can well be demonstrated by the fact that they move to a new address and make no effort to inform the tuberculosis services of the fact. In some cases the non-co-operation extends to a refusal to attend the clinic or to take adequate therapy.

### **Housing**

Very little was done in the representation of unfit houses in 1968. The Council asked that representations should not be made for a year pending the redevelopment of some of the open sites which had been produced from formal clearance area action. Meanwhile, work went ahead on the Gladstone Road Improvement Area, its formal declaration and the service of notices on the tenanted properties, and letters to the owner/occupiers. Discussions also took place with owners of other proposed Improvement Areas in the town.

### **Smoke**

Once more a smoke control order comprising 1,554 houses came into operation during the year and another area was confirmed ready to come into operation in 1969. The steady progress of smoke control was thus continued and the reduction in smoke and sulphur dioxide was maintained. Again there was no opposition to the making of the smoke control order and it was only necessary to resort to prosecution in the case of one industrial premise where there were contraventions of the Clean Air Act.

### **Water Supply**

There was some concern during the year about the high content of dissolved lead in some of the private spring supplies in rural parts of the local authority. Halifax has a thickly populated central area surrounded by rural parts which are of difficult terrain and which lack water mains. Consequently the occupiers of houses have to rely on spring water from the moors which is plumbosolvent. There are about 350 houses still on spring supply. Sometimes when the springs are some distance away the supply pipe

is of lead and it is these cases which cause most concern. The problem is being dealt with in two ways. The installation of water mains to the affected areas and as an example Jowler can be quoted, and others were Shibden Valley; Green Lane, Northowram; Gibb Lane, Mount Tabor. Other schemes are awaiting a more suitable financial situation or the approval of adjoining authorities to take water from them.

In other areas where water mains are not possible, any application for a standard or improvement grant always calls for an examination of the water supply and its plumbo-solvency and steps are taken then to put right any deficiencies found. This could well call for a survey of the gathering ground for the spring, the improvement of the supply tanks, the renewal or replacement of the supply piping, and the installation of a filter on the tap.

It is unfortunate that in the Halifax area the Calderdale Water Board will not contribute anything towards the installation of these water mains when they are uneconomic and we have to try and persuade the owners to pay a contribution towards the cost. Although the property is enhanced in value by the putting in of water mains, when there are several parties to deal with it is often the case that one or two will not agree and the scheme becomes abortive.

The same water is, of course, collected in the public reservoirs but it is treated at the filter houses with lime or sodium carbonate and artificially hardened.

Only a few complaints were made of the public water supplies and these usually referred to the dirty appearance of the water and in each case this was reported on by the Public Analyst as being due to excessive iron from rusty mains. The flushing of the main was carried out in each case.

Yours faithfully,

JOHN G. CAIRNS,

*Medical Officer of Health*

## LAURA MITCHELL CLINIC

Opened 23rd October, 1968



*By courtesy of Halifax Courier Ltd.*

*The Duchess of Kent in the Daily Nursery*

## CONFERENCES ATTENDED 1968

- Royal Society of Health  
Annual Congress, 29th April to 3rd May, 1968. Eastbourne  
Chairman and Medical Officer of Health
- Federation of Associations of Mental Health Workers  
Annual Conference, 19th to 22nd April, 1968. Blackpool.  
Senior Mental Welfare Officer.
- Association of Public Health Inspectors  
Refresher Course, 5th to 7th April, 1968. Rotherham  
Chief Public Health Inspector
- Society of Medical Officers of Health  
Course, 25th to 27th April, 1968. Manchester  
Deputy Medical Officer of Health
- Central Council for Health Education  
Seminar, 26th to 28th February, 1968. London  
Medical Officer of Health
- National Association for Maternal and Child Welfare  
Annual Conference, 12th to 14th June, 1968. London  
Chairman and Medical Officer of Health
- National Centre for Commonwealth Immigrants  
One-Day Conference, 6th March, 1968. Huddersfield  
Deputy Medical Officer of Health
- National Association for Family Planning  
One-Day Conference, 5th April, 1968. London  
Councillor Mrs. Perry
- Association of Public Health Inspectors  
Annual Conference, 16th to 20th September, 1968. Blackpool  
Chairman and Chief Public Health Inspector
- National Council for Home Help Services  
One-Day Conference, 21st March, 1968. Coventry  
Home Help Organiser
- Association of Health Administrative Officers  
Summer School, 11th to 14th September, 1968. Oxford.  
Senior Administrative Assistant
- National Association of Ambulance Officers  
Annual Conference, 24th to 26th September, 1968. Blackpool  
Chairman and Ambulance Officer
- National Society for Clean Air  
Conference, 22nd to 25th October, 1968. Harrogate  
Chairman and Chief Public Health Inspector
- Society of Home Help Organisers  
Weekend School, 12th to 14th September, 1968. London  
Home Help Organiser
- British Epilepsy Association  
Study Day, 7th November, 1968. Halifax  
Members and Staff
- Royal Society for Health, Mental Health Group  
Meeting, 1st November, 1968. Birmingham  
Medical Officer of Health
- Association of Municipal Authorities  
Study Conference, 4th and 5th December, 1968. London  
Chairman and Medical Officer of Health

## SECTION I

### STATISTICS AND POPULATION

Seventy less children were born in Halifax during 1968, 1,615 LIVE BIRTHS (compared with 1,685 in 1967), equivalent to a crude birth rate of 17.1. The rate for 1967 was 17.8. When multiplied by the Area Comparability Factor, the adjusted rate for 1968 is 18.46, which corresponds with the rate for England and Wales of 16.9. Illegitimate live births numbered 208 as compared with 219 in 1967, and equal to 12.87 of the total live births. Notifications of Premature Births during 1968 showed an increase of 4 on the previous year. During 1968 there were 19 Premature Infant Deaths, an increase of 8 on the previous year. Details of all premature live and still births for two years are shown in Table IIa.

There were 28 still births during the year, the same as in 1967. The rates for the two years were 16.0 and 17.0 respectively, whilst the rate for England and Wales for 1968 was 14.0. DEATHS of infants under one week (19) were 1 less than in the previous year and the total Perinatal deaths numbered 47. The PERINATAL mortality rate being the same for both years: 29.0 (1967), 29.0 (1968), the national figure being 25.0.

The total number of children who died under the age of one year was 47 compared with 48 in the previous year, and the infant mortality rates for the two years were 28.48 in 1967 and 29.16 in 1968 per 1,000 live births. The figure for England and Wales for 1968 was 18.0. The figures relating to infant mortality for a ten-year period are shown in Table V. Of the total of 47 infant deaths, 27 took place during the first four weeks of life, giving a neo-natal mortality rate of 11.76 per 1,000 live births, and 20 occurred between the age of four weeks and one year, giving a post neo-natal mortality rate of 16.71.

These vital statistics can only be improved by building up our health resources.

Details concerning infant mortality are given in Tables IV to IX and the principal causes of deaths in children under one year are listed in Tables VIII and IX.

Deaths of Halifax residents totalled 1,381 in 1968, of which 656 were males and 725 were females. The crude death rate was 14.64 per thousand compared with 13.9 per thousand for 1967. When the crude death rate is multiplied by the area comparability factor, the adjusted rate is 12.99, which compares with 12.23 in 1967. The rate for England and Wales for 1968 was 11.9. There were no maternal deaths during the year. In Table XI the death rates are shown for Halifax, and England and Wales for the past ten years.

There were three deaths from influenza, and the total number

of deaths from other respiratory disease (excluding respiratory tuberculosis) increased, 165 being recorded compared with 144 in 1967.

There were 229 deaths due to malignant neoplasms in 1968, a decrease on the previous year's figures. The rate per thousand estimated population was 2.42 as against the rate of 2.59 in 1967. These deaths from malignancy or cancer accounted for 15.85 per cent of the total deaths for the year under review compared with 18.27 in 1967 and 16.51 in 1966. Further comparison on deaths from this disease in recent years are given in Tables XII and XIII. 47 deaths were attributed to cancer of the lung and bronchus, the greatest number occurring in males in the age group 65 to 74.

Deaths from cancer of the stomach numbered 30 compared with 36 in 1967 and 36 in 1966. Table XIII gives an analysis of the deaths from malignant neoplasms showing the parts of the body affected and the age at which death occurred. Deaths from Coronary Disease have increased this year, there being 372 deaths as against 346 in 1967. Seizures due to diseases of the blood vessels in the nervous system have shown a decrease, there being 225 compared with 250 in 1967. The rates for coronary diseases and diseases of circulation of the nervous system per 1,000 of the population are as follows: Coronary Disease 3.94 per thousand compared with 3.65 per thousand in 1967. Seizures 2.38 per thousand compared with 2.53 per thousand in 1967.

The Halifax position compared to other towns is shown in Table XXVIII.

The prevalence of tuberculosis was reduced from 5.42 per thousand (1967) to 5.1 per thousand (1968) – Table XXIV.

TABLE XXVIII  
COMPARATIVE STATEMENT OF VITAL STATISTICS  
Year 1968

|                                 | Birth Rate | Death Rate | Infant Mortality Rate | Still Birth Rate (per 1,000 live and still births) | Perinatal Mortality Rate | Maternal Mortality Rate per 1,000 Total (Live and Still Births) |                 |                          |
|---------------------------------|------------|------------|-----------------------|--|--------------------------|---|-----------------|--------------------------|
|                                 |            |            |                       |  |                          | Maternal causes excluding abortion                              | Due to abortion | Total Maternal Mortality |
| England and Wales (provisional) |            |            |                       |  |                          |   |                 |                          |
| Birkenhead ..                   | 16.9       | 11.9       | 18.0                  | 14.0   | 25.0                     | 0.18  | 0.06            | 0.24                     |
| Burnley ..                      | 17.5       | 12.0       | 26.0                  | 17.0   | 29.0                     | —   | —               | —                        |
| Bury ..                         | 15.78      | 15.67      | 18.14                 | 24.14  | 33.79                    | 0.80  | —               | 0.80                     |
| Halifax ..                      | 19.55      | 13.73      | 17.81                 | 18.25  | 28.13                    | —   | —               | —                        |
| Liverpool ..                    | 17.1       | 14.6       | 29.16                 | 17.04  | 28.6                     | —   | —               | —                        |
| Manchester ..                   | 17.2       | 11.6       | 22.1                  | 18.2   | 30.7                     | 0.083   | —               | 0.083                    |
| Oldham ..                       | 17.81      | 12.68      | 26.36                 | 15.86  | 29.88                    | —   | —               | —                        |
| Preston ..                      | 17.69      | 14.92      | 24.86                 | 21.8   | 38.02                    | —   | —               | —                        |
| Rochdale ..                     | 17.95      | 13.1       | 25.81                 | 14.83  | 24.89                    | 0.53  | —               | 0.53                     |
| St. Helens ..                   | 19.25      | 13.58      | 24.65                 | 18.24  | 30.86                    | —   | —               | —                        |
| Stockport ..                    | 19.0       | 12.8       | 25.7                  | 17.2   | 33.9                     | —   | —               | —                        |
| Wigan ..                        | 18.1       | 13.01      | 22.37                 | 15.08  | 28.22                    | —   | —               | —                        |
|                                 | 18.9       | 13.1       | 19.0                  | 19.0   | 29.0                     | 0.017   | —               | 0.017                    |

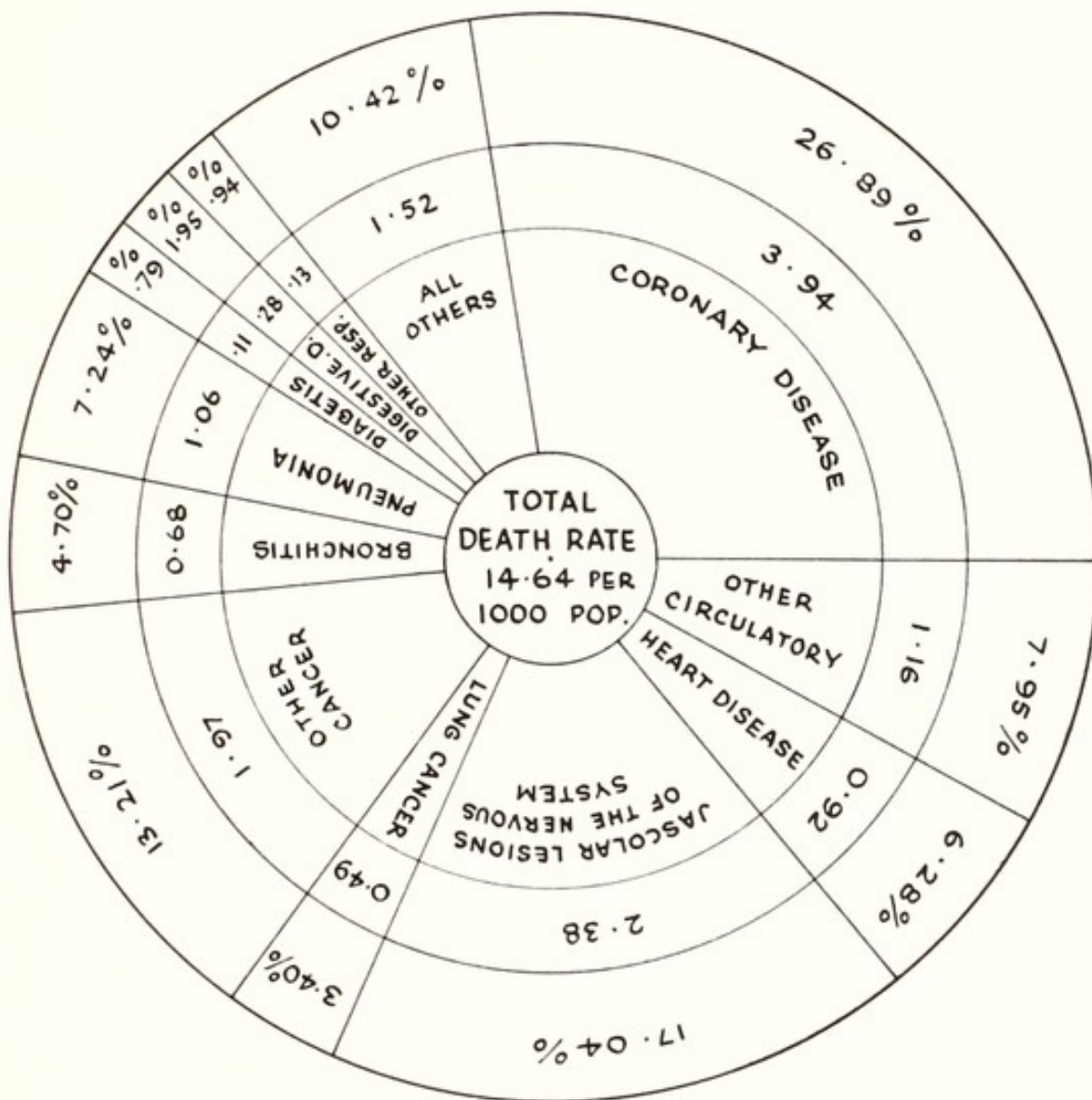
# STATISTICS AND SOCIAL CONDITIONS OF THE AREA

## SUMMARY

|  |    |    |    |    |    |    |               |
|--|----|----|----|----|----|----|---------------|
| Latitude   | .. | .. | .. | .. | .. | .. | 53° 44° North |
| Longitude  | .. | .. | .. | .. | .. | .. | 1° 50° West   |
| Mean Height above sea level                        |    |    |    | .. | .. | .. | 780 feet      |
| Area (Acres)                                       | .. | .. | .. | .. | .. | .. | 14,081        |
| Population (Census 1931)                           | .. | .. | .. | .. | .. | .. | 98,115        |
| (Males 44,600. Females 53,515)                     |    |    |    |    |    |    |               |
| Population (Census 1951)                           | .. | .. | .. | .. | .. | .. | 98,376        |
| (Male 45,487. Females 52,889)                      |    |    |    |    |    |    |               |
| Population (Census 1961)                           | .. | .. | .. | .. | .. | .. | 96,873        |
| Population (Registrar General's Estimate 1967)     | .. | .. | .. | .. | .. | .. | 94,280        |
| Density of population per acre                     | .. | .. | .. | .. | .. | .. | 6.69          |
| Number of inhabited houses (1931 Census)           | .. | .. | .. | .. | .. | .. | 28,488        |
| Number of inhabited houses on 31st December, 1967, | .. | .. | .. | .. | .. | .. | 34,880        |
| according to the Rate Books                        |    |    |    |    |    |    |               |
| Average number of persons to each occupied house   | .. | .. | .. | .. | .. | .. | 2.70          |
| Rateable Value (31st December, 1967)               | .. | .. | .. | .. | .. | .. | £2,827,553    |
| Sum represented by a Penny Rate (1967-68)          | .. | .. | .. | .. | .. | .. | £11,080       |

## EXTRACT FROM VITAL STATISTICS FOR THE YEAR

|   |    |    |    | Male | Female | Total |
|---|----|----|----|------|--------|-------|
| Live Births—Legitimate                                  | .. | .. | .. | 694  | 713    | 1,407 |
| Illegitimate  | .. | .. | .. | 111  | 97     | 208   |
| Total   | .. | .. | .. | 805  | 810    | 1,615 |
| Live Birth Rate per 1,000 Estimated Resident Population |    |    |    |      |        |       |
| Crude   | .. | .. | .. | ..   | ..     | 17.10 |
| Adjusted  | .. | .. | .. | ..   | ..     | 18.46 |
| Illegitimate Live Births per cent. of total live births | .. | .. | .. | ..   | ..     | 12.87 |



EXTRACT FROM VITAL STATISTICS FOR THE YEAR (*Cont.*)

|  | Male | Female | Total |
|--|------|--------|-------|
| Stillbirths—Legitimate .. ..   | 12   | 15     | 27    |
| Illegitimate .. ..   | 1    | —      | 1     |
| Total .. .. .  | 13   | 15     | 28    |
| Stillbirth Rate per 1,000 Live and Stillbirths .. ..   |      |        | 17.04 |
| Total Live and Stillbirths .. .. .   |      |        | 1,643 |
| Deaths of Infants:   | Male | Female | Total |
| Under 1 year of age—Legitimate   | 14   | 22     | 36    |
| Illegitimate   | 7    | 4      | 11    |
| Total .. .. .  | 21   | 26     | 47    |
| Infant Mortality Rates:—   |      |        |       |
| Total Infant Deaths per 1,000 total live births .. ..  |      |        | 29.16 |
| Legitimate Infant Deaths per 1,000 Legitimate Live Births .. .. .  |      |        | 25.58 |
| Illegitimate Infant Deaths per 1,000 Illegitimate Live Births .. .. .  |      |        | 52.88 |
| Deaths of Infants:—  | Male | Female | Total |
| Under 4 weeks of age—Legitimate  | 8    | 12     | 20    |
| Illegitimate   | 7    | —      | 7     |
| Total .. .. .  | 15   | 12     | 27    |
| Neo-Natal Mortality Rate per 1,000 total live births ..  |      |        | 11.76 |
| Deaths of Infants:—  | Male | Female | Total |
| Under the age of 1 week—Legitimate   | 6    | 8      | 14    |
| Illegitimate   | 5    | —      | 5     |
| Total .. .. .  | 11   | 8      | 19    |
| Early Neo-Natal Mortality Rate per 1,000 total live births .. .. .   |      |        | 16.71 |
| Perinatal Mortality Rate (stillbirths and deaths under one week combined per 1,000 total live and stillbirths) .. .. . |      |        | 28.60 |
| Maternal Deaths (including abortion) .. .. .   |      |        | Nil   |
| Maternal Mortality Rate per 1,000 Live Stillbirths ..  |      |        | Nil   |
|  | Male | Female | Total |
| TOTAL DEATHS (all ages) .. .. .  | 656  | 725    | 1,381 |
| Death rate per 1,000 Estimated Resident Population:  |      |        |       |
| Crude .. .. .  |      |        | 14.60 |
| Adjusted .. .. .   |      |        | 12.99 |
| Area Comparability Factors—Births .. .. .  |      |        | 1.08  |
| Deaths .. .. .   |      |        | 0.89  |

TABLE I

## THE POPULATION OF THE BOROUGH OF HALIFAX

| Year | Population | Note  |
|------|------------|---|
| 1848 | 40,000     | Borough Incorporated  |
| 1861 | 51,937     |   |
| 1871 | 65,510     |   |
| 1881 | 63,360     |   |
| 1891 | 82,864     |   |
| 1892 | 83,364     | Borough extended by the additions of Ovenden and Illingworth Wards. |
| 1899 | 90,934     |   |
| 1900 | 96,684     | Borough extended by the addition of Copley Ward.                    |
| 1901 | 104,936    |   |
| 1911 | 101,566    | Borough extended by the additions of Warley and Northowarm Wards.   |
| 1921 | 100,700    |   |
| 1931 | 98,115     | Mid-year density of population per acre 6.3.                        |
| 1945 | 89,390     |   |
| 1946 | 93,280     |   |
| 1947 | 94,580     |   |
| 1948 | 96,420     |   |
| 1949 | 97,820     | Mid-year density of population per acre 6.9.                        |
| 1950 | 98,840     |   |
| 1951 | 97,490     |   |
| 1952 | 97,320     |   |
| 1953 | 97,070     |   |
| 1954 | 97,130     | ditto.  |
| 1955 | 96,870     | ditto.  |
| 1956 | 96,440     | 6.88  |
| 1957 | 95,430     | 6.85  |
| 1958 | 95,250     |   |
| 1959 | 94,980     | 96,073 (Census 1961).   |
| 1960 | 94,900     |   |
| 1961 | 95,980     |   |
| 1962 | 96,250     |   |
| 1963 | 95,850     |   |
| 1964 | 95,450     |   |
| 1965 | 95,090     |   |
| 1966 | 94,950     |   |
| 1967 | 94,770     |   |
| 1968 | 94,280     |   |

**TABLE II**  
**BIRTH RATES, 1959-68**

| Years | HALIFAX       |                                       | ENGLAND<br>AND WALES<br>BIRTH<br>RATE |
|-------|---------------|---------------------------------------|---------------------------------------|
|       | No. of Births | Birth Rate<br>per 1,000<br>Population |                                       |
| 1959  | 1,512         | 15.9                                  | 16.5                                  |
| 1960  | 1,612         | 17.0                                  | 17.1                                  |
| 1961  | 1,569         | 16.3                                  | 17.4                                  |
| 1962  | 1,649         | 17.1                                  | 18.0                                  |
| 1963  | 1,678         | 17.5                                  | 18.8                                  |
| 1964  | 1,752         | 18.35                                 | 18.4                                  |
| 1965  | 1,662         | 17.57                                 | 18.0                                  |
| 1966  | 1,679         | 17.68                                 | 17.7                                  |
| 1967  | 1,685         | 17.80                                 | 17.2                                  |
| 1968  | 1,615         | 17.10                                 | 16.9                                  |

**TABLE II(a)**  
**PREMATURE LIVE BIRTHS, 1967-68**

| Premature Live Births Notified  | YEARS |      |
|---|-------|------|
|   | 1967  | 1968 |
| (a) Born in Hospital .. .. .  | 124   | 122  |
| (i) Died within 24 hours of birth .. .. .                               | 11    | 6    |
| (ii) Survived 28 days .. .. .   | 107   | 103  |
| (b) Born at home and nursed entirely at home ..                         | —     | 8    |
| (i) Died within 24 hours of birth .. .. .                               | —     | —    |
| (ii) Survived 28 days .. .. .   | —     | 8    |
| (c) Born at home and transferred to hospital before<br>28th day .. .. . | 4     | 2    |
| (i) Died within 24 hours of birth .. .. .                               | —     | —    |
| (ii) Survived 28 days .. .. .   | 4     | 2    |
| (d) Born in Nursing Home and nursed entirely there                      | —     | —    |
| (i) Died within 24 hours .. .. .  | —     | —    |
| (ii) Survived 28 days .. .. .   | —     | —    |

**TABLE II(b)**  
**PREMATURE STILLBIRTHS 1967-68**

| Premature Stillbirths Notified | YEARS |      |
|--------------------------------|-------|------|
|                                | 1967  | 1968 |
| (a) Born in Hospital .. .. .   | 17    | 19   |
| (b) Born at Home .. .. .       | —     | —    |

**TABLE III**  
**STILLBIRTHS AND PERINATAL MORTALITY**

| Year | Total Number of Stillbirths | Deaths in the First Week | Total Perinatal Deaths |
|------|-----------------------------|--------------------------|------------------------|
| 1959 | 29                          | 20                       | 49                     |
| 1960 | 33                          | 26                       | 59                     |
| 1961 | 32                          | 26                       | 58                     |
| 1962 | 37                          | 19                       | 56                     |
| 1963 | 31                          | 15                       | 46                     |
| 1964 | 20                          | 34                       | 54                     |
| 1965 | 29                          | 20                       | 49                     |
| 1966 | 28                          | 17                       | 45                     |
| 1967 | 28                          | 21                       | 49                     |
| 1968 | 28                          | 19                       | 47                     |

**TABLE IV**  
**STILLBIRTHS AND PERINATAL MORTALITY**

| Year | No. of Stillbirths Registered during the year per 1,000 live and Stillbirths |                 | Number of stillbirths among with the number of deaths of children under the age of one week per 1,000 live and Stillbirths registered during the same year |                 |
|------|--|-----------------|--|-----------------|
|      | Stillbirth Rate  |                 | Perinatal Mortality Rate   |                 |
|      | Halifax  | England & Wales | Halifax  | England & Wales |
| 1959 | 18.82  | 21.0            | 31.80  | 34.2            |
| 1960 | 20.06  | 19.3            | 35.87  | 32.9            |
| 1961 | 19.99  | 19.1            | 36.23  | 32.2            |
| 1962 | 21.95  | 18.1            | 33.21  | 30.8            |
| 1963 | 18.14  | 17.3            | 26.92  | 29.3            |
| 1964 | 11.2   | 16.3            | 29.9   | 28.2            |
| 1965 | 17.1   | 15.7            | 28.9   | 26.9            |
| 1966 | 16.48  | 15.4            | 26.36  | 26.3            |
| 1967 | 16.90  | 14.8            | 28.60  | 25.4            |
| 1968 | 17.04  | 14.0            | 28.60  | 25.0            |

**TABLE V**  
**INFANT MORTALITY RATES· 1959-68**

| Year | Births | HALIFAX                          |   | ENGLAND AND WALES RATE |
|------|--------|----------------------------------|---|------------------------|
|      |        | Deaths of Infants under one year | Infant Mortality Rate per 1,000 live births |                        |
| 1959 | 1,512  | 35                               | 23.2  | 22.0                   |
| 1960 | 1,612  | 52                               | 32.3  | 21.7                   |
| 1961 | 1,569  | 51                               | 32.5  | 21.6                   |
| 1962 | 1,649  | 33                               | 20.0  | 21.4                   |
| 1963 | 1,678  | 49                               | 29.2  | 20.9                   |
| 1964 | 1,752  | 58                               | 33.1  | 20.0                   |
| 1965 | 1,662  | 41                               | 24.6  | 19.0                   |
| 1966 | 1,707  | 41                               | 24.42                                       | 19.0                   |
| 1967 | 1,713  | 48                               | 28.48                                       | 18.3                   |
| 1968 | 1,643  | 47                               | 29.16                                       | 18.0                   |

## TABLES VI and VII

**NEO-NATAL AND POST NEO-NATAL MORTALITY**  
**1959-68**

| Years | Total Infant Deaths | NUMBER OF DEATHS AND MORTALITY RATE |                                      |                                     |                       |                                      |                                      |
|-------|---------------------|-------------------------------------|--------------------------------------|-------------------------------------|-----------------------|--------------------------------------|--------------------------------------|
|       |                     | Neo-Natal Period                    |                                      |                                     | Post Neo-Natal Period |                                      |                                      |
|       |                     | HALIFAX                             |                                      | ENGLAND & WALES                     | HALIFAX               |                                      | ENGLAND & WALES                      |
|       |                     | Number of Deaths                    | Mortality Rate per 1,000 Live Births | Mortality Rate per 1000 Live Births | Number of Deaths      | Mortality Rate per 1,000 Live Births | Mortality Rate per 1,000 Live Births |
| 1959  | 35                  | 21                                  | 13.90                                | 15.8                                | 14                    | 9.3                                  | 6.2                                  |
| 1960  | 52                  | 32                                  | 19.85                                | 15.6                                | 20                    | 12.4                                 | 6.3                                  |
| 1961  | 51                  | 32                                  | 20.39                                | 15.5                                | 19                    | 12.1                                 | 6.2                                  |
| 1962  | 33                  | 23                                  | 13.95                                | 15.1                                | 10                    | 6.7                                  | 6.3                                  |
| 1963  | 49                  | 22                                  | 13.11                                | 14.2                                | 27                    | 16.1                                 | 6.7                                  |
| 1964  | 58                  | 34                                  | 19.40                                | 13.8                                | 24                    | 13.0                                 | 6.2                                  |
| 1965  | 41                  | 25                                  | 15.04                                | —                                   | 16                    | 9.62                                 | —                                    |
| 1966  | 41                  | 25                                  | 14.89                                | 12.9                                | 16                    | 9.43                                 | —                                    |
| 1967  | 48                  | 35                                  | 20.77                                | 12.5                                | 13                    | 7.71                                 | —                                    |
| 1968  | 47                  | 27                                  | 16.71                                | 12.3                                | 20                    | 12.38                                | —                                    |

TABLE VIII  
INFANT MORTALITY

| Principal Causes                 | No. | Percentage of Total Deaths |       |
|----------------------------------|-----|----------------------------|-------|
|                                  |     | 1967                       | 1968  |
| * Prematurity .. .. .            | 19  | 29.17                      | 40.43 |
| Pneumonia .. .. .                | 18  | 25.00                      | 38.27 |
| Congenital Malformations .. .. . | 6   | 10.41                      | 12.80 |
| Other Conditions .. .. .         | 4   | 35.42                      | 8.50  |

\* A number of premature deaths may be recorded elsewhere as pneumonia. A number of premature infant deaths may also be included as "other conditions".

# **Analysis of Deaths of Infants aged 1 to 12 months born in Halifax during 1968**

|                   |            |                     |
|-------------------|------------|---------------------|
| TOTAL DEATHS — 21 | Males 7    | Coloured children 4 |
|                   | Females 14 | White children 17   |

## *Sub-divisions of 1968*

|           |            |            |           |
|-----------|------------|------------|-----------|
| Jan.-Mar. | April-June | July-Sept. | Oct.-Dec. |
| 7         | 6          | —          | 8         |

## *Age of Infants in Months*

|     |     |     |     |     |     |     |     |     |      |      |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|------|------|------|
| 1m. | 2m. | 3m. | 4m. | 5m. | 6m. | 7m. | 8m. | 9m. | 10m. | 11m. | 12m. |
| 4   | 2   | 5   | 3   | 3   | —   | 1   | —   | 1   | 1    | —    | 1    |

## *Place of Death*

|            |            |      |               |
|------------|------------|------|---------------|
| H.G.H.     | H.R.I.     | Home | Other         |
| 10         | 2          | 8    | 1             |
| (1 D.O.A.) | (1 D.O.A.) |      | Leeds General |

## *Cause of Death*

|   |    |    |    |    |    |    |
|---|----|----|----|----|----|----|
| Bronchopneumonia  | .. | .. | .. | .. | .. | 17 |
| (2 with accompanying congenital defect; 1 with convulsions subsidiary cause of death) |    |    |    |    |    |    |
| Leukaemia   | .. | .. | .. | .. | .. | 1  |
| Cerebral Haemorrhage  | .. | .. | .. | .. | .. | 1  |
| Asphyxia (with blocked airways due to regurgitation of food, etc.)                    | .. | .. | .. | .. | .. | 1  |
| Congenital defect   | .. | .. | .. | .. | .. | 1  |
| (a) Hydrocephalus; (b) Spina bifida; (c) Verticula defect                             |    |    |    |    |    |    |

TABLE IX  
INFANT MORTALITY DURING THE YEAR

| DEATHS FROM STATED CAUSES AT VARIOUS AGES UNDER 1 YEAR OF AGE |              |           |           |           |                     |                          |            |            |             |                           |
|---|--------------|-----------|-----------|-----------|---------------------|--------------------------|------------|------------|-------------|---------------------------|
| CAUSE OF DEATH  | AGE GROUPS   |           |           |           |                     |                          |            |            |             |                           |
|   | Under 1 week | 1-2 weeks | 2-3 weeks | 3-4 weeks | Total under 4 weeks | 1 Month & under 3 months | 3-6 months | 6-9 months | 9-12 months | Total Deaths under 1 year |
| Prematurity ..  | 5            | 1         | —         | —         | 6                   | —                        | —          | —          | —           | 6                         |
| Pneumonia, etc.   | 1            | 2         | 1         | —         | 4                   | 1                        | 10         | 1          | 2           | 18                        |
| Cong. Malformatn.   | 3            | —         | —         | —         | 3                   | 3                        | —          | —          | —           | 6                         |
| Cerebral Haem.  | —            | —         | —         | —         | —                   | 1                        | —          | —          | —           | 1                         |
| Enteritis ..  | —            | 1         | 1         | —         | 2                   | —                        | —          | —          | —           | 2                         |
| Other conditions  | 9            | 3         | —         | —         | 12                  | —                        | —          | 2          | —           | 14                        |
| TOTAL ..  | 18           | 7         | 2         | —         | 27                  | 5                        | 10         | 3          | 2           | 47                        |
|   |              |           |           |           |                     |                          |            |            |             | Deaths in Institutions    |
|   |              |           |           |           |                     |                          |            |            |             | 6                         |
|   |              |           |           |           |                     |                          |            |            |             | 12                        |
|   |              |           |           |           |                     |                          |            |            |             | 1                         |
|   |              |           |           |           |                     |                          |            |            |             | 1                         |
|   |              |           |           |           |                     |                          |            |            |             | 2                         |
|   |              |           |           |           |                     |                          |            |            |             | 12                        |
|   |              |           |           |           |                     |                          |            |            |             | 34                        |

**PREMATURE LIVE BIRTHS 1968      TABLE IXA**

| WEIGHT<br>AT<br>BIRTH                               | BORN IN HOSPITAL |                    |                             |                              | BORN AT HOME OR IN NURSING HOME |                    |                             |                              |       |                    |                             | PRE-<br>MATURE<br>STILL<br>BIRTHS |                              |
|---|------------------|--------------------|-----------------------------|------------------------------|---------------------------------|--------------------|-----------------------------|------------------------------|-------|--------------------|-----------------------------|-----------------------------------|------------------------------|
|   | Total            | DIED               |                             |                              | Total<br>Births                 | DIED               |                             |                              | Total | DIED               |                             |                                   |                              |
|   |                  | within<br>24 hours | in 1 and<br>under<br>7 days | in 7 and<br>under<br>28 days |                                 | within<br>24 hours | in 1 and<br>under<br>7 days | in 7 and<br>under<br>28 days |       | within<br>24 hours | in 1 and<br>under<br>7 days |                                   | in 7 and<br>under<br>28 days |
|   |                  |                    |                             |                              |                                 |                    |                             |                              |       |                    |                             |                                   |                              |
| 2 lb. 3 oz.<br>or less                              | 4                | 3                  | —                           | —                            | —                               | —                  | —                           | —                            | —     | —                  | —                           | —                                 | 2                            |
| Over 2 lb. 3 oz.<br>up to and incl.<br>3 lb. 4 oz.  | 11               | 2                  | 4                           | 3                            | —                               | —                  | —                           | —                            | —     | —                  | —                           | —                                 | 12                           |
| Over 3 lb. 4 oz.<br>up to and incl.<br>4 lb. 6 oz.  | 14               | —                  | 2                           | 2                            | 1                               | —                  | —                           | —                            | 1     | —                  | —                           | —                                 | 1                            |
| Over 4 lb. 6 oz.<br>up to and incl.<br>4 lb. 15 oz. | 26               | 1                  | —                           | —                            | —                               | —                  | —                           | —                            | —     | —                  | —                           | —                                 | 2                            |
| Over 4 lb. 15 oz.<br>up to and incl.<br>5 lb. 8 oz. | 67               | —                  | 1                           | 1                            | 7                               | —                  | —                           | —                            | 1     | —                  | —                           | —                                 | 2                            |
| TOTAL   | 122              | 6                  | 7                           | 6                            | 8                               | —                  | —                           | —                            | 2     | —                  | —                           | —                                 | 19                           |

TABLE X TABLE SHOWING CAUSES OF AND AGES OF DEATH

| CAUSE OF DEATH                                | Total<br>all<br>ages | Under 4<br>weeks | Under 4 wks.<br>and<br>under<br>1 yr. | AGE IN YEARS |      |       |       |       |       |       |       |                |   |   |   |
|---|----------------------|------------------|---------------------------------------|--------------|------|-------|-------|-------|-------|-------|-------|----------------|---|---|---|
|   |                      |                  |                                       | 1-4          | 5-14 | 15-24 | 25-34 | 35-44 | 45-54 | 55-64 | 65-74 | 75 and<br>over |   |   |   |
| Enteritis and other Diarrhoeal Diseases ..    | 2                    | 2                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Tuberculosis of Respiratory System ..         | 7                    | —                | —                                     | —            | —    | —     | 1     | —     | —     | —     | —     | —              | — | — | — |
| Other Tuberculosis, including late effects .. | 1                    | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Malignant Neoplasm, Stomach ..                | 30                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Lung and Bronchus ..                          | 47                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Breast ..                                     | 13                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Uterus ..                                     | 12                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Others ..                                     | 127                  | —                | —                                     | —            | 1    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Leukaemia ..                                  | 9                    | —                | 1                                     | —            | 1    | —     | 1     | —     | —     | —     | —     | —              | — | — | — |
| Benign and Unspecified Neoplasms ..           | 5                    | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Diabetes Mellitus ..                          | 11                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Avitaminoses, etc. ..                         | 1                    | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Other Endocrine, etc., Diseases ..            | 3                    | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Anaemias ..                                   | 5                    | —                | —                                     | —            | 1    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Meningitis ..                                 | 1                    | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Other Diseases of Nervous System, etc. ..     | 15                   | —                | —                                     | —            | 2    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Chronic Rheumatic Heart Disease ..            | 19                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Hypertensive Disease..                        | 15                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Ischaemic Heart Disease ..                    | 372                  | —                | —                                     | —            | —    | —     | 1     | —     | —     | —     | —     | —              | — | — | — |
| Other Forms of Heart Disease ..               | 68                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Cerebrovascular Disease ..                    | 225                  | —                | 1                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Other Diseases of Circulatory System ..       | 110                  | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Influenza ..                                  | 3                    | —                | —                                     | —            | —    | —     | 1     | —     | —     | —     | —     | —              | — | — | — |
| Pneumonia ..                                  | 90                   | 4                | 14                                    | 2            | —    | —     | 2     | —     | —     | —     | —     | —              | — | — | — |
| Bronchitis and Emphysema ..                   | 65                   | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |
| Asthma ..                                     | 2                    | —                | —                                     | —            | —    | —     | —     | —     | —     | —     | —     | —              | — | — | — |



**TABLE XI**  
**DEATH RATES, 1959-68**

| Year | HALIFAX             |                                       | ENGLAND<br>and<br>WALES |
|------|---------------------|---------------------------------------|-------------------------|
|      | Number of<br>Deaths | Death Rate per<br>1,000<br>Population |                         |
| 1959 | 1,400               | 14.7                                  | 11.6                    |
| 1960 | 1,371               | 14.4                                  | 11.5                    |
| 1961 | 1,534               | 16.0                                  | 12.0                    |
| 1962 | 1,422               | 14.8                                  | 11.9                    |
| 1963 | 1,587               | 16.6                                  | 12.2                    |
| 1964 | 1,379               | 14.4                                  | 11.3                    |
| 1965 | 1,421               | 14.9                                  | 11.5                    |
| 1966 | 1,475               | 15.53                                 | 11.7                    |
| 1967 | 1,319               | 13.91                                 | 12.2                    |
| 1968 | 1,381               | 14.64                                 | 11.9                    |

**TABLE XII**  
**CANCER DEATHS, 1959-68**

| Years | Number<br>of<br>Cancer<br>Deaths | Males | Females | Death Rate<br>Per 1,000<br>Population | Deaths<br>from all<br>Causes | Per-<br>centage<br>of total<br>Deaths |
|-------|----------------------------------|-------|---------|---------------------------------------|------------------------------|---------------------------------------|
| 1959  | 234                              | 120   | 114     | 2.46                                  | 1,400                        | 16.71                                 |
| 1960  | 209                              | 103   | 106     | 2.20                                  | 1,371                        | 15.24                                 |
| 1961  | 252                              | 127   | 125     | 2.63                                  | 1,534                        | 16.43                                 |
| 1962  | 235                              | 112   | 123     | 2.44                                  | 1,422                        | 16.53                                 |
| 1963  | 256                              | 140   | 116     | 2.67                                  | 1,587                        | 16.13                                 |
| 1964  | 217                              | 107   | 110     | 2.27                                  | 1,379                        | 15.73                                 |
| 1965  | 247                              | 139   | 108     | 2.59                                  | 1,421                        | 17.38                                 |
| 1966  | 242                              | 138   | 104     | 2.44                                  | 1,475                        | 16.51                                 |
| 1967  | 241                              | 129   | 112     | 2.54                                  | 1,319                        | 18.27                                 |
| 1968  | 229                              | 127   | 102     | 2.42                                  | 1,381                        | 15.85                                 |

**TABLE XIII**  
**CANCER DEATHS—PARTS OF BODY AFFECTED**

| Parts<br>Affected       | Age | Under 25 |    | 25-44 |    | 45-64 |    | 65-74 |    | 75 &<br>Over |    | Totals |     | Totals |     |
|-------------------------|-----|----------|----|-------|----|-------|----|-------|----|--------------|----|--------|-----|--------|-----|
|                         | Sex | M.       | F. | M.    | F. | M.    | F. | M.    | F. | M.           | F. | 1967   |     | 1968   |     |
|                         |     |          |    |       |    |       |    |       |    |              |    | M.     | F.  | M.     | F.  |
|                         |     |          |    |       |    |       |    |       |    |              |    |        |     |        |     |
| Stomach ..              | —   | —        | —  | —     | 1  | 2     | 1  | 9     | 7  | 4            | 6  | 19     | 17  | 15     | 15  |
| Lung and<br>Bronchus .. | —   | —        | —  | —     | —  | 17    | —  | 19    | 1  | 8            | 2  | 55     | 10  | 44     | 3   |
| Breast .. ..            | —   | —        | —  | —     | —  | —     | 6  | —     | 4  | —            | 3  | —      | 20  | —      | 13  |
| Uterus .. ..            | —   | —        | —  | —     | 1  | —     | 4  | —     | 2  | —            | 5  | —      | 15  | —      | 12  |
| Other .. ..             | —   | 1        | —  | 3     | 1  | 16    | 23 | 18    | 31 | 18           | 16 | 55     | 50  | 56     | 71  |
| TOTALS .. ..            | —   | 1        | —  | 3     | 3  | 35    | 34 | 46    | 45 | 30           | 32 | 129    | 112 | 115    | 114 |

**TABLE XIV—CORONARY DISEASE, ANGINA**

| Years | Number of<br>Coronary<br>Deaths | M.  | F.  | Death Rate<br>per 1,000<br>Population | Deaths from<br>All Causes | Percentage<br>of Total<br>Deaths |
|-------|---------------------------------|-----|-----|---------------------------------------|---------------------------|----------------------------------|
| 1959  | 321                             | 178 | 143 | 3.38                                  | 1,400                     | 22.93                            |
| 1960  | 331                             | 185 | 146 | 3.49                                  | 1,371                     | 24.14                            |
| 1961  | 403                             | 242 | 161 | 4.20                                  | 1,534                     | 26.27                            |
| 1962  | 351                             | 179 | 172 | 3.65                                  | 1,422                     | 24.68                            |
| 1963  | 340                             | 204 | 186 | 4.07                                  | 1,587                     | 24.57                            |
| 1964  | 394                             | 218 | 176 | 3.73                                  | 1,379                     | 21.32                            |
| 1965  | 401                             | 200 | 201 | 4.21                                  | 1,421                     | 28.22                            |
| 1966  | 376                             | 200 | 176 | 3.95                                  | 1,475                     | 25.2                             |
| 1967  | 346                             | 179 | 167 | 3.65                                  | 1,319                     | 26.23                            |
| 1968  | 372                             | 202 | 170 | 3.94                                  | 1,381                     | 26.93                            |

**TABLE XV—OTHER HEART DISEASES**

| Years | Number of<br>Deaths | M. | F.  | Death Rate<br>per 1,000<br>Population | Deaths from<br>All Causes | Percentage<br>of Total<br>Deaths |
|-------|---------------------|----|-----|---------------------------------------|---------------------------|----------------------------------|
| 1959  | 191                 | 83 | 138 | 2.01                                  | 1,400                     | 13.64                            |
| 1960  | 185                 | 78 | 113 | 1.95                                  | 1,371                     | 13.49                            |
| 1961  | 164                 | 77 | 108 | 1.71                                  | 1,534                     | 10.69                            |
| 1962  | 169                 | 61 | 103 | 1.76                                  | 1,422                     | 11.88                            |
| 1963  | 136                 | 67 | 102 | 1.42                                  | 1,587                     | 8.57                             |
| 1964  | 128                 | 38 | 98  | 1.34                                  | 1,379                     | 10.79                            |
| 1965  | 114                 | 42 | 86  | 1.19                                  | 1,421                     | 8.02                             |
| 1966  | 151                 | 37 | 77  | 1.60                                  | 1,475                     | 10.23                            |
| 1967  | 75                  | 31 | 44  | 0.79                                  | 1,319                     | 5.68                             |
| 1968  | 68                  | 26 | 42  | 0.72                                  | 1,381                     | 4.92                             |

**TABLE XVI—VASCULAR LESIONS OF NERVOUS SYSTEM**

| Years | Number of<br>Deaths | M.  | F.  | Death Rate<br>per 1,000<br>Population | Deaths from<br>All Causes | Percentage<br>of Total<br>Deaths |
|-------|---------------------|-----|-----|---------------------------------------|---------------------------|----------------------------------|
| 1959  | 207                 | 91  | 116 | 2.18                                  | 1,400                     | 14.78                            |
| 1960  | 218                 | 84  | 134 | 2.30                                  | 1,371                     | 15.90                            |
| 1961  | 231                 | 90  | 141 | 2.41                                  | 1,534                     | 15.06                            |
| 1962  | 211                 | 76  | 135 | 2.19                                  | 1,422                     | 14.87                            |
| 1963  | 241                 | 80  | 161 | 2.51                                  | 1,587                     | 15.18                            |
| 1964  | 201                 | 67  | 134 | 2.15                                  | 1,379                     | 14.50                            |
| 1965  | 250                 | 97  | 153 | 2.62                                  | 1,421                     | 17.50                            |
| 1966  | 259                 | 110 | 149 | 2.72                                  | 1,475                     | 17.56                            |
| 1967  | 250                 | 104 | 146 | 2.53                                  | 1,319                     | 18.95                            |
| 1968  | 225                 | 72  | 153 | 2.38                                  | 1,381                     | 17.07                            |

**TABLE XVII  
DEATHS FROM PRINCIPAL CAUSES IN AGE GROUPS**

| CAUSE                         | Age<br>Sex | Under<br>25 |    | 25-44 |    | 45-64 |    | 65-74 |     | 75 and<br>over |     | Totals<br>1967 |     | Totals<br>1968 |     |
|-------------------------------|------------|-------------|----|-------|----|-------|----|-------|-----|----------------|-----|----------------|-----|----------------|-----|
|                               |            | M.          | F. | M.    | F. | M.    | F. | M.    | F.  | M.             | F.  | M.             | F.  | M.             | F.  |
| Coronary .. ..                | —          | —           | —  | 4     | —  | 79    | 19 | 56    | 40  | 63             | 111 | 179            | 167 | 202            | 170 |
| Other Heart<br>Diseases .. .. | —          | —           | —  | —     | —  | 7     | 3  | 8     | 4   | 11             | 35  | 31             | 44  | 26             | 42  |
| Cerebral<br>Haemorrhage ..    | —          | —           | 1  | —     | 1  | 26    | 12 | 22    | 39  | 23             | 101 | 104            | 146 | 72             | 153 |
| Cancer .. ..                  | —          | 1           | —  | 2     | 3  | 33    | 33 | 46    | 45  | 30             | 31  | 129            | 112 | 112            | 112 |
| TOTALS                        | —          | 1           | 1  | 6     | 4  | 145   | 67 | 132   | 128 | 127            | 278 | 443            | 469 | 412            | 477 |

TABLE XVIII

| Year | Birth Rate<br>per<br>1,000<br>Total<br>Popula-<br>tion | Annual Death Rate per 1,000 Population |                             |           |                   |            |           | Rate per 1,000<br>Births                      |                        |
|------|--|--|-----------------------------|-----------|-------------------|------------|-----------|---|------------------------|
|      |  | ALL CAUSES                             | Typhoid and<br>Para-Typhoid | Small-Pox | Whooping<br>Cough | Diphtheria | Influenza | Diarrhoea and<br>Enteritis<br>(under 2 years) | DEATH:<br>Under 1 year |
| 1968 | 16.9   | 11.9                                   | *                           | *         | *                 | *          | *         | *   | 18.0                   |
| 1958 | 16.00  | 14.93                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.02      | 0.0   | 27.56                  |
| 1959 | 15.92  | 14.74                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.25      | 0.0   | 23.15                  |
| 1960 | 16.99  | 14.45                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.01      | 1.2   | 32.36                  |
| 1961 | 16.35  | 15.98                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.22      | 1.3   | 32.50                  |
| 1962 | 17.13  | 14.77                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.01      | 0.6   | 20.01                  |
| 1963 | 17.51  | 16.55                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.06      | 0.6   | 29.20                  |
| 1964 | 18.35  | 14.40                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.00      | 1.1   | 33.10                  |
| 1965 | 17.57  | 14.94                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.00      | 0.0   | 24.6                   |
| 1966 | 17.68  | 15.53                                  | 0.00                        | 0.00      | 0.01              | 0.00       | 0.00      | 0.0   | 24.1                   |
| 1967 | 17.80  | 13.91                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.00      | 0.0   | 28.42                  |
| 1968 | 17.10  | 13.58                                  | 0.00                        | 0.00      | 0.00              | 0.00       | 0.03      | 1.2   | 29.16                  |

England and Wales

HALIFAX ..

TABLE XIX

## VITAL AND MORTALITY STATISTICS FOR HALIFAX DURING THE LAST 21 YEARS

| Year | Death Rate | Infant Mortality Rate | Maternal Mortality Rate | Tuberculosis (all forms) |        | Diphtheria |        | Scarlet Fever |        | Typhoid and Para-typhoid |        | Cerebro Spinal Fever |        | Poliomyelitis |        |
|------|------------|-----------------------|-------------------------|--------------------------|--------|------------|--------|---------------|--------|--------------------------|--------|----------------------|--------|---------------|--------|
|      |            |                       |                         | New Cases                | Deaths | New Cases  | Deaths | New Cases     | Deaths | New Cases                | Deaths | New Cases            | Deaths | New Cases     | Deaths |
| 1948 | 13.8       | 29                    | 0.58                    | 61                       | 32     | 9          | nil    | 161           | nil    | *1                       | 1      | 2                    | nil    | 1             | 1      |
| 1949 | 15.4       | 33                    | 0.50                    | 77                       | 32     | 8          | nil    | 222           | nil    | nil                      | nil    | 1                    | 1      | 7             | 1      |
| 1950 | 14.8       | 39                    | 1.23                    | 85                       | 29     | 1          | nil    | 293           | nil    | 3                        | nil    | nil                  | nil    | 3             | nil    |
| 1951 | 15.2       | 28                    | 0.00                    | 179                      | 30     | nil        | nil    | 123           | nil    | 15                       | nil    | nil                  | nil    | 10            | nil    |
| 1952 | 14.1       | 27                    | 0.69                    | 107                      | 19     | nil        | nil    | 191           | nil    | 2                        | nil    | nil                  | nil    | 2             | nil    |
| 1953 | 15.2       | 30                    | 0.00                    | 122                      | 22     | nil        | nil    | 88            | nil    | 3                        | nil    | 1                    | nil    | 3             | nil    |
| 1954 | 15.0       | 33.05                 | 1.38                    | 121                      | 19     | nil        | nil    | 90            | nil    | nil                      | nil    | nil                  | nil    | 2             | nil    |
| 1955 | 15.7       | 21.69                 | 0.70                    | 105                      | 16     | nil        | nil    | 215           | nil    | 1                        | nil    | nil                  | nil    | 2             | nil    |
| 1956 | 15.5       | 23.98                 | 0.63                    | 82                       | 13     | nil        | nil    | 150           | nil    | 2                        | nil    | nil                  | nil    | 4             | nil    |
| 1957 | 15.5       | 18.65                 | 0.65                    | 82                       | 14     | nil        | nil    | 32            | nil    | 4                        | nil    | nil                  | nil    | 3             | nil    |
| 1958 | 14.9       | 27.56                 | 0.65                    | 56                       | 12     | nil        | nil    | 52            | nil    | nil                      | nil    | nil                  | nil    | 2             | nil    |
| 1959 | 14.7       | 23.15                 | 0.00                    | 45                       | 6      | nil        | nil    | 123           | nil    | nil                      | nil    | nil                  | nil    | 33            | 2      |
| 1960 | 14.4       | 32.26                 | 0.61                    | 48                       | 12     | nil        | nil    | 32            | nil    | 1                        | nil    | nil                  | nil    | nil           | nil    |
| 1961 | 16.0       | 32.50                 | 0.00                    | 48                       | 13     | nil        | nil    | 8             | nil    | 1                        | nil    | nil                  | nil    | nil           | nil    |
| 1962 | 14.8       | 20.01                 | 0.00                    | 80                       | 8      | nil        | nil    | 7             | nil    | 1                        | nil    | nil                  | nil    | 3             | nil    |
| 1963 | 16.6       | 29.20                 | 0.00                    | 63                       | 6      | 2          | nil    | 15            | nil    | nil                      | nil    | nil                  | nil    | nil           | nil    |
| 1964 | 14.4       | 33.10                 | 0.00                    | 59                       | 8      | nil        | nil    | 12            | nil    | nil                      | nil    | nil                  | nil    | nil           | nil    |
| 1965 | 14.9       | 24.60                 | 0.00                    | 68                       | 11     | nil        | nil    | 63            | nil    | nil                      | nil    | nil                  | nil    | nil           | nil    |
| 1966 | 15.5       | 24.42                 | 0.00                    | 51                       | 8      | 1          | nil    | 23            | nil    | 3                        | nil    | nil                  | nil    | nil           | nil    |
| 1967 | 13.9       | 28.42                 | 0.00                    | 48                       | 12     | nil        | nil    | 26            | nil    | nil                      | nil    | nil                  | nil    | nil           | nil    |
| 1968 | 14.6       | 29.16                 | 0.00                    | 38                       | 8      | nil        | nil    | 15            | nil    | nil                      | nil    | nil                  | nil    | 1             | nil    |

\*Transferred

TABLE XIX  
VITAL AND MORTALITY STATISTICS FOR HALIFAX DURING THE LAST 21 YEARS  
(continued)

| Year | Pneumonia |        | Whooping Cough |        | Smallpox  |        | Cancer Deaths | Heart Diseases Deaths | Cerebral Haemorrhage Deaths |
|------|-----------|--------|----------------|--------|-----------|--------|---------------|-----------------------|-----------------------------|
|      | New Cases | Deaths | New Cases      | Deaths | New Cases | Deaths |               |                       |                             |
| 1948 | 62        | 39     | 295            | 1      | nil       | nil    | 206           | 415                   | 213                         |
| 1949 | 85        | 71     | 92             | 1      | nil       | nil    | 241           | 471                   | 203                         |
| 1950 | 59        | 43     | 374            | 1      | nil       | nil    | 239           | 505                   | 208                         |
| 1951 | 73        | 49     | 145            | nil    | nil       | nil    | 211           | 468                   | 231                         |
| 1952 | 41        | 30     | 153            | nil    | nil       | nil    | 230           | 454                   | 238                         |
| 1953 | 54        | 65     | 154            | nil    | 4         | nil    | 261           | 451                   | 239                         |
| 1954 | 23        | 46     | 72             | nil    | nil       | nil    | 244           | 499                   | 238                         |
| 1955 | 80        | 38     | 111            | nil    | nil       | nil    | 253           | 520                   | 282                         |
| 1956 | 71        | 56     | 152            | nil    | nil       | nil    | 214           | 519                   | 316                         |
| 1957 | 34        | 67     | 70             | nil    | nil       | nil    | 252           | 509                   | 254                         |
| 1958 | 36        | 61     | 37             | nil    | nil       | nil    | 236           | 534                   | 238                         |
| 1959 | 23        | 80     | 47             | nil    | nil       | nil    | 234           | 512                   | 207                         |
| 1960 | 8         | 73     | 43             | nil    | nil       | nil    | 209           | 516                   | 217                         |
| 1961 | 15        | 83     | 30             | nil    | nil       | nil    | 252           | 567                   | 231                         |
| 1962 | 13        | 87     | 6              | nil    | nil       | nil    | 235           | 520                   | 211                         |
| 1963 | 11        | 129    | 8              | nil    | nil       | nil    | 256           | 526                   | 241                         |
| 1964 | 6         | 89     | 1              | nil    | nil       | nil    | 217           | 522                   | 201                         |
| 1965 | 2         | 39     | 6              | nil    | nil       | nil    | 247           | 515                   | 250                         |
| 1966 | 15        | 87     | 42             | nil    | nil       | nil    | 242           | 535                   | 259                         |
| 1967 | 2         | 75     | 18             | nil    | nil       | nil    | 241           | 425                   | 250                         |
| 1968 | 1         | 90     | 10             | nil    | nil       | nil    | 229           | 440                   | 225                         |

TABLE XX TABLE SHOWING COMPARATIVE YEARLY VITAL AND MORTALITY STATISTICS FROM 1958 TO 1968 INCLUSIVE

| Year | Birth-Rate | Death-rate | Infant Mortality Rate | Maternal Mortality Rate | Pulmonary Tuberculosis |            | Venereal Diseases |            | Pneumonia |        |
|------|------------|------------|-----------------------|-------------------------|------------------------|------------|-------------------|------------|-----------|--------|
|      |            |            |                       |                         | New Cases              | Death-rate | Syphilis          | Gonorrhoea | New Cases | Deaths |
| 1958 | 16.00      | 14.9       | 27.56                 | 0.65                    | 52                     | .12        | 12                | 10         | 36        | 61     |
| 1959 | 15.92      | 14.7       | 23.15                 | 0.00                    | 39                     | .06        | 10                | 18         | 23        | 80     |
| 1960 | 16.99      | 14.4       | 32.26                 | 0.61                    | 47                     | .13        | 10                | 24         | 8         | 73     |
| 1961 | 16.35      | 16.0       | 32.50                 | 0.00                    | 46                     | .12        | 11                | 39         | 15        | 83     |
| 1962 | 17.13      | 14.8       | 20.01                 | 0.00                    | 70                     | .06        | 8                 | 30         | 13        | 87     |
| 1963 | 17.51      | 16.6       | 29.20                 | 0.00                    | 58                     | .06        | 2                 | 60         | 11        | 129    |
| 1964 | 18.35      | 14.4       | 33.10                 | 0.00                    | 59                     | .06        | 12                | 92         | 6         | 89     |
| 1965 | 17.57      | 14.94      | 24.6                  | 0.00                    | 68                     | .11        | 18                | 104        | 2         | 39     |
| 1966 | 17.68      | 15.53      | 24.42                 | 0.00                    | 57                     | .08        | 9                 | 72         | 15        | 87     |
| 1967 | 17.80      | 13.90      | 28.42                 | 0.00                    | 41                     | .11        | 6                 | 98         | 2         | 75     |
| 1968 | 17.10      | 14.64      | 29.16                 | 0.00                    | 30                     | .08        | 4                 | 95         | 1         | 90     |

| Year | Deaths from Heart Disease | Deaths from Cancer | Deaths from Cerebral Haemorrhage | Deaths from Diabetes | Diphtheria |        | Scarlet Fever |        |
|------|---------------------------|--------------------|----------------------------------|----------------------|------------|--------|---------------|--------|
|      |                           |                    |                                  |                      | New Cases  | Deaths | New Cases     | Deaths |
| 1958 | 534                       | 236                | 238                              | 6                    | nil        | nil    | 52            | nil    |
| 1959 | 512                       | 234                | 207                              | 12                   | nil        | nil    | 123           | nil    |
| 1960 | 516                       | 209                | 18                               | 12                   | nil        | nil    | 32            | nil    |
| 1961 | 567                       | 252                | 231                              | 12                   | nil        | nil    | 8             | nil    |
| 1962 | 520                       | 235                | 211                              | 13                   | nil        | nil    | 7             | nil    |
| 1963 | 526                       | 256                | 241                              | 7                    | 2          | nil    | 15            | nil    |
| 1964 | 522                       | 217                | 201                              | 13                   | nil        | nil    | 12            | nil    |
| 1965 | 515                       | 247                | 250                              | 12                   | nil        | nil    | 63            | nil    |
| 1966 | 535                       | 242                | 259                              | 16                   | 1          | nil    | 63            | nil    |
| 1967 | 425                       | 241                | 250                              | 10                   | nil        | nil    | 26            | nil    |
| 1968 | 440                       | 229                | 225                              | 11                   | nil        | nil    | 15            | nil    |

## HOME SAFETY

In February, 1968, responsibility for Home Safety was assumed by the local authority on the winding up of the former voluntary Home Safety Committee. Since then the authority has been represented at the quarterly meetings of the Northern Region Committee of the Royal Society for the Prevention of Accidents, and Home Safety education has been pursued by members of the departmental staff in conjunction with the specific campaigns which the R.S.P.A. has organised, such as campaigns on home accidents, burning and scalds and water safety.

In addition a booklet, the Halifax Guide to Safe Living, has been produced and distributed free of charge. All home accidents are followed up by the Health Visitors, who advise upon preventable factors which can be dealt with and which can contribute towards an accident.

Publicity materials, posters, pamphlets, etc., have been distributed in clinics. There have been no highly unusual accidents during 1968, and it would seem that once more the "at risk group" are children of 0 to 5 years. This is easily understandable, as each generation of growing children is freshly experienced to all the hazards of the world about them, and it is inevitable that some of them experiment with dangerous situations and dangerous results ensue.

The taking of poisonous substances has accounted once more for 61 cases, 55 of them in children under 5. It cannot be too strongly stressed that parents should lock up medicine boxes and cupboards containing domestic cleaners and the like. Burns and scalds account for 66 cases under the age of 5 years. The use of fire guards and pan guards on ovens would truly reduce this number.

The Annual Safety Meeting was organised in October, at which the main speaker was Mr. Gerald Goodman, former Chief Constable of Halifax.

TABLE XXI

## HOME ACCIDENTS

| 1968<br>Month | Age Group—Years |      |       |       |       |           | Total |
|---------------|-----------------|------|-------|-------|-------|-----------|-------|
|               | 0-5             | 6-15 | 16-25 | 26-50 | 51-60 | 61 & Over |       |
| January       | 27              | 5    | 4     | 6     | 4     | 6         | 52    |
| February      | 12              | 4    | 5     | 7     | 1     | 4         | 33    |
| March         | 15              | 4    | 3     | 4     | 2     | 3         | 31    |
| April         | 15              | 7    | 3     | 11    | 4     | 9         | 49    |
| May           | 20              | 5    | 6     | 5     | 2     | 6         | 44    |
| June          | 13              | 6    | 2     | 2     | 2     | 1         | 26    |
| July          | 12              | 4    | 6     | 4     | 2     | 4         | 32    |
| August        | 18              | —    | 3     | 10    | 2     | 2         | 35    |
| September     | 24              | 3    | 1     | 7     | —     | 5         | 40    |
| October       | 15              | 3    | 2     | 4     | 4     | 4         | 32    |
| November      | 17              | 8    | 1     | 5     | 2     | 5         | 38    |
| December      | 18              | 2    | 2     | 4     | 6     | 2         | 34    |
| Totals        | 206             | 51   | 38    | 69    | 31    | 51        | 446   |

| Injuries   | Age Groups—Years |      |       |       |       |           | Total |
|------------|------------------|------|-------|-------|-------|-----------|-------|
|            | 0-5              | 6-15 | 16-25 | 26-50 | 51-60 | 61 & Over |       |
| Head       | 24               | 6    | 2     | 3     | 4     | 12        | 51    |
| Upper Limb | 16               | 11   | 10    | 25    | 6     | 10        | 78    |
| Lower Limb | 11               | 4    | 5     | 16    | 8     | 15        | 59    |
| Cuts       | 15               | 6    | 4     | 11    | 4     | 3         | 43    |
| Swallowed  | 55               | 6    | —     | —     | —     | —         | 61    |
| Burns      | 30               | 8    | 3     | 4     | 2     | 1         | 48    |
| Scalds     | 36               | 7    | 7     | —     | 3     | 2         | 55    |
| Back       | —                | 1    | 3     | 4     | 1     | 2         | 11    |
| Miscellan. | 19               | 2    | 4     | 6     | 3     | 6         | 40    |
|            | 206              | 51   | 38    | 69    | 31    | 51        | 446   |

As will be noted by the above table, the largest group is again the small children. burns, scalds and swallowed objects being the chief cause of their visit to hospital. Swallowed objects are probably the most dangerous and range from perfume, boot polish, window polishing substance, slug-killer, diesel oil, hair dye and Ajax cleaning powder, besides the more normal things such as junior aspirin, fersolate tablets and contraceptive tablets.

The older age group sustain injuries of a fairly severe nature, quite often proving fatal to those over 70 due to some other cause. It is a very difficult problem knowing how to re-educate old people into pre-thinking the results of their actions in the home, which might result in accident. Some of the accidents are quite trivial but the result is catastrophic.

#### ROAD ACCIDENTS

The number of road accidents reported to the police was 1,479, and 12 deaths were attributed to such accidents.

The following table portrays a comparative setting of the number of fatal accidents over the past ten years:—

TABLE XXII

| Police Report                                    | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|--|------|------|------|------|------|------|------|------|------|------|
|  | 9    | 10   | 14   | 12   | 22   | 18   | 11   | 24   | 12   | 12   |
| R.G.'s Report<br>(after transfer<br>adjustments) | 9    | 15   | 21   | 11   | 15   | 23   | 17   | 13   | 22   | 10   |

Road Safety activities are keen, and Child Welfare Centres have had visits by police officers during the year for this purpose.

#### SICKNESS CERTIFICATES

The figures shown represent the number of first sickness certificates submitted to the local insurance office by the working population in Halifax:—

TABLE XXIII 1967/68

|         | 1968 | 1967 |        | 1968 | 1967 |         | 1968 | 1967 |
|---------|------|------|--------|------|------|---------|------|------|
| Jan. 4  | 517  | 440  | May 7  | 431  | 474  | Sept. 5 | 398  | 419  |
| 11      | 890  | 620  | 14     | 398  | 419  | 12      | 446  | 350  |
| 18      | 887  | 614  | 21     | 424  | 425  | 19      | 395  | 467  |
| 23      | 790  | 563  | 28     | 467  | 312  | 26      | 372  | 516  |
| 30      | 798  | 504  | June 4 | 314  | 430  | Oct. 3  | 458  | 500  |
| Feb. 6  | 633  | 469  | 11     | 388  | 399  | 10      | 557  | 537  |
| 13      | 710  | 538  | 18     | 426  | 374  | 17      | 493  | 461  |
| 20      | 585  | 534  | 25     | 371  | 407  | 24      | 591  | 492  |
| 27      | 629  | 480  | July 2 | 405  | 345  | 31      | 566  | 460  |
| Mar. 5  | 660  | 535  | 9      | 360  | 335  | Nov. 7  | 585  | 436  |
| 12      | 681  | 444  | 16     | 343  | 253  | 14      | 575  | 481  |
| 19      | 595  | 419  | 23     | 267  | 299  | 21      | 525  | 455  |
| 26      | 543  | 304  | 30     | 286  | 354  | 28      | 560  | 463  |
| April 2 | 473  | 396  | Aug. 8 | 387  | 371  | Dec. 5  | 506  | 514  |
| 9       | 452  | 426  | 15     | 379  | 335  | 12      | 539  | 440  |
| 16      | 266  | 440  | 22     | 377  | 382  | 20      | 460  | 412  |
| 23      | 489  | 476  | 29     | 390  | 396  | 24      | 467  | 516  |
| 30      | 485  | 447  |        |      |      | 31      | 466  |      |

TABLE XXIV

## ASSESSMENT OF PREVALENCE (TUBERCULOSIS)

|  | PULMONARY |        | NON-PULMONARY |        | TOTAL |
|--|-----------|--------|---------------|--------|-------|
|  | Male      | Female | Male          | Female |       |
| No. of cases on Register of Notification at 1st January 1968 .. .. .         | 333       | 185    | 26            | 15     | 559   |
| No. of cases notified for the first time during the year ..                  | 21        | 11     | 5             | 1      | 38    |
| No. of cases transferred from other districts .. .. .                        | 7         | 3      | 1             | —      | 11    |
| Totals   | 361       | 199    | 32            | 16     | 608   |
| No. of cases removed from the Register during the year on account of having: |           |        |               |        |       |
| (a) Recovered .. .. .  | 17        | 19     | 1             | 2      | 39    |
| (b) Removed from the district. .. .. .                                       | 7         | 2      | 9             | —      | 18    |
| (c) Deceased .. .. .   | 10        | 6      | —             | —      | 16    |
| (d) Lost sight of .. .. .  | 7         | 3      | 4             | —      | 14    |
| Totals   | 41        | 30     | 14            | 2      | 87    |
| No. of cases remaining on the at 1st December 1968 ..                        | 320       | 169    | 18            | 14     | 521   |

Total Respiratory Cases of 489 on Register at 31st December, 1968, represents a prevalence rate of 5.1 per thousand of the population, as compared with 5.42 at the end of 1967.

Based on 94,770 population.



TABLE XXVI

TABLE SHOWING EMPLOYMENT OF  
MENTALLY SUBNORMAL PERSONS

|         |    | In Normal<br>Employment |             | Attending<br>Training Centre |             | Not<br>Occupied |             | Total |
|---------|----|-------------------------|-------------|------------------------------|-------------|-----------------|-------------|-------|
|         |    | <i>No.</i>              | <i>%age</i> | <i>No.</i>                   | <i>%age</i> | <i>No.</i>      | <i>%age</i> |       |
| Males   | .. | 59                      | 62·8        | 22                           | 23·4        | 13              | 13·8        | 94    |
| Females | .. | 43                      | 55·1        | 19                           | 24·4        | 16              | 20·5        | 78    |
| TOTALS  |    | 102                     | 59·3        | 41                           | 23·9        | 29              | 16·8        | 172   |

TABLE XXVII

The following Table shows in ages and sexes the cases of MENTAL ILLNESS referred during 1968 with comparative figures for the years 1956, 1959 and 1966, 1967

## AGE GROUPS

|            | Under 21 |       | 21-30 |       | 31-40 |       | 41-50 |       | 51-60 |       | 61-70 |       | Over 70 |       | Total |      |
|------------|----------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---------|-------|-------|------|
|            | No.      | %age  | No.   | %age  | No.   | %age  | No.   | %age  | No.   | %age  | No.   | %age  | No.     | %age  | No.   | %age |
| 1956       |          |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
| Males ..   | —        | —     | 14    | 11.47 | 36    | 29.50 | 25    | 20.49 | 16    | 13.03 | 20    | 16.49 | 11      | 9.02  | 122   |      |
| Females .. | 4        | 1.91  | 23    | 15.29 | 33    | 21.66 | 24    | 15.29 | 29    | 17.83 | 21    | 13.37 | 23      | 14.65 | 157   |      |
| 1959       |          |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
| Males ..   | 5        | 3.23  | 26    | 16.77 | 38    | 24.52 | 28    | 18.06 | 18    | 11.61 | 25    | 16.13 | 15      | 9.68  | 155   |      |
| Females .. | 6        | 2.32  | 39    | 15.06 | 78    | 30.11 | 44    | 16.99 | 37    | 14.29 | 25    | 9.65  | 30      | 11.58 | 259   |      |
| 1966       |          |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
| Males ..   | 61       | 11.43 | 127   | 23.57 | 104   | 19.28 | 112   | 20.71 | 73    | 13.57 | 31    | 5.72  | 31      | 5.72  | 539   |      |
| Females .. | 77       | 10.53 | 175   | 23.69 | 128   | 17.37 | 135   | 18.42 | 89    | 12.11 | 74    | 10.00 | 58      | 7.88  | 736   |      |
| 1967       |          |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
| Males ..   | 61       | 10.25 | 145   | 24.46 | 128   | 21.58 | 113   | 19.06 | 88    | 14.75 | 41    | 6.83  | 18      | 3.07  | 594   |      |
| Females .. | 83       | 9.93  | 173   | 20.66 | 180   | 21.54 | 157   | 18.77 | 120   | 14.36 | 69    | 8.31  | 54      | 6.43  | 836   |      |
| 1968       |          |       |       |       |       |       |       |       |       |       |       |       |         |       |       |      |
| Males ..   | 41       | 6.96  | 127   | 21.56 | 132   | 22.41 | 140   | 23.77 | 87    | 14.77 | 48    | 8.15  | 14      | 2.38  | 589   |      |
| Females .. | 94       | 11.15 | 174   | 20.64 | 161   | 19.09 | 165   | 19.58 | 145   | 17.20 | 76    | 9.02  | 28      | 3.32  | 843   |      |

## SECTION II

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### SICKNESS AND DISABILITY

COMMUNITY CARE

INFECTION

VENEREAL DISEASE

TUBERCULOSIS

AGED PERSONS

MENTAL ILLNESS

PHYSICAL HANDICAPS

HOME HELPS

## SICKNESS AND DISABILITY

In this section of the Annual Report there is described the follow-up of cases coming to the notice of the Department either by statutory notification (infectious disease) or from informal notices by hospitals, voluntary societies, etc. (sickness, disability, handicap). Special nurses who are part of the Health Visitor establishment visit the Homes and the number of visits have increased in 1968 as a result of new arrangements whereby ward sisters inform the Superintendent Nursing Officer of cases where after-care is requested.

TABLE I  
SPECIAL VISITS TO THE HOME 1967-68

|                  |      | Aged<br>Persons | Tuber-<br>culosis | Diabetes | Mental Disorder   |                   |                   |
|------------------|------|-----------------|-------------------|----------|-------------------|-------------------|-------------------|
|                  |      |                 |                   |          | Mental<br>Illness | Subnor-<br>mality | Child<br>Guidance |
| 1st Visit        | 1968 | 369             | 50                | 346      | 918               | 20                | 146               |
| 1967 .. ..       | ..   | 305             | 66                | 217      | 355               | 12                | 132               |
| Follow-up Visits | 1968 | 6,778           | 1,495             | 8,665    | 2,525             | 636               | 952               |
| 1967 .. ..       | ..   | 3,858           | 1,482             | 6,840    | 2,699             | 882               | 991               |

## COMMUNITY CARE

The problem of the increasing number of old folk in the town is already causing disquiet to all the social agencies concerned with helping them. It is unlikely that the medical care that all have enjoyed for the past 20 years has reduced the morbidity of the elderly to any great extent, but it has increased the number at risk. Many problems are present, and the solutions are difficult and costly.

Many old people have no surviving families or their families no longer live near, and often the rehousing which is taking place in new areas means that social support is being disrupted. It seems that people about to be moved have not realised the extent of their mutual inter-dependence with their neighbours. Ways to deal with this problem are difficult and time-consuming; rehousing of social units rather than individual persons has been tried ineffectively.

The support of the elderly sick when confined to bed sometimes approaches the impossible. On five days of the week there is support from the Home Helps but District Nurses only have to bear the load at the weekend; the time may be upon us when extensions of these services to cover Saturdays and Sundays and during the night may have to be considered.

There is, in addition, the intention of the Regional Hospital Board to provide convalescence and/or long-term care on a daily basis. This will be instituted more extensively when the new unit is opened at Northowram Hospital. It is a comparatively simple exercise for a local authority to provide the transport for these cases from Monday to Friday. What is not as simple is to provide for their continuing care through the night and at weekends. Some of these patients may be totally unsupported and in the case of those with relatives I wonder if it is fair and reasonable to expect a relative to work normally in industry and then spend their free time caring for sick and aged relatives, who it will be impossible to leave in some cases, and who moreover may demand some type of attention during the night. The number of beds available will be reduced when the change from St. John's Hospital to Northowram Hospital is brought about.

I feel that a very careful selection of cases for this scheme will have to be made to avoid undue hardship to the families of these cases, where families can indeed assist in this manner.

It would seem that the services of Home Helps, night-sitters and District Nurses may have to be provided on an increased scale to care for day cases at the weekends. The Meals on Wheels Service is already giving a magnificent service, but this too may have to be extended if many more cases who cannot care for themselves arise in the community, particularly in the case of old persons living alone, or with relatives who are enfeebled themselves.

Warden schemes and important groups of old persons' dwellings may assist, and there may be scope for greater voluntary effort where the numbers of old people together can utilise schemes of aid.

No experiments have really been considered, though communal canteen-type feeding which is another consideration, may assist the aged.

The scheme for Heaf Testing and B.C.G. vaccine for Tuberculosis contacts who are heaf negative continues. In addition all susceptible immigrant children are offered B.C.G. as it has been thought that there has been an increased incidence of tuberculosis amongst immigrant children.

Of the total immigrants arriving in the town (136), only 44 were X-rayed, either on arrival in Britain or in town. This is only some 30.9%. In addition 32 out of 136 or some 23.5% were not traced, due in some cases to the addresses being non-existent owing to clearance programmes. When it is considered that 4 of the arrivals subsequently were found to be positive cases of tuberculosis, it is apparent that our efforts cannot be relaxed at all when dealing with particular "at risk" groups. That the immigrants remain a source of high risk of tuberculosis is shown from Tables 10 and 11, where the number of new cases of tuberculosis in 1968 was 38.

# Compulsory Admissions under Mental Health Act 1959

## 1961 to 1968

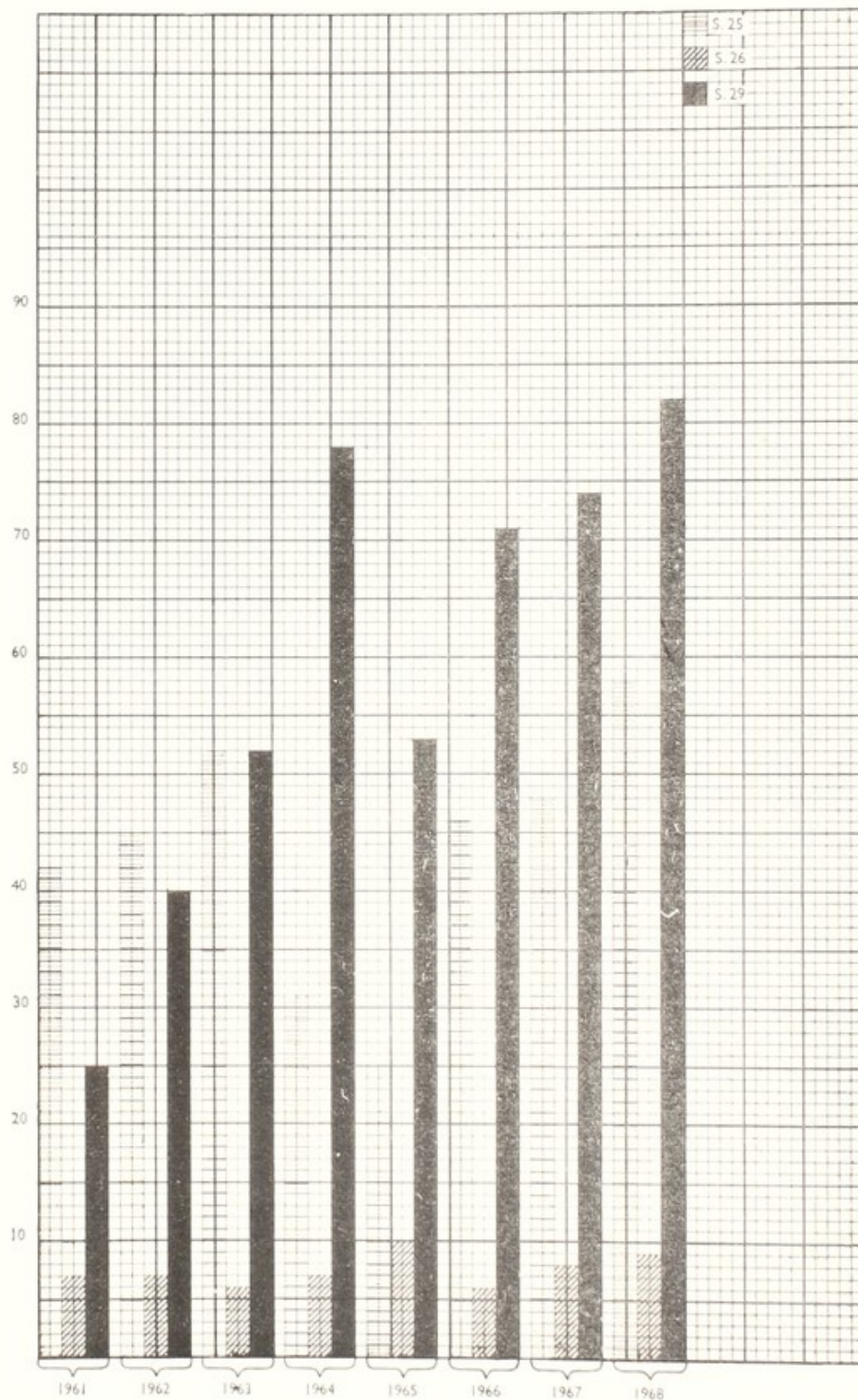


TABLE II  
MENTAL HEALTH ACT, 1959

Table showing numbers and percentages of admissions to hospital  
under compulsory measures

|         | SECTION 25 |             | SECTION 26 |             | SECTION 29 |             | TOTAL |
|---------|------------|-------------|------------|-------------|------------|-------------|-------|
|         | Number     | Per-centage | Number     | Per-centage | Number     | Per-centage |       |
| 1962 .. | 45         | 48.9        | 7          | 7.6         | 40         | 43.5        | 92    |
| 1963 .. | 52         | 47.3        | 6          | 5.4         | 52         | 47.3        | 110   |
| 1964 .. | 31         | 26.7        | 7          | 6.1         | 78         | 67.2        | 116   |
| 1965 .. | 25         | 28.4        | 10         | 11.4        | 53         | 60.2        | 88    |
| 1966 .. | 46         | 37.4        | 6          | 4.9         | 71         | 57.7        | 123   |
| 1967 .. | 53         | 39.3        | 8          | 5.9         | 74         | 54.8        | 135   |
| 1968 .. | 58         | 39.5        | 9          | 6.2         | 82         | 55.0        | 49    |
|         |            |             |            |             |            |             |       |

### INFECTION

1968 was satisfactory in relation to the low incidence of Infectious Disease.

TABLE III

| Disease                                 | Number   |           |
|---|----------|-----------|
|   | Notified | Confirmed |
| Anthrax .. .. .                         | —        | —         |
| Smallpox .. .. .                        | —        | —         |
| Dysentery .. .. .                       | 2        | 1         |
| Food Poisoning .. .. .                  | 18       | 4         |
| Typhoid Fever and Enteric Fever .. .. . | —        | —         |
| Para-Typhoid .. .. .                    | —        | —         |
| Scarlet Fever .. .. .                   | 15       | 15        |
| Malaria .. .. .                         | 1        | 1         |
| Diphtheria .. .. .                      | —        | —         |
| Puerperal Pyrexia .. .. .               | —        | —         |
| Erysipelas .. .. .                      | 1        | 1         |
| Ophthalmia Neonatorum .. .. .           | —        | —         |
| Acute Encephalitis .. .. .              | —        | —         |
| Acute Poliomyelitis .. .. .             | 1        | 1         |
| Cerebro-spinal Fever .. .. .            | —        | —         |
| Measles .. .. .                         | 348      | 348       |
| Whooping Cough .. .. .                  | 11       | 10        |
| Pneumonia—Primary .. .. .               | —        | —         |
| Meningococcal Infection .. .. .         | —        | —         |
| Tuberculosis—                           |          |           |
| Respiratory .. .. .                     | 30       | 30        |
| Other Forms .. .. .                     | 8        | 8         |
| Infective Jaundice .. .. .              | 17       | 17        |

There were 18 cases of food poisoning coming to the notice of the department during the year. Fourteen of these notifications were not confirmed.

The causative organism in the three confirmed cases was Salmonella Typhimurium and a further case notified as Gastro Enteritis was found to be due to Salmonella Typhimurium.

These cases involved 22 contacts of which 3 were found to be infected and a total of 68 specimens were obtained.

There were 26 cases of Gastro Enteritis notified. All 26 cases were treated in hospital. 78 contacts were traced and 203 specimens were taken. Two of these contacts were found to be affected by Sh. Flexner.

One case dysentery was notified involving 7 contacts and 14 specimens.

A total of 17 cases of Infective Hepatitis were notified to the department during the year.

One case of Poliomyelitis occurred in a 5½ year old boy.

### **Venereal Disease**

The work at the clinic by social worker includes booking of all new patients, male and female, recording all subsequent attendances, interviewing all patients about problems and health; writing letters to defaulting patients, male and female; paying travelling expenses where found necessary; arranging transport if required; arranging treatment to be given by District Nurse. Requests for Halifax patients to be visited have been received from Leeds, Bradford, Dewsbury and Huddersfield centres to persons who have preferred to attend a clinic further from home.

These duties are similar to those done by Social Worker at the Dewsbury centre.

Clinic attendances at Dewsbury:—

Male – Monday morning.

Female – Wednesday afternoon.

At the Huddersfield centre social worker's duties are not the same as at the other two centres.

Clinic attendances at Huddersfield are:—

Monday – 12.30 to 7 p.m.

Friday – 2.0 to 4.0 p.m.

Social worker is responsible for writing to defaulting patients and visits requested by any of the Consultants of Ward 25.

Enquiries and offers of help with patients at Maternity Hospitals found to have positive Wassermans have been made. Several West Indian women have been visited.

TABLE V

|   |     |
|---|-----|
| Total number of defaulting patients .. .. .                   | 14  |
| „ „ „ attendances after visit .. .. .                         | 12  |
| „ „ „ revisits to defaulters .. .. .                          | 2   |
| „ „ „ ineffectual visits .. .. .                              | 15  |
| <hr/>   |     |
| Total number of contacts .. .. .                              | 13  |
| „ „ „ revisits .. .. .  | 7   |
| „ „ „ ineffectual visits .. .. .                              | 10  |
| „ „ „ attendances at clinic .. .. .                           | 13  |
| <hr/>   |     |
| Total number of Clinic attendances for year 1968 .. .. .      | 206 |
| <hr/>   |     |
| Total number of visits for all purposes for year 1968 .. .. . | 479 |
| <hr/>   |     |
| Positive Wassermann .. .. .                                   | 4   |
| Attended .. .. .  | 4   |

This section of the report is based upon information provided by the social worker at the Harrison Clinic.

There were during the year 96 cases of gonorrhoea and 4 cases of late syphilis seen at the clinic in 1968. Of the cases of syphilis, 2 are British, 1 Pakistan and 1 Hungarian. 21 cases of gonorrhoea occurred in Pakistanis, 5 in West Indians, 4 in Cypriots, 1 Dutch and 2 Irishmen. The rest in British persons (63).

In 1967 there were reported 75 cases of gonorrhoea. The increase is probably a reflection of national trends and the national morals.

During 1968 the National Health Service Statutory Instruments (Venereal Act Regulations, 1968), amending slightly the position regarding patients treated at Venereal Disease Clinics, came into force. This concerns information about persons under treatment and the tracing of contacts.

## TUBERCULOSIS

The downward trend in the rate of new cases notified suffering from T.B. continues, there being fewer cases in 1968 as compared with the previous year, and for the first time none in the younger age groups from 0-19 years.

The Heaf Tests and B.C.G. vaccinations of 13 year old children has now been in operation for 10 years, and one would expect a decline in the age groups 20-29 years. This is seen if we compare the number of new cases according to age groups for the years

1964-68 (5 year period); the year 1964 was the first time a detailed analysis of cases was included in the report.

|               | <i>age group</i><br>15-19 | <i>age group</i><br>20-24 | <i>age group</i><br>25-29 |
|---------------|---------------------------|---------------------------|---------------------------|
| Cases in 1964 | 6                         | 7                         | 8                         |
| Cases in 1968 | —                         | 3                         | 1                         |

Ten years ago the hope was expressed that "if the rapid decline of all forms of tuberculosis, as in the last decade, continues, by 1970 there will be no longer a need to use the vaccine". Unfortunately other factors have arisen, which still make it very necessary to continue the service.

The immigrant population now account for one-fifth of the total number of cases on our books, but because of their nomadic ways of moving to different parts of the country it is very difficult to keep in touch with them.

### **Immigrants**

The intake of immigrants in Halifax during 1968 was nearly doubled compared with 1967. There were 76 immigrants in 1967 and 136 in 1968. Two of these new arrivals had to be admitted to sanatoria straight away as a result of X-rays at the port of entry, and a further two as a result of M.M.R.

The follow-up work in connection with immigrants has consequently increased. Of the 136 immigrants we were informed of only 32 were not traced. The follow-up work involved with immigrants requires a considerable amount of time, the address given is often wrong and non-existent, and a condition which is aggravated by the demolition programme.

Although all immigrants are given X-ray appointments, in fact only 30 attended - M.M.R. i.e. 22% - 122 immigrants were heaf tested and 64 of these were positive.

### **Free Milk**

11 patients were supplied with one pint of free milk daily from the Health Office.

TABLE VIII  
Immigrants 1968

| COMMONWEALTH COUNTRIES     |    |    |    |    |    | <i>No.</i> | <i>Contacted</i> |
|----------------------------|----|----|----|----|----|------------|------------------|
| India                      | .. | .. | .. | .. | .. | 10         | 7                |
| Pakistan                   | .. | .. | .. | .. | .. | 105        | 77               |
| Africa                     | .. | .. | .. | .. | .. | 7          | 7                |
| Caribbean                  | .. | .. | .. | .. | .. | 5          | 5                |
| Australia                  | .. | .. | .. | .. | .. | 1          | —                |
| Trinidad                   | .. | .. | .. | .. | .. | —          | —                |
| Hongkong                   | .. | .. | .. | .. | .. | 2          | 2                |
| Barbados                   | .. | .. | .. | .. | .. | —          | —                |
| Singapore                  | .. | .. | .. | .. | .. | —          | —                |
| Cyprus                     | .. | .. | .. | .. | .. | 2          | 2                |
| NON-COMMONWEALTH COUNTRIES |    |    |    |    |    |            |                  |
| Spain                      | .. | .. | .. | .. | .. | 2          | 2                |
| Italy                      | .. | .. | .. | .. | .. | 2          | 2                |
| Totals                     | .. | .. | .. | .. | .. | 136        | 104              |

TABLE IX  
INCIDENCE

R: Respiratory. NR: Non-Respiratory

| Age Group | R  |    | NRA |    | PAKISTAN |    |    |    | ALL CASES |    |     |    | 1968 PERSONS |    |       | 1967 PERSONS |    |       |
|-----------|----|----|-----|----|----------|----|----|----|-----------|----|-----|----|--------------|----|-------|--------------|----|-------|
|           |    |    |     |    | R        |    | NR |    | R         |    | NRA |    | R            | NR | Total | R            | NR | Total |
|           | M. | F. | M.  | F. | M.       | F. | M. | F. | M.        | F. | M.  | F. |              |    |       |              |    |       |
| 0-4       | —  | —  | —   | —  | —        | —  | —  | —  | —         | —  | —   | —  | —            | —  | —     | 3            | —  | 3     |
| 5-9       | —  | —  | —   | —  | —        | —  | —  | —  | —         | —  | —   | —  | —            | —  | —     | 1            | —  | 1     |
| 10-14     | —  | —  | —   | —  | —        | —  | —  | —  | —         | —  | —   | —  | —            | —  | —     | 1            | —  | 1     |
| 15-19     | —  | —  | —   | —  | 3        | —  | 1  | —  | 3         | —  | 1   | —  | 3            | 1  | 4     | 6            | —  | 6     |
| 20-24     | 2  | 1  | —   | —  | 1        | 1  | 1  | 1  | 3         | 2  | 1   | 1  | 5            | 2  | 7     | 3            | —  | 6     |
| 25-29     | 1  | —  | —   | —  | —        | 1  | 1  | —  | 1         | 1  | 1   | —  | 2            | 1  | 3     | 6            | —  | 6     |
| 30-34     | 1  | 2  | —   | —  | 1        | 1  | —  | —  | 2         | 3  | —   | —  | 5            | —  | 5     | 7            | —  | 7     |
| 35-39     | —  | 1  | —   | —  | —        | —  | —  | —  | —         | 1  | —   | —  | 1            | —  | 1     | 4            | —  | 4     |
| 40-44     | 1  | 1  | —   | —  | 2        | —  | 1  | —  | 3         | 1  | 1   | —  | 4            | 1  | 5     | 1            | —  | 1     |
| 45-49     | 1  | 1  | 1   | —  | —        | —  | —  | —  | 1         | 1  | 1   | —  | 2            | 1  | 3     | 1            | —  | 1     |
| 50-54     | 1  | —  | —   | —  | 1        | —  | —  | —  | 2         | —  | —   | —  | 2            | —  | 2     | 1            | —  | 1     |
| 55-59     | 2  | —  | —   | —  | —        | —  | —  | —  | 2         | —  | —   | —  | 2            | —  | 2     | 2            | —  | 2     |
| 60-64     | 2  | —  | —   | —  | —        | —  | —  | —  | 2         | —  | —   | —  | 2            | —  | 2     | 4            | —  | 4     |
| 65+       | 2  | 2  | —   | —  | —        | —  | —  | —  | 2         | 2  | —   | —  | 4            | —  | 4     | 3            | —  | 3     |
| TOTAL     | 13 | 8  | 1   | —  | 8        | 3  | 4  | 1  | 21        | 11 | 5   | 1  | 32           | 6  | 38    | 43           | —  | 43    |

TABLE X

## Summary 1968

|                         |        |             |     |    |       |
|-------------------------|--------|-------------|-----|----|-------|
| New cases non-Pakistani | Male   | Respiratory | ..  | .. | 13    |
| New cases non-Pakistani | Female | Respiratory | ..  | .. | 8     |
| New cases Pakistani     | Male   | Respiratory | ..  | .. | 8     |
| New cases Pakistani     | Female | Respiratory | ..  | .. | 3     |
|                         |        |             |     |    | <hr/> |
| Total Respiratory       |        | ..          | ..  | .. | 32    |
|                         |        |             |     |    | <hr/> |
| Total New Cases         |        | ..          | ..  | .. | 32    |
|                         |        |             |     |    | <hr/> |
| Transfers in 1968       |        | ..          | 11. |    |       |

## Details of Tuberculosis cases removed from Register according to the following circumstances:

|                 |    |    |    |    |    |    |    |
|-----------------|----|----|----|----|----|----|----|
| Recovered       | .. | .. | .. | .. | .. | .. | 39 |
| Deceased        | .. | .. | .. | .. | .. | .. | 16 |
| Transferred out | .. | .. | .. | .. | .. | .. | 16 |
| Left Country    | .. | .. | .. | .. | .. | .. | 2  |
| F.T.A.          | .. | .. | .. | .. | .. | .. | 14 |
| Total Removed   |    |    |    |    |    |    | 87 |

## Summary 1968

|   |    |    |     |
|---|----|----|-----|
| Tuberculosis cases brought forward 1968 | .. | .. | 559 |
| New Cases                               | .. | .. | 38  |
| Transferred in                          | .. | .. | 11  |
|   |    |    | 608 |
| Taken off Register as above             | .. | .. | 87  |
| Cases carried forward 1969              | .. | .. | 521 |

TABLE XI

This table shows the gradual increase in the total number of Pakistani cases on the Tuberculosis Register.

## PAKISTANI NEW CASES

| Year | Resp. | Non Resp. | Transfer in | Total | Total Pakistani Cases on books |
|------|-------|-----------|-------------|-------|--------------------------------|
| 1962 | 16    | 3         | —           | 19    | 23                             |
| 1963 | 17    | 1         | —           | 18    | 53                             |
| 1964 | 17    | 4         | —           | 21    | 60                             |
| 1965 | 18    | 2         | —           | 20    | 74                             |
| 1966 | 10    | 6         | —           | 16    | 79                             |
| 1967 | 19    | —         | 4           | 23    | 88                             |
| 1968 | 16    | 5         | 4           | 21    | 106                            |

**TABLE XII**  
**Heaf Tests 1968**

|                                      |              |    |    |    |    |     |
|--------------------------------------|--------------|----|----|----|----|-----|
| Domiciliary Contacts and Immigrants— |              |    |    |    |    |     |
| Negative                             | ..           | .. | .. | .. | .. | 131 |
| Positive ..                          | ..           | .. | .. | .. | .. | 131 |
|                                      | <b>Total</b> | .. | .. | .. | .. | 262 |
| Others—                              |              |    |    |    |    |     |
| Negative                             | ..           | .. | .. | .. | .. | 58  |
| Positive ..                          | ..           | .. | .. | .. | .. | 64  |
|                                      | <b>Total</b> | .. | .. | .. | .. | 122 |
| Totals—                              |              |    |    |    |    |     |
| Negative                             | ..           | .. | .. | .. | .. | 189 |
| Positive ..                          | ..           | .. | .. | .. | .. | 195 |
|                                      | <b>Total</b> | .. | .. | .. | .. | 384 |

**Positive Cases**

|                   |    |    |    |     |
|-------------------|----|----|----|-----|
| 1 deg. and 2 deg. | .. | .. | .. | 55  |
| 3 deg. ..         | .. | .. | .. | 38  |
| 4 deg. ..         | .. | .. | .. | 30  |
|                   |    |    |    | 123 |

**TABLE XIII**

|                  |        |                      |
|------------------|--------|----------------------|
| Non-Respiratory— |        |                      |
| Non-Pakistani    | Male   | 1 Epididymitis.      |
| Pakistani        | Male   | 4 Cervical Adenitis. |
| Pakistani        | Female | 1 Cervical Adenitis. |

**TABLE XIIIa**

This gives details of the work at the Chest Clinic in relation to testing and protecting infants.

|                                   |    |    |     |
|-----------------------------------|----|----|-----|
| B.C.G. including new born infants | .. | .. | 106 |
| Heaf Tests ..                     | .. | .. | 142 |
| (of these 103 positive)           |    |    |     |

B.C.G. is a vaccine (Bacille Calmette Guerin) after the Frenchmen who first prepared it.

**TABLE XIV**

This table indicates the extent of infection in relation to tuberculosis positive sputum results.

|           |    |    |    |    |    |    |
|-----------|----|----|----|----|----|----|
| New Cases | .. | .. | .. | .. | .. | 6  |
| Old Cases | .. | .. | .. | .. | .. | 15 |
|           |    |    |    |    |    | 21 |

TABLE XIVa

This indicates the work of examining contacts and F.T.A. refers to cases given an appointment but who failed to attend.

|                          |    |    |    |    |    |            |
|--------------------------|----|----|----|----|----|------------|
| X-ray Contacts           | .. | .. | .. | .. | .. | 280        |
| F.T.A.                   | .. | .. | .. | .. | .. | 30 = 10.4% |
|                          |    |    |    |    |    | <hr/>      |
| Total number of Contacts | .. | .. | .. | .. | .. | 310        |
|                          |    |    |    |    |    | <hr/>      |

A contact is a person not necessarily a member of the family but who lives in the home of a tubercular person.

TABLE XV

This table sets forth those admitted to sanatorium and length of stay therein.

|                                  |    |    |    |    |    |       |
|----------------------------------|----|----|----|----|----|-------|
| Admitted to Northowram           | .. | .. | .. | .. | .. | 46    |
| Discharges from Northowram—      |    |    |    |    |    |       |
| Normal Discharge                 | .. | .. | .. | .. | .. | 37    |
| Discharge against Medical Advice | .. | .. | .. | .. | .. | 8     |
| Deaths                           | .. | .. | .. | .. | .. | 6     |
|                                  |    |    |    |    |    | <hr/> |
| Total Discharges                 | .. | .. | .. | .. | .. | 51    |
|                                  |    |    |    |    |    | <hr/> |

Average length of stay – 10 weeks.

TABLE XVI

### Miniature Radiography in Halifax

|  | <i>Males</i> | <i>Females</i> | <i>Total</i> |
|--|--------------|----------------|--------------|
| 1. Examinations carried out—                                       |              |                |              |
| (a) Miniature X-rays taken   | 1,550        | 1,138          | 2,688        |
| (b) Number recalled for large film                                 | 13           | 9              | 22           |
| 2. Analysis of Provisional Findings—                               |              |                |              |
| (a) Cases of active tuberculosis                                   | 1            | 1              | 2            |
| (b) Cases of inactive tuberculosis                                 | 2            | —              | 2            |
| (c) Other abnormalities (see below)                                | 8            | 3              | 11           |
| (d) Failed to re-attend for large film                             | —            | —              | —            |
| 3. Analysis of Abnormalities other than Tuberculosis (2(c) above)— |              |                |              |
| <i>Disease</i>   |              |                |              |
| 1. Bacterial or virus pulmonary infections                         | —            | 1              | 1            |
| 2. Bronchiectasis  | 1            | —              | 1            |
| 3. Emphysema   | 1            | —              | 1            |
| 4. Pulmonary fibrosis: non-tuberculous                             | 3            | —              | 3            |
| 5. Sarcoidosis   | —            | 1              | 1            |
| 6. Pleural thickening  | —            | 2              | 2            |
| 7. Hilar-Bronchial Adenitis  | 1            | —              | 1            |
| 8. Primary Malignant Neoplasms                                     | 1            | —              | 1            |

## **Diabetes Mellitus**

In addition to the 346 first visits and 8,665 follow-up visits included in Table I, it should be put on record in the 1968 report that 51 attendances were made to the Out-Patient Department at The Royal Halifax Infirmary, where 384 patients were seen and had instruction of a diabetic diet.

Routine screening of patients in 'at risk' groups has been continued.

## **Geriatrics**

During 1968 there were 360 new Geriatric Cases, and the increased cooperation of the Hospital Social Services in referring cases to us on discharge home has been much appreciated, these as can be seen from Table XI amounted to 120, combined total from the hospitals, and an increase compared to the 77 referred in the previous year. The total number of new cases referred each year from all sources appears to be static at approximately 315-334 since 1965, whilst the take-off rate is increasing, running at 50 below the new case intake. The question arises, have we now arrived at a point where we must look further afield than the present known reference agencies.

It has been forecast that there will be in Halifax by 1970 approximately 14,000 people over the age of 65, and at the present time there are known to the department just over 1,000. Allowing an increase on our books of 100 each year, by 1970 we may have at a conservative estimate 1,200 cases, or 8.5% of the available pool of elderly persons over 65. According to one estimate 22.2% of people aged 65 and over live alone, the equivalent for Halifax in 1970 of 3,108 persons (one of course needs to take into account the number of persons in welfare accommodation). There are known to us 476 persons living alone, and it can be seen from the above that there must be many more elderly persons who would appreciate the visits of the Special Nurses.

Cases are still referred to us who are in desperate need of medical and social services, also still referred are cases who are grossly neglected and dirty, and in this enlightened age should never have been allowed to sink so low.

In Table III, 80 persons on our books have now accepted Warden type accommodation supervised by the Welfare Department, as compared to 20 in the previous year. This is encouraging as this type of accommodation does offer close supervision and immediate help when necessary.

There are still cases on the books who, since the last report, are still waiting to be re-housed and are still living in unsatisfactory

conditions. Whilst on the subject of re-housing one wonders whether the inclusion of bathroom suites for the elderly is advisable or practical. From our own observation it has been found that more often than not these are unused, as very few elderly people, certainly those living alone or crippled with arthritis, will attempt to get into the bath alone. The District Nursing Service is only available for bed-baths and consequently the baths are never used. Would it be feasible of economic to replace the baths in future old persons' dwellings with a hot and cold shower, a foot bath to accommodate a wooden stool, which would enable the elderly person to retain their independence a little longer?

At the end of the year 46 cases were in hospital, leaving a total of 998 who were being visited. Table IV refers. 476 of these were living alone and being maintained at home by various agencies such as Home Help, Welfare, Meals-on-Wheels, and also supported by relatives. The numbers living alone have increased from 372 cases in the previous year, and because of the acute shortage of welfare and hospital accommodation, aggravated to some extent by the decrease in geriatric beds available in the planned Geriatric Hospital at Northowram, is likely to continue to rise. This in turn will throw increased demands on the District Nursing Service – Home Help and Night Sitting Services – referring to the same table, the at-risk per cent rate for women living alone also increased.

The ratio table is self-explanatory and does not reveal much change in the ratio between men and women, but does show a general increase in the number of persons in the 70–80 age groups – 57 persons under 60 is also slightly up on last year.

The help, as in the past, given by the Home Helps, Public Health Inspectors and Welfare Departments has been much appreciated.

The Special Nurses have worked conscientiously and sympathetically towards their patients, and have contributed in no small manner to the smooth running of their section.

A Domiciliary Therapist would go a long way to alleviate suffering in the home. The therapist would also be a boon to patients recovering from "strokes" who have some resultant paralysis.

The loans and incontinent sheet service have been much appreciated.

The help given by the District Nursing Services has been invaluable, especially in connection with weekly bed baths. The help of the Welfare Services and the Public Health Inspectors also, the latter have given their help in the disinfection of two houses with vermin and one with mice, also the advice and visits given in connection with unsuitable houses has been much appreciated. In the two instances the cases had to go to Bradford for bathing and were re-issued with clothing.

Thanks are due to the staff who have worked cheerfully and well, and in so many cases have gone the extra mile.

# GERIATRIC STATISTICS

## TABLE I

Cases Referred by:—

|  |            |
|--|------------|
| Health Department .. .. .                    | 17         |
| Home Helps .. .. .                           | 22         |
| Medical Social Workers, H.G.H. .. .. .       | 34         |
| Medical Social Workers, R.H.I. .. .. .       | 55         |
| Medical Social Workers, St. John's .. .. .   | 30         |
| Medical Social Workers, Pinderfields .. .. . | 1          |
| Chiropody .. .. .                            | 73         |
| Welfare Services .. .. .                     | 19         |
| Council of Social Services .. .. .           | 10         |
| District Nurses .. .. .                      | 32         |
| Mental Health .. .. .                        | —          |
| Health Visitors .. .. .                      | 6          |
| Others .. .. .                               | 57         |
| General Practitioners .. .. .                | 4          |
| <b>Total New Cases .. .. .</b>               | <b>360</b> |

## TABLE II

**Services and Other Agencies: Number of patients served**

|                                       |     |
|---------------------------------------|-----|
| Home Help visit .. .. .               | 311 |
| Meals on Wheels .. .. .               | 51  |
| Visited by Welfare Department .. .. . | 206 |
| W.R.V.S. Clothing .. .. .             | 62  |

## TABLE III

|   |    |
|---|----|
| Could benefit by Part II Accommodation .. .. .      | 54 |
| Refused Part III Accommodation .. .. .              | 14 |
| Require rehousing due to age and disability .. .. . | 62 |
| Applied for rehousing .. .. .                       | 47 |
| Warden-type flats and almshouses .. .. .            | 80 |

Table III shows that there are still a large number of patients whose needs in the community remain unsatisfied.

## TABLE IV

**Distribution of Cases as at 31st December, 1968**

**Numbers in Hospital and in Potential Need**

|                                     |            |
|-------------------------------------|------------|
| Acute Hospital Cases .. .. .        | 46         |
| Number receiving visits .. .. .     | 998        |
| Patients living alone: Men .. .. .  | 95         |
| Women .. .. .                       | 372        |
| <b>Total living alone .. .. .</b>   | <b>476</b> |
| Of those living alone:—             |            |
| Men at risk .. .. .                 | 25         |
| Women at risk .. .. .               | 71         |
| Requiring close supervision .. .. . | 29         |

**TABLE V**  
**Ratio Males to Females**

| <i>Age Group</i> | <i>Male</i> | <i>Female</i> | <i>Ratio Male to Female</i> | <i>Percentage</i> |
|------------------|-------------|---------------|-----------------------------|-------------------|
| 60 to 64 ..      | 24          | 54            | 1 to 2.2                    | 7.9%              |
| 65 to 69 ..      | 32          | 88            | 1 to 2.7                    | 12.3%             |
| 70 to 74 ..      | 44          | 163           | 1 to 3.7                    | 20.6%             |
| 75 to 79 ..      | 53          | 173           | 1 to 3.2                    | 22.6%             |
| 80 to 84 ..      | 38          | 186           | 1 to 4.9                    | 22.4%             |
| 85 to 89 ..      | 14          | 93            | 1 to 6.6                    | 10.9%             |
| 90 to 94 ..      | 2           | 20            | 1 to 10.0                   | 2.2%              |
| 95 plus ..       | 1           | —             | 1 to 1.0                    | 0.1%              |
|                  | 208         | 777           | 3 to 4.0                    |                   |
| Total over 60 .. | 985.        |               |                             |                   |

59 under 60, some physically disabled, handicapped and social misfits.

**TABLE VI**  
**Case Register**

**Total Cases remaining on Register at 31st December, 1968**

|                         |    |    |    |    |       |
|-------------------------|----|----|----|----|-------|
| Total of Register, 1967 | .. | .. | .. | .. | 970   |
| New Cases 1968          | .. | .. | .. | .. | 360   |
|                         |    |    |    |    | 1,330 |
| Less Take-offs ..       | .. | .. | .. | .. | 286   |
| Total, December, 1968   | .. | .. | .. | .. | 1,044 |

**Clinics Manned by the Special Nurses**

*St. John's Outpatients, Geriatric.*

Wednesday afternoons.

*Chest Clinic, Royal Halifax Infirmary.*

Wednesday all day, except the first and last Wednesday of the month.

**Comparison Table, 1963-1968**

|      |    |    |    |    |                      |
|------|----|----|----|----|----------------------|
| 1963 | .. | .. | .. | .. | 342 cases on books   |
| 1964 | .. | .. | .. | .. | 394 cases on books   |
| 1965 | .. | .. | .. | .. | 609 cases on books   |
| 1966 | .. | .. | .. | .. | 824 cases on books   |
| 1967 | .. | .. | .. | .. | 970 cases on books   |
| 1968 | .. | .. | .. | .. | 1,044 cases on books |

## MENTAL HEALTH

The year 1968 was a very active one in the Mental Health Section of the Department and trends of previous years, indicating persistent increases in the number of referrals, continued. During 1968, 1,486 referrals were recorded as against 1,430 the previous year. Of these, however, only 424 (28.5%) were initial referrals, whilst the remaining 1,062 (71.5%) were already known to the Service. There was a slight increase over the previous year in the number of admissions to hospitals dealt with by the Mental Welfare Officers – 456 (443 in 1967), and, similarly, the number of compulsory admissions increased to 149 (135 in 1967). In spite of time taken up in dealing with admissions the Mental Welfare Officers' domiciliary visits to cases of mental illness increased to 4,635 as against 2,699 in 1967. The Mental Welfare Officer staff had been denuded by one officer during 1967 in order to maintain the Home Help Service and it was not until May, 1968, that the full establishment of Mental Welfare Officers was restored.

The greater proportion of referrals came from general practitioners, hospitals and out-patient clinics. There has been a steady rise in latter years of the number of patients seen in their own homes by psychiatrists. Although this makes heavy demands on both psychiatrists and Mental Welfare Officers certain advantages evolve. The patient is seen much sooner than would be the case if an out-patient clinic appointment was awaited and in many instances a mental illness in an acute phase can be diagnosed and treated more effectively by this method. Furthermore, the psychiatrist is able to devote more time to the examination of the patient than could be spared in a clinic and the environment in which the patient is living is observed at first hand which could influence the decision on the best way of management. The Mental Welfare Officer played an important social worker role in this setting by visiting the home in advance of the psychiatrist to obtain information of the environmental circumstances, then accompanied the psychiatrist and, after examination, the treatment programme decided with supportive measures to be taken by the Medical Welfare Officer on behalf of the patient and the family. In other words, the Mental Welfare Officer was involved from the time of referral by the general practitioner until the patient and the family were sufficiently stable to be self-supporting.

The close liaison between the psychiatrists and the Mental Welfare Officers was further maintained at the out-patient clinics. Case histories were prepared by the Mental Welfare Officers prior to clinic consultations and guidance given by the psychiatrists on the social requirements of patients from time to time. There was close co-operation with the medical and social worker staff at the hospitals relating to patients undergoing in-patient treatment in readiness for their discharge and after-care in the community.

The hospital treatment of mentally ill patients was confined to Storthes Hall and St. Luke's Hospitals in the Huddersfield area.

The distances involved detracted from a more desirable service being afforded by the Local Authority staff. Nevertheless, every opportunity was taken by the Mental Welfare Officers to maintain contact with patients whenever they visited the hospitals.

In May, 1968, after negotiations between the local Hospital Authority, the psychiatrists and the Health Department, arrangements were made for the Royal Halifax Infirmary where the Accident Department is sited, to be designated for the purposes of detaining certain patients in their care under the Mental Health Act. The type of patients involved were those who had been admitted suffering from overdoses of drugs and self-inflicted injuries and who refused to accept emergency treatment and observation on the Wards pending a decision by the psychiatrist as to their management. In such cases where an emergency order was applied, the patients not only had their immediate medical needs attended to, but their admission to a psychiatric hospital was sometimes averted.

There was a marked increase in the number of persons coming to notice who fell within the classification of "psychopathy" and a special report on this subject was given to the Health Committee during the year. This group of persons cannot be effectively dealt with either in the ordinary psychiatric hospital or in any local authority establishment catering for mentally ill or subnormal patients. They come into conflict with society, but many of them manage to keep within the law. They are irresponsible, unstable and unpredictable in their behaviour and are a disturbing influence when associating with other types of mentally disordered persons. It has been our unfortunate experience in endeavours to assist in some measure with the rehabilitation of some of these persons by admitting them to our Hostels. Without exception there has been trouble and it has been made abundantly clear that they cannot be managed in such an environment. Owing to there being no institutional accommodation available in this area to meet the needs of psychopaths, the community services, and in particular the Mental Health Service, are faced with an unenviable problem. The amount of care and supervision which can be given is infinitesimal and even that has no lasting effect. As this is a qualified disorder under the terms of the Mental Health Act, the Local Health Authority cannot evade its responsibilities and valuable time had to be spent, frequently to no avail, which could be put to a much more rewarding and beneficial effect on those persons who really need and respond to the services available. Some serious thought needs to be given to this problem, particularly in this part of the country, if society is to be protected from the malady of psychopathy.

At the end of the year there were 650 mentally ill and psychopathic patients who, in varying degrees, were in need of home visiting. This number, together with 208 subnormal and severely subnormal persons constituted a formidable case load of over 200 patients for each Mental Welfare Officer. It is impossible to afford the after-care needed and effective steps cannot be taken to prevent relapses and subsequent return to hospital.

Most of the visiting of the mentally subnormal persons living in the community was undertaken by one of the Special Nurses on a part-time basis. Whilst this relieved the Mental Welfare Officers to some extent, although it should be part of their duties to do this work, this special kind of social work could not be as effective as one would wish. Many problems associated with this type of handicap do not surface until the advent of crises and regular contact with the home could often prevent crises arising. It is gratifying to note that of the 172 known subnormal persons of working age in the community only 29 (16.8%) were not occupied, and that 102 (59.3%) were in normal employment, and 41 (23.9%) were attending the Adult Training Centre. This reasonably sound situation could deteriorate in future years as the present Adult Training Centre has exceeded its capacity and it is in hopeful anticipation that 1969 will see the long-awaited new 60 place Adult Training Centre becoming a reality. It would be tragic to have to deny the benefits of a Centre to this group of persons. It is imperative that such facilities should be readily available otherwise there could be adverse criticisms of the Authority's services in this field as well as exposing these unoccupied persons to risk.

We were grateful for the co-operation during the year of the hospitals for the mentally subnormal where it was possible to admit in times of need for diagnostic and treatment purposes. The assistance which was given in providing short term care to give some respite to the parents and, in some instances to make it possible for them to have a holiday, was valuable and much appreciated. We, in this area, were fortunate in this respect in comparison with other parts of the country and I feel that this is due in some measure to the good working relationship which exists between the hospitals and the Department. The counselling of parents and relatives of the mentally handicapped and the special efforts of the voluntary society have done much to create a better understanding of the problems involved.

The work undertaken in the Junior and Adult Training Centres at Furness Park continued most satisfactorily and a fuller report on their activities is included later in this Report. At this juncture it is sufficient to say that the efforts of the staff and all those who show interest in the work they are doing, is appreciated. Special mention is made of the support given by various industries which have provided work for the Adult Centre, for without their patronage the modern concept of occupation for mentally handicapped adults would have been impossible.

The residential care of mentally disordered persons was provided during the year in three Hostels. Theophilus Cottage played its part in the rehabilitation of a number of former mentally ill persons. A summary of the persons in residence during the year is included in this Report. The untiring efforts of the Matron to bring about successful resocialisation were much appreciated. This is a task with special responsibilities and not easy to fulfil.

The Hostel for mentally subnormal men at Furness Gardens met most demands and served a very useful purpose throughout the year. It was, for the most part, fully occupied during the whole of the year. The happy, homely atmosphere which prevailed at this Hostel was due in no small measure to the admirable work done by the Houseparents who were regarded by the residents as their own parents.

Furness Drive Hostel for mentally subnormal women came into use early in 1968. Unfortunately, there was not a heavy demand for places in this Hostel and all needs could be met. This Hostel is maintained on the same lines as Furness Gardens and in the passage of time one is confident that it will be more fully used.

Club activities for both former mentally ill persons and the mentally handicapped continued to function during the year. The Therapeutic Social Club was transferred to the new Clinic premises towards the end of the year and the appointment of a member of the staff as Club Organiser ensured continuity of activities. This Club has been in existence since 1961, and has met in premises owned by the Welfare Services Department and appreciation is recorded of the facilities made available during the past eight years.

The Club for mentally handicapped persons was organised by the local branch of the Society for Mentally Handicapped Children and for this work and other splendid efforts they made on behalf of the mentally handicapped are to be commended. The Society sustained a sad loss in March by the death of their Secretary, Mr. Jack Ramsden, whose unselfish and untiring efforts left an indelible mark on the memory of those who had the privilege of knowing and working with him.

Since the opening of the Laura Mitchell Clinic in August, 1968, it was possible for the personnel in the services concerned with family care to work in closer contact with each other and this was particularly so in the case of mental health. The School Health, Child Guidance, Home Help and Health Visitors were more accessible to the staff in the Mental Health Section and the co-ordination of effort became much easier. The new premises made working conditions much more pleasant and the introduction of new systems was conducive to increased efficiency.

Mental Health Week was observed in Halifax from 9th to 15th June. The two voluntary organisations associated with mental health and the Health Department staff combined their efforts in organising a week of activity. A Church Service at St. Andrew's Methodist Church opened the Week on the Sunday evening. A joint meeting of the W.R.V.S., Day Nursery staffs and Mother and Baby Club personnel was held in the Town Hall on the Monday afternoon. Open Days were arranged at Westwood, Stansfield View and Fielden Hospitals for subnormal patients on Tuesday, Wednesday and Thursday. On the Wednesday evening a Symposium was held in the new Clinic at which about 150 people were present. Although the building was not completed the meeting was made possible

through the good offices of the Architect and the workmen, and it was a tremendous success. Under the Chairmanship of Alderman Mrs. L. A. Mitchell, four papers were given by the Medical Officer of Health, Dr. A. J. Dalzell Ward, Central Council for Health Education, Dr. G. F. J. Goddard, Psychiatrist, Child Guidance Service, and Dr. D. A. Spencer, Medical Director, Westwood Hospital, Bradford. The Week culminated in the voluntary organisations participating with great success in the local Charity Gala on the Saturday. A considerable amount of work was done by many people to make the Mental Health Week in Halifax worth remembering.

The good relationships which are well established in Halifax between general practitioners, hospital staffs and the Mental Health Service were again evident during 1968. Although working under great difficulties and extreme pressure, the members of the public had no reason to suspect that such circumstances existed, but should be grateful that the services operated so well when the need arose.

Halifax is blessed by a multitude of voluntary workers in all kinds of fields and Mental Health is one that engages the interest of a number of them either directly or in an indirect way. The statutory services have need of the help so willingly given in the interests of mentally disordered persons. The wonderful work done by the Local Association for Mental Health gathered momentum during 1968, and those professionally engaged in the work, and more so the public of Halifax, have good reason to be thankful that such stalwart workers are at hand. We must not overlook other organisations who came forward in the hour of need, such as the Women's Royal Voluntary Service, the Council of Social Service, the Samaritan Service and the White Rose Alcoholic Club. We have reason to be grateful to them all.

The Mental Health and Care Sub-Committee which met regularly during the year, was responsible for dealing with matters relating to the Mental Health Service.

Staff as at 31st December, 1968:

Medical Officer of Health:

John G. Cairns, M.B., Ch.B., D.P.H., F.R.S.H.

Deputy Medical Officer of Health:

K. Malcolm Wood, M.B., Ch.B., D.P.H., D.C.H.,  
Dip. Obst. R.C.O.G.

Senior Mental Welfare Officer:

Leonard Holdsworth, M.S.M.W.O.

Mental Welfare Officers:

Peter L. Nickerson, M.S.M.W.O.

E. Michael Smith, S.R.N., R.M.N.

Thomas J. D. Smith, S.R.N., R.M.N.

Mrs. Pamela C. Tansley.

Social Worker (Child Guidance):

Mrs. C. Berry, M.S.M.W.O.

Welfare Assistant:

Mr. John S. Wilson.

Trainee Welfare Assistant:

Miss Karen Bolton.

Approved Medical Practitioners under the Mental Health Act, 1959, Section 28(2):

John G. Cairns, M.B., Ch.B., D.P.H., F.R.S.H.

K. Malcolm Wood, M.B., Ch.B., D.P.H., D.C.H., Dip. obst. R.C.O.G.

Willis Henry Craven, B.Sc., M.B., Ch.B., D.T.M.

Reginald K. Hyland, M.B., B.S.

David H. Ropschitz, M.D., D.P.M.

Montague Segal, B.Sc., M.B., M.R.C.P.G., M.R.C.S., D.P.M.

Geoffrey F. J. Goddard, M.R.C.S., L.R.C.P., D.P.M. (Lond.).

### **Theophilus Cottage Hostel Residents during 1968**

1. Man, aged 41. Single. Schizophrenia.

Admitted 18.4.67. Discharged 2.1.68.

Re-admitted 24.2.68. Discharged 27.4.68.

A former long-stay hospital patient whose relatives would not have him home owing to a bad work record. Found work and went into lodgings, but was re-admitted to Hostel. He later moved to lodgings again, but was ultimately re-admitted to hospital.

2. Woman, aged 48. Single. Schizophrenia.

Admitted 16.8.67. Discharged 12.2.68.

Re-admitted 16.9.68. Discharged 31.12.68.

Admitted from psychiatric unit on first occasion. Difficulty in maintaining a job. Eventually left the Hostel and went into private lodgings, but had to be re-admitted to hospital. During second period in hostel she again showed little inclination towards work, but finally obtained a residential post which proved satisfactory.

3. Man, aged 19. Single. Schizophrenia.

Admitted 22.11.67. Discharged 25.2.68.

Was in Hostel previously in 1967. Re-admitted after further hospital treatment. Difficulty in holding a job and finally left the Hostel to live with parents.

4. Man, aged 61. Married but separated. Depression.

Admitted 23.12.67. Discharged 27.1.68.

Admitted on a number of occasions in past as he lived alone. On this occasion admitted in first place over Christmas period, but remained in Hostel until well enough to return home.

5. Woman, aged 55. Married. Depression.  
Admitted 4.1.68. Discharged 8.1.68.  
Admitted for a few days following hospital treatment as her husband was unable to cope as he too had been ill.
6. Man, aged 21. Single. Subnormal.  
Admitted 17.1.68. Discharged 20.1.68.  
Admitted as there was no place at Furness Gardens Hostel and his mother was to be away from home.
7. Man, aged 22. Single. Psychopathy.  
Admitted 22.1.68. Discharged 7.6.68.  
Re-admitted 8.7.68. Discharged 16.7.68.  
Re-admitted 20.12.68.  
Admitted on discharge from hospital where he had been treated for depression. Efforts at rehabilitation were not successful. He returned home, but was re-admitted to Hostel. He again returned to hospital and re-admitted to Hostel and was in residence at end of the year.
8. Man, aged 31. Single. Schizophrenia.  
Admitted 1.2.68. Discharged 30.3.68.  
Admitted on discharge from hospital. Found work and eventually left to go into lodgings.
9. Woman, aged 33. Single. Schizophrenia.  
Admitted 1.2.68. Discharged 20.6.68.  
Admitted on discharge from hospital. Had difficulty in maintaining a job, but eventually able to support herself and went into private accommodation.
10. Woman, aged 37. Single. Depression.  
Admitted 1.2.68. Discharged 3.5.68.  
Admitted on discharge from hospital. Found work which she maintained satisfactorily and eventually left to go into private lodgings.
11. Woman, aged 22. Single. Psychopathy.  
Admitted 26.1.68. Discharged 15.2.68.  
Re-admitted 1.3.68. Discharged 16.4.68.  
Re-admitted 19.4.68. Discharged 26.4.68.  
Re-admitted 2.9.68. Discharged 6.9.68.  
During the many periods in the Hostel no measure of success with rehabilitation. Eventually left to go into private accommodation.
12. Man, aged 18. Single. Psychopathy.  
Admitted 3.4.68. Discharged 26.8.68.  
Admitted from home where difficulties had arisen. Little success in the Hostel and he left of his own accord without declaring his intention.

13. Man, aged 40. Married. Schizophrenia.  
Admitted 12.4.68. Discharged 16.4.68.  
Re-admitted 3.5.68. Discharged 6.5.68.  
Re-admitted 10.5.68. Discharged 13.5.68.  
Owing to family difficulties was admitted for three week-end leave periods from hospital during 1968. Finally discharged from hospital to lodgings.
14. Woman, aged 68. Widowed. Depression.  
Admitted 26.4.68. Discharged 29.4.68.  
Admitted for weekend leave period from hospital. Lived alone and unwise for her to spend leave at home. Finally discharged from hospital to her home.
15. Woman, aged 59. Widowed. Depression and alcoholism.  
Admitted 29.4.68. Discharged 24.5.68.  
Re-admitted 5.7.68. Discharged 2.11.68.  
Admitted from hospital. No home of her own. Had to be re-admitted to hospital. Was tried again in Hostel, but again again relapsed and re-admitted to hospital.
16. Woman, aged 42. Single. Schizophrenia.  
Admitted 30.4.68.  
Had previously been rehabilitated from the Hostel in a residential job. She had been a long-stay hospital patient. She relapsed and to avoid re-admission to hospital was taken into Hostel. Another job was found for her and at the end of the year was about to leave to move into a Corporation flat.
17. Woman, aged 28. Single. Depression.  
Admitted 6.5.68. Discharged 11.7.68.  
Admitted from home where difficulties arose in her management. She settled down reasonably well and was working at the time she decided to leave.
18. Man, aged 52. Single. Depression.  
Admitted 13.5.68. Discharged 11.7.68.  
Re-admitted 16.7.68. Discharged 19.7.68.  
Re-admitted 26.7.68. Discharged 5.9.68.  
Admitted from hospital, but had to be re-admitted owing to a relapse. Tried in Hostel on two weekend leaves and finally re-admitted to Hostel where he remained until he returned to his home where he lived alone. He was working when he left.
19. Man, aged 32. Single. Psychopathy.  
Admitted 28.5.68. Discharged 1.6.68.  
Admitted as he showed evidence of mental disorder and had been found homeless. Whilst in the Hostel he became unmanageable and was admitted to hospital.

20. Woman, aged 32. Single. Schizophrenia.  
Admitted 23.7.68. Discharged 30.7.68.  
Admitted from hospital owing to difficult home circumstances, but did not settle down in the Hostel and returned home.
21. Man, aged 17. Single. Personality disorder.  
Admitted 29.7.68. Discharged 1.11.68.  
Admitted from hospital in order to prove himself capable of maintaining a job which he had not done whilst at home. He made a successful effort and was working satisfactorily on discharge.
22. Man, aged 52. Single. Depression.  
Admitted 2.8.68.  
Admitted from hospital. Had formerly lived alone. By the end of the year he had found work which he was following regularly.
23. Woman, aged 20. Single. Psychopathy.  
Admitted 9.9.68. Discharged 1.10.68.  
Re-admitted 12.10.68. Discharged 31.10.68.  
Admitted from home owing to behaviour difficulties, but had to be admitted to hospital. A further trial was given in the Hostel, but again this failed and she was re-admitted to hospital.
24. Woman, aged 41. Married. Inadequate personality.  
Admitted 5.11.68. Discharged 8.11.68.  
Admitted from home owing to husband's admission to hospital and her inability to manage alone. Returned home on husband's discharge from hospital.
25. Woman, aged 47. Divorced. Chronic schizophrenia.  
Admitted 23.12.68.  
A long-stay hospital patient. Had no home to which she could return. She had not begun work by the end of the year.
26. Man, aged 16. Single. Schizophrenia.  
Admitted 20.12.68.  
Admitted from hospital owing to difficult home circumstances. Efforts being made at the end of the year to find him employment. He had never been employed before.

#### **Furness Gardens Hostel Residents during 1968**

1. Man, aged 48. Single. Schizophrenia.  
Admitted 13.11.65. Discharged 18.6.68.  
Had lived at the Hostel since it opened having been transferred from Theophilus Cottage Hostel. He had no home and attended the Training Centre. His psychotic state deteriorated and he was admitted to hospital where he subsequently died.

2. Man, aged 24. Single.  
Admitted 20.12.65.  
Maintained himself in a job since his admission. Has no relatives able to offer him a home.
3. Man, aged 38. Single.  
Admitted 7.1.66.  
Unable to follow normal employment and attends the Training Centre. Has no home or relatives able to care for him.
4. Man, aged 71. Single.  
Admitted 16.2.67.  
Admitted to Hostel after almost 40 years in a subnormality hospital. Has settled down well and attends the Training Centre.
5. Man, aged 18. Single.  
Admitted 25.3.67. Discharged 13.4.68.  
Admitted owing to poor home circumstances and refusal to work. During his stay he maintained a job, but eventually expressed desire to leave and returned home.
6. Man, aged 22. Single.  
Admitted 28.2.68. Discharged 4.3.68.  
Re-admitted 10.5.68. Discharged 25.5.68.  
Re-admitted 31.5.68. Discharged 17.6.68.  
Re-admitted 19.7.68. Discharged 26.7.68.  
Re-admitted 8.11.68.  
Admitted from home at request of mother who felt she could not manage him. He gave no trouble in the Hostel. Attended the Training Centre regularly. Eventually, he expressed a desire to go into Hostel for an indefinite period and was in residence at the end of the year.
7. Man, aged 22. Single.  
Admitted 24.7.68. Discharged 22.8.68.  
Admitted during parents' holiday period. Attends the Training Centre.
8. Man, aged 31. Single.  
Admitted 10.9.68. Discharged 20.9.68.  
Admitted from hospital as he had no home to which he could return. Not a successful resident. Had a psychopathic personality. Took his own discharge and left the district.
9. Man, aged 23. Single.  
Admitted 11.10.68. Discharged 24.10.68.  
Admitted whilst mother with whom he lives alone was in hospital. Attends the Training Centre.

## Furness Drive Hostel Residents during 1968

1. Woman, aged 29. Single.  
Admitted 11.2.68. Discharged 9.11.68.  
Had previously been in residence at Furness Gardens Hostel, but transferred when Furness Drive Hostel opened. Apart from a brief return to hospital in September, she had maintained very well and had worked well at Remploi Factory. She left the Hostel to live with relatives out of the district.
2. Woman, aged 20. Single.  
Admitted 29.2.68. Discharged 4.3.68.  
Admitted owing to poor home circumstances. Suffered from epilepsy. Could not be managed in Hostel and was admitted to hospital.
3. Woman, aged 18. Single.  
Admitted 18.5.68.  
Had been in care of Children's Home. Has no home to which she could return. Has maintained herself very well in the Hostel and worked regularly.
4. Woman, aged 23. Married, apart.  
Admitted 5.9.68. Discharged 21.9.68.  
Was found living in bad home circumstances. Of sub-normal intelligence. Taken into Hostel on being turned out of her lodgings. Not a successful Hostel case. Terminated her stay by leaving the district.
5. Woman, aged 26. Single.  
Admitted 2.10.68.  
Admitted from hospital where she had been a patient for many years. Found work and settled down reasonably well. Has no home or relatives able to look after her.

## Suicide, 1968

| <i>Date</i> | <i>Sex</i> | <i>Age</i> | <i>Employment</i> | <i>Cause of Death</i>  |
|-------------|------------|------------|-------------------|--|
| 8.3.68      | Male       | 52         | Engineer          | Carbon Monoxide (Coal gas) poisoning self-administered while the balance of his mind was disturbed.          |
| 3.5.68      | Female     | 56         | Housewife         | Barbiturate (carbrital) poisoning self-administered while the balance of her mind was temporarily disturbed. |
| 19.7.68     | Female     | 50         | Housewife         | Nitrazepan (Mogadon) poisoning self-administered while the balance of her mind was temporarily disturbed.    |

|         |        |    |                           |   |
|---------|--------|----|---------------------------|---|
| 19.7.68 | Female | 61 | Clerk                     | Phenobarbitone (Carbrital) poisoning self-administered while the balance of her mind was temporarily disturbed. |
| 16.8.68 | Male   | 46 | Machine Tool Shop Foreman | Cyanide poisoning self-administered while the balance of his mind was temporarily disturbed.                    |
| Sep. 68 | Female | 62 | Spinster                  | Inward transfer.<br>Killed herself by swallowing Harpic whilst the balance of her mind was disturbed.           |
| Nov. 68 | Female | 75 | Widow                     | Coal gas poisoning self-administered while the balance of her mind was temporarily disturbed.                   |

The number of suicides during 1968 was seven. During 1967 the total was 16.

In the table which follows the age and sex distribution of suicides during the 10 years is illustrated.

TABLE XXII  
SUICIDES, 1959-69

|                     | 15-24 | 25-44 | 45-64 | 65-74 | 75 and Over | Total | Males | Females |
|---------------------|-------|-------|-------|-------|-------------|-------|-------|---------|
| 1959                | 3     | 5     | 8     | 3     | 1           | 20    | 9     | 11      |
| 1960                | 1     | 6     | 12    | 2     | —           | 21    | 11    | 10      |
| 1961                | —     | 3     | 3     | 4     | 2           | 12    | 4     | 8       |
| 1962                | —     | —     | 5     | 3     | —           | 8     | 5     | 3       |
| 1962                | —     | —     | 5     | 3     | —           | 8     | 5     | 3       |
| 1963                | 3     | 5     | 8     | 3     | 2           | 21    | 13    | 8       |
| 1964                | —     | 3     | 4     | 1     | 2           | 10    | 7     | 3       |
| 1965                | 1     | 4     | 4     | 2     | 1           | 12    | 8     | 4       |
| 1966                | 1     | 2     | 5     | 1     | 2           | 11    | 10    | 1       |
| 1967                | 2     | 4     | 7     | 1     | 2           | 16    | 8     | 7       |
| 1968                | —     | —     | 6     | —     | 1           | 7     | 2     | 5       |
| Total over 10 years | 11    | 32    | 62    | 20    | 13          | 138   | 78    | 60      |

TABLE XXIII  
Distribution of Suicides – Seasonal

|      | Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sept. | Oct. | Nov. | Dec. |
|------|------|------|------|------|-----|------|------|------|-------|------|------|------|
| 1967 | —    | 4    | —    | 1    | 3   | 1    | —    | 1    | 3     | 1    | 2    | —    |
| 1968 | —    | —    | 1    | —    | 1   | —    | 2    | 1    | 1     | —    | 1    | —    |

## **Furness Park Training Centre**

The most encouraging aspect of the Centre work in 1968 was the intake to the Nursery Class of several "under fives". These children together with a few five year olds form a most compatible group with whom we hope to achieve satisfactory work.

The Junior Class was increased by two (children promoted from the Nursery) and work along the usual lines was undertaken by Miss Ball. The Intermediate Group also continued to work in a satisfactory way. Two trainees from this group went into the Adult Centre during the year.

Contract work in the Adult Centre reached a high peak—Dorlux and Fisher (Plastics) being the firms for which the bulk of the work was done. Social efficiency and recreational classes continued under the guidance of Mrs. J. Greenwood. In connection with these classes a visit to Mackintosh's Ltd. was arranged for the Senior Girls. It was enjoyed by all especially as tea was provided and generous "samples" given to everyone. The boys had a film afternoon in the Centre provided by the Army Information Unit.

The usual social events took place on the following dates:—

- |               |  |
|---------------|--|
| 23rd March    | Round Table Spring Party (adults only).  |
| 1st October   | Harvest Festival. Gifts were distributed by trainees to senior citizens.   |
| 12th December | Christmas entertainment. The Ladies' Section of the National Farmers' Union, Halifax, presented us with a slide projector, screen and camera. Trainees entertained parents and friends to tea and a concert. |
| 18th December | Adult Trainees' Party. Suitable entertainment was given by Bradshaw Church Young Wives Group.  |
| 19th December | Junior Trainees' Party. The highlight of this event was the visit of Santa. This year the part was played by Mr. Moore.  |

Both Parties were very happy occasions.

The Ranger Company continued to flourish and to provide interesting activities for some of the Senior Girls.

### **Official visits during the year**

- |           |                                     |
|-----------|-------------------------------------|
| 18th June | Mr. Schiphorst, Ministry of Health. |
| 2nd Dec.  | Health Committee visit.             |

### **Addition to staff**

- |            |  |
|------------|--|
| 1st. Sept. | Mr. Moore, Workshop Instructor, Senior Centre. |
|------------|--|

### **Special Care Unit**

This unit was nearing completion at the end of the year and should be ready for use early in 1969.

## Statistics

| <i>Junior Centre</i>                                      | <i>Males</i> | <i>Females</i> | <i>Total</i> |
|---|--------------|----------------|--------------|
| No. on register 1st January, 1968                         | 16           | 11             | 27           |
| No. on register 31st Dec., 1968..                         | 16           | 12             | 28           |
| 1 boy transferred to Adult Centre                         |              |                |              |
| 1 boy transferred to E.S.N. School.                       |              |                |              |
| 1 girl in hospital  |              |                |              |
| 3 (2 male and 1 female) attending on a part-time basis.   |              |                |              |
| No. of staff: Supervisor and three Assistant Supervisors. |              |                |              |
| <i>Adult Centre</i>                                       | <i>Male</i>  | <i>Female</i>  | <i>Total</i> |
| No. on register 1st January, 1968                         | 24           | 19             | 43           |
| No. on register 31st Dec., 1968..                         | 22           | 19             | 41           |
| Percentage attendance .. .. .                             | 92.5         | 88.9           | 90.7         |
| No. of staff: Male Instructors 2; Female Instructors 2.   |              |                |              |

## DETAILS OF CONTRACT WORK

|   |    |    |    |        |    |    |
|---|----|----|----|--------|----|----|
| Messrs. A. Sykes (Dorlux) Ltd.              |    |    |    | £      | s. | d. |
| Fixing castors to divan beds .. .. .        | .. | .. | .. | 666    | 0  | 0  |
| Cutting polythene panels .. .. .            | .. | .. | .. | 168    | 11 | 11 |
| Scipio Brook Ltd.                           |    |    |    |        |    |    |
| Supplying firewood in bags .. .. .          | .. | .. | .. | 16     | 15 | 0  |
| J. Mac King & Co. Ltd.                      |    |    |    |        |    |    |
| Packing plastic foam .. .. .                | .. | .. | .. | 19     | 12 | 8  |
| Harold Fisher (Plastics) Ltd.               |    |    |    |        |    |    |
| Stripping plastic parts from moulds .. .. . | .. | .. | .. | 378    | 3  | 1  |
| Yorkshire Moulds Ltd.                       |    |    |    |        |    |    |
| Trimming flash from plastic syphons .. .. . | .. | .. | .. | 41     | 16 | 6  |
| John Mackintosh & Sons Ltd.                 |    |    |    |        |    |    |
| Stripping cartons .. .. .                   | .. | .. | .. | 7      | 15 | 0  |
|   |    |    |    | £1,298 | 14 | 2  |

## Value of Laundry Work:

|  |                    |     |   |   |
|--|--------------------|-----|---|---|
| Furness Park Training Centre           | 4,832 items at 5d. | 100 | 0 | 0 |
| Furness Gardens Hostel                 | 2,092 items at 5d. | 43  | 0 | 0 |
| Also printing various cards and forms. |                    |     |   |   |

## Attendance at Pro-Thrombin Clinic, 1967-68

Patients attending the Pro-Thrombin Clinic during 1968 were as follows:—

|             | <i>Male</i> |      | <i>Female</i> |      |
|-------------|-------------|------|---------------|------|
|             | 1967        | 1968 | 1967          | 1968 |
| Under 45 .. | 26          | 29   | 8             | 6    |
| 45 to 50 .. | 15          | 19   | 6             | 4    |
| 51 to 65 .. | 125         | 140  | 48            | 45   |
| Over 65 ..  | 16          | 21   | 4             | 6    |
|             | 182         | 209  | 66            | 61   |

**Summary of work undertaken by the Mental Welfare Officers during  
the year under the Mental Health Act, 1959**

|       |  |    |    |    |    |       |       |
|-------|--|----|----|----|----|-------|-------|
| 1.    | Number of patients referred to the Mental Health Service by:                         |    |    |    |    |       |       |
| (a)   | General Practitioners  | .. | .. | .. | .. | 301   |       |
| (b)   | Relatives  | .. | .. | .. | .. | 163   |       |
| (c)   | Hospitals  | .. | .. | .. | .. | 533   |       |
| (d)   | Psychiatric Clinics  | .. | .. | .. | .. | 294   |       |
| (e)   | Local Education Authority  | .. | .. | .. | .. | 14    |       |
| (f)   | Police..   | .. | .. | .. | .. | 53    |       |
| (g)   | Other sources  | .. | .. | .. | .. | 128   |       |
|       |  |    |    |    |    |       | 1,486 |
| 2.    | Of the patients referred (as para. 1) number:—                                       |    |    |    |    |       |       |
| (a)   | Admitted to hospital under:—   |    |    |    |    |       |       |
| (i)   | Mental Health Act, 1959, s. 5 (Informal)   | .. |    |    |    | 307   |       |
| (ii)  | Mental Health Act, 1959, s. 25 (Observation)   |    |    |    |    | 58    |       |
| (iii) | Mental Health Act, 1959, s. 26 (Treatment)   |    |    |    |    | 9     |       |
| (iv)  | Mental Health Act, 1959, s. 29 (Emergency)   |    |    |    |    | 82    |       |
|       |  |    |    |    |    |       | 456   |
| (b)   | Referred to General Practitioners and Psychiatric Clinics                            | .. | .. | .. | .. | 430   |       |
| (c)   | Referred for After-care (Mental Illness)..   | .. |    |    |    | 392   |       |
| (d)   | Referred for domiciliary visiting (Subnormality)                                     |    |    |    |    | 18    |       |
| (e)   | Referred for Guardianship..  | .. | .. | .. |    | —     |       |
| (f)   | Referred to other social agencies  | .. | .. | .. |    | 84    |       |
| (g)   | Admitted to Training Centres (included in (d) above)                                 | .. | .. | .. | .. | 6     |       |
| (h)   | Other means  | .. | .. | .. | .. | 106   |       |
| 3.    | Number of visits:—   |    |    |    |    |       |       |
| (a)   | Mental Illness   | .. | .. | .. | .. | 4,635 |       |
| (b)   | Subnormality   | .. | .. | .. | .. | 348   |       |
|       |  |    |    |    |    |       | 4,983 |
| 4.    | Number of sessions attended at Psychiatric Clinics                                   | .. |    |    |    | 238   |       |
| 5.    | Number of patients under care of the Local Health Authority on 31st December, 1968:— |    |    |    |    |       |       |
| (a)   | Receiving domiciliary visits:—   |    |    |    |    |       |       |
| (i)   | Mentally ill   | .. | .. | .. | .. | 555   |       |
| (ii)  | Severely subnormal   | .. | .. | .. | .. | 55    |       |
| (iii) | Subnormal  | .. | .. | .. | .. | 153   |       |
| (iv)  | Psychopathic   | .. | .. | .. | .. | 95    |       |
|       |  |    |    |    |    |       | 858   |

|  |       |
|--|-------|
| (b) Receiving training:—                                       |       |
| Males under 16 years .. .. .                                   | 16    |
| Females under 16 years .. .. .                                 | 12    |
| Males 16 years and over .. .. .                                | 22    |
| Females 16 years and over .. .. .                              | 19    |
|  | <hr/> |
|  | 69    |
| (c) Receiving residential care:—                               | <hr/> |
| (i) Theophilus Cottage Hostel (Mental Illness)                 | 5     |
| (ii) Furness Gardens Hostel (Males—Subnormal-<br>ity .. .. .)  | 5     |
| (iii) Furness Drive Hostel (Females—Subnormal-<br>ity .. .. .) | 2     |
|  | <hr/> |
|  | 12    |
|  | <hr/> |

### Physical Handicaps

More work has been done by the department during 1968 in relation to physical disability. The department is responsible for maintaining a Handicapped Persons Register. This is operative for the handicapped persons' welfare between the ages of 2 and 21. Thanks to the Poliomyelitis vaccination programme there are practically no new additions to physical disability from this cause although, in 1968, one child was added to the register. The Medical Officer of Health is President of the Poliomyelitis Fellowship and this gives him an opportunity of bringing to the Fellowship any services which are required from the Health Department. This had mainly to do with the prevention of polio in relations and to ensure that full co-ordination is made with the work of the Welfare Services Department.

The work of the Polio Fellowship is concerned mainly with social functions, outings and swimming galas. During the year the National Swimming Contests were held at the Halifax Baths and in the matter of assessing the diving and swimming the Medical Officer had the services of Mr. Gill, Orthopaedic Surgeon. A great number of spastics are dealt with by the Medical Officer of Health as Principal Medical Officer but apart from the registration of contacts, the department is not closely associated with the Spastics Society.

### Epilepsy

During the year a survey of all epileptic cases was made by the Medical Officer in relation to possible brain damage associated with fits. A report was made to the Disablement Advisory Committee.

### Furness Park Training Centre

A new unit was inaugurated for physical and mental handicaps at the Furness Park Training Centre. The unit takes eight disabled children on a sessional basis. The unit has been very effective in relieving the home of many pressures and anxieties.

## **Multiple Sclerosis Society**

There has been little change in the patient situation this year as compared with 1967. The local Branch of the Society is thriving and there is now a separate branch looking after patients in the Calder Valley area which lies outside the boundary of the Borough of Halifax.

The Branch have this year purchased a new Bedford Dormobile type of vehicle fitted to carry sitting patients and also able to cope with a patient in a wheel chair. This vehicle has done good work taking patients to the seaside for holidays and also collecting patients for the monthly socials which are held regularly. This ensures that most patients are taken out of their home environment for a short time at least. At the socials patients are able to compare notes; they have a supper and a concert and usually a raffle, the proceeds of which go to funds and help pay for incidental expenses incurred in running the social.

There have been several Bring and Buy Sales, Jumble Sales, and participation in a Charity Gala. The proceeds of these events are donated to local Branch funds to pay for patients going on holiday to different resorts. There is also a fund which is supported by local donations for furthering research into the cause and cure of Multiple Sclerosis.

Each patient receives at Christmas a present and also a present on their birthdays. There is held annually a Christmas party and also an outing in the summer to some popular place which is not too far away.

The recent research at Leeds University, which includes highly technical equipment, continues, and those concerned are confident that the disease is due to anti-allergy. This may be one step to the complicated understanding which will allow specific treatment or prevention to be brought into use. There must be no undue optimism but progress is being made.

## **Multiple Sclerosis Patients**

There are several patients who are in-patients at St. John's Hospital. All the ladies were on the same ward, but most of these have now been moved to Northowram Hall Hospital. Contact with them is not quite so easy now, due mainly to the distance of the hospital from the town centre. None of them are very happy there; they described the move as having to leave their homes and go to another one.

The Society endeavours to get patients away on holidays, mainly to Southport. The Health Department assists the University of Leeds in research projects, and with the Society is responsible for founding. There are good relationships.

Miss A. M. used to live at Newstead and was moved to St. John's. Is now at Northowram, at the moment seriously ill.

Mrs. A. D. of Boothtown still lives in a small flat suitable to her needs. Is seriously deteriorating but still in good spirit.

Mrs. P. H. is in White Windows, Sowerby Bridge. She is confined to her wheel chair, but seems in good heart. Patients there are well looked after.

Mrs. L. H. is living on the top floor of one of the high flats in Haley Court and liking there very much. She is completely immobile but enjoys what small pleasures she has. She is well looked after by her husband and daughter who are devoted to her. She is also visited by the District Nurses and a lady from the Local Authority who bathes her. All these amenities she values and appreciates.

Mrs. H., of Illingworth, does not attend any socials or meetings. She is well looked after by her husband and gives the impression she does not require outside help.

Miss M. F., Clay Street. This lady is deteriorating and her housing condition leaves much to be desired. The house she lives in is very dilapidated. Some attempt was made to rehouse her but at the time she was reluctant to leave her home.

Mrs. S. is still in St. John's Hospital along with Mrs. B. Both suffer from M.S. Neither can walk but they seem to be fairly content.

Mr. W., Ovenden, died during the year. He seemed to develop a good deal of renal trouble and was in and out of hospital frequently.

Mr. R. G. will not leave his home. It seems impossible to help him. Even his own family can not persuade him to visit them.

Mr. J. H. There is a slow deterioration but his home conditions are good: his wife devotes her time to him, there are visits from the nurses and he has had two holidays, one at Blackpool and one at Southport. But he prefers home.

Mrs. E. M. lives alone but has close neighbours who pop in to see her. She seems to keep going pretty well. She did have a depressing time for a period but has got over this. Her worry is that she is not able to see very well. She has been on holiday with the Society for the Blind and Partially Sighted.

Mrs. E. W., Pye Nest, lives with her husband and small daughter, aged eleven. Her husband is unable to work because of a skin condition and has been off work for about twelve months. They do a great deal of work for the M.S. Society in the way of making things for sales and bazaars.

The local branch of the Society work hard to provide funds for holidays and local entertainment for its members. The funds are raised through Bring and Buy Sales, Charity Gala stalls and the sale of Christmas Cards. Each patient member receives a birthday card on their birthday and also a gift. They also receive at the Christmas party a Christmas gift, usually a sum of money, which they all appreciate.

Devoted service has been given to the Multiple Sclerosis Society by Mr. William Fitton, our ambulance officer, who in addition to administering the complicated arrangements for transport is, along with his wife Mary, also very much involved in general welfare. The patients do appreciate very much his work and we in the department are much indebted to him for his voluntary services to the Health Department in this humanitarian service.

### **Home Helps**

The Home Helps have worked 116,501 hours in 1,012 homes during 1968. This has been a very satisfactory year and help has been provided for all cases in need within a short time of referral to the Department.

The work of the Home Helps has been streamlined in that they have only undertaken the tasks which the householder has been unable to do. This has resulted in a financial saving in that more cases have been handled with the resources remaining constant and, at the same time, it proving good therapy to keep aged persons as active as possible by their doing the lighter jobs themselves. Priority has been given to people unable to shop for and prepare food and/or light their own fires.

As with the current national trend, the bulk of the work has been mainly in the geriatric field and a further decrease in the number of maternity cases is recorded. It is noted that the majority of the cases served are on a long-term basis and this accounts for the case load carried forward to the following year being heavier.

The high rate of sickness amongst the Home Helps has caused concern and during January and December respectively 946 and 980 paid working hours were lost.

The Night-Sitter Service has worked well and help has been given to 41 cases during the year.

The majority of the users of both the Home Help and Night-Sitter Services have been genuinely grateful for the work that has been done and the letters of appreciation and verbal thanks received in the office have encouraged all concerned to carry on with greater effort, knowing how very worthwhile this work is.

There is little doubt that the domiciliary services in Halifax are working together very closely and there has been good liaison between the Welfare Services Department and the General Practitioners and this Section. The Medical Social Workers at the local hospitals have also been most helpful.

Appreciation is expressed to all those who have contributed to the work of the Home Help and Night-Sitter Services especially to the Home Helps themselves. They have faced very difficult and trying circumstances from time to time with their customary cheerfulness and this augurs well for their dedication to this work.

Number of Home Helps at end of year 1968:

|            |    |    |    |    |    |    |    |
|------------|----|----|----|----|----|----|----|
| Whole-time | .. | .. | .. | .. | .. | .. | 12 |
| Part-time  | .. | .. | .. | .. | .. | .. | 77 |

No. of Night-Sitters at end of year 1968:

|            |    |    |    |    |    |    |   |
|------------|----|----|----|----|----|----|---|
| Whole-time | .. | .. | .. | .. | .. | .. | 2 |
| Part-time  | .. | .. | .. | .. | .. | .. | — |

*No. of cases  
where domestic  
help was pro-  
vided during  
the year 1968*

*No. of hours  
worked*

*Cases  
Completed*

|                      |    |             |               |           |
|----------------------|----|-------------|---------------|-----------|
| Maternity/ante-natal | .. | 27          | 579           | 17        |
| Chronic sick         | .. | 894         | 103890        | 235       |
| Tuberculosis         | .. | 7           | 722           | 5         |
| Housewife ill        | .. | 51          | 4,554         | 23        |
| Husband ill          | .. | 7           | 756           | 3         |
| Mental Health        | .. | 4           | 127           | 3         |
| Blind                | .. | 13          | 2,336         | 8         |
| Family Care          | .. | 5           | 2,407         | 4         |
| Problem Families     | .. | 4           | 1,128         | —         |
|                      |    | <hr/> 1,012 | <hr/> 116,499 | <hr/> 298 |

No. of applications for help received: 532 (including 148 abortive).

**TABLE I**  
**Comparison Table of New Cases**

|                                | 1967      | 1968      |
|--------------------------------|-----------|-----------|
| Chronic sick (including blind) | 387       | 321       |
| Tuberculosis                   | 1         | 5         |
| Mental Health                  | 6         | 1         |
| Maternity and Ante-natal       | 25        | 23        |
| Housewife ill                  | 40        | 29        |
| Husband ill                    | 5         | 6         |
| Problem families/Family care   | 4         | 4         |
|                                | <hr/> 468 | <hr/> 389 |

**TABLE II**  
**Comparison Table of Case Loads**

|                       | 1966  | 1967  | 1968  |
|-----------------------|-------|-------|-------|
| Cases brought forward | 459   | 537   | 613   |
| New Cases             | 355   | 468   | 389   |
|                       | <hr/> | <hr/> | <hr/> |
| Cases for year        | 814   | 1,005 | 1,002 |
| Cases finished        | 277   | 392   | 298   |
|                       | <hr/> | <hr/> | <hr/> |
| Cases carried forward | 537   | 613   | 704   |

**TABLE III**  
**Comparison Table of Hours Worked**

|                                 | 1967          | 1968          |
|---------------------------------|---------------|---------------|
| Chronic sick (inc. Blind) ..    | 98,248        | 106,226       |
| Tuberculosis .. .. .            | 620           | 722           |
| Mental Health .. .. .           | 396           | 127           |
| Maternity and ante-natal ..     | 716           | 579           |
| Housewife ill .. .. .           | 6,558         | 4,554         |
| Husband ill .. .. .             | 169           | 756           |
| Problem families/Family Care .. | 724           | 3,535         |
|                                 | <hr/> 107,431 | <hr/> 116,499 |

**TABLE IV**  
**Analysis of Hours Paid**

|                                     | 1967          | 1968          |
|-------------------------------------|---------------|---------------|
| Hours worked .. .. .                | 107,434       | 119,754       |
| Added time .. .. .                  | 70            | 70            |
| Travelling time .. .. .             | 2,156         | 2,754         |
| Sickness .. .. .                    | 6,364         | 6,641         |
| Leave .. .. .                       | 7,987         | 6,984         |
|                                     | <hr/> 124,011 | <hr/> 136,203 |
| Total Hours Paid .. .. .            |               |               |
| Wastage, i.e. hours paid not worked | 16,573        | 16,450        |

**TABLE V**  
**Domiciliary Visits**

| 1966  | 1967  | 1968  |
|-------|-------|-------|
| 1,658 | 1,532 | 1,289 |

**TABLE VI**  
**Night-Sitter Service**

|                |                     | 1967                |                        |                     | 1968                |                        |
|----------------|---------------------|---------------------|------------------------|---------------------|---------------------|------------------------|
|                | <i>No. of cases</i> | <i>Hours worked</i> | <i>Nights Attended</i> | <i>No. of cases</i> | <i>Hours worked</i> | <i>Nights Attended</i> |
| Male ..        | 9                   | 701                 | 62                     | 14                  | 697                 | 60                     |
| Female ..      | 32                  | 4,552               | 473                    | 27                  | 2,555               | 251                    |
|                | <hr/> 41            | <hr/> 5,253         | <hr/> 535              | <hr/> 41            | <hr/> 3,252         | <hr/> 311              |
| Cases finished | 35                  |                     |                        | 37                  |                     |                        |
| Cases cd. fwd. | 6                   |                     |                        | 4                   |                     |                        |

## SECTION III

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### NATIONAL HEALTH SERVICE ACT, 1946

HEALTH CENTRES

CARE OF MOTHERS AND YOUNG CHILDREN

CHILD HEALTH CLINICS

ANTE-NATAL CLINICS

PLAY GROUPS : MOTHER AND BABY CLUBS

DAILY NURSERY AND NURSERY SCHOOLS

DAY NURSERIES AND CHILDMINDING

MORAL WELFARE

MIDWIFERY

HEALTH VISITING

HOME NURSING

VACCINATION AND IMMUNISATION

## HEALTH CENTRES

In the Annual Report 1967 (pages 68, 69) a very full account of the attempts to interest general practitioners in Health Centres was reviewed. The need was explained and in particular the importance of integrating the work of all branches of the N.H.S.

On the 21st March, 1968, the Health Committee met representatives of the Health Executive Council and various sites were discussed. Myrtle Avenue site, which is in the ownership of the Corporation, was considered unsuitable in regard to accessibility and the Executive Council stated that at most it could only accommodate six doctors, whereas space for 12 doctors should be available. As an alternative, Ovenden Cross, for which compulsory purchase would be required, was decided upon. The question of sub-centres in Mixenden and Illingworth was not considered further since the Health Centre must be "seen as such" and the retention of "small practices" in the area would be disastrous. No provision by the Executive Council was requested for dentists, chemists and opticians.

Following this meeting, the Medical Officer of Health received enquiries from chemists in the area but despite changes in regulations which allowed the retention of private status, the difficulties of accommodating the non-dispensing aspects of pharmacies made projects of this type unweildy. Suggestions for the inclusion of dispensing alone within the Health Centre were considered inadequate. A special working party appointed in June, 1968, following official discussions, met weekly in the Health Department. Plans were prepared by the architect, which after consideration by the Ministry of Health and modified in relation to treatment facilities, Health Education and Chiropody, the local Health Authority were promised loan sanction in the year of scheme submission.

The final plan was for a seven-doctor practice centre; the majority of the doctors would operate an appointment system. Thus far the arrangements were harmonious and offered some prospect of attracting younger practitioners to the town, of which the Committee had received the sombre warning, that the "designated" status could be disastrous for the town if allowed to continue. In the meantime, in spite of a much greater proportionate shortage of doctors, health visitors and social workers, that section of the proposed centre quota, Health Visitors, Midwives and Nurses carried out their duties effectively in ad hoc accommodation in church halls, etc.

### Care of Mothers and Young Children

Each year the Health Department becomes aware of greater effort required in the care of mothers and young children. The reasons are social and clinical. More mothers go out to work to eke out difficult economic need, there are more unwanted pregnan-

cies in spite of better instruction on contraception and, on the clinical side, there is better general survival and in addition an increasing range of defects.

Some progress has been made in the preventive services to safeguard the health of children and now we refer to "health" clinics and family "health" in relation to the routine medical examinations, the advice given on infant nutrition and hygiene and in the tests, special and routine, to uncover defects, all of which are carried out at the Laura Mitchell Clinic. Previously the adjective "welfare" was used but the techniques in assessment and prevention together with health education demand a range of effort more comprehensive than can be included under "welfare" alone.

For convenience the work is divided according to several categories having regard to (1) normal social and health development; (2) where special social supervision (not excluding higher income groups) is required; and (3) where a handicap, physical or mental, is present. Central to all is the Health Clinic, and through the Health Visitor the interest of the Department in normal development is maintained by contact with play groups, the daily nursery, mother and baby clubs, and nursery schools.

Under normal development effort is either child or mother centred, and mother and baby clubs may cater specially for the mother or child.

During the year the Health Department secured membership of the P.P.A. and under the guidance of Miss E. Holdsworth, the Daily Nursery at the Laura Mitchell Clinic caters for infants of mothers and staff who may be attending the clinic.

Day nurseries at Craigie Lea and Ling Bob cater almost exclusively for babies and toddlers living under difficult social circumstances and there is good liaison between them and Miss Weston, the Moral Welfare Social Worker.

A register is kept of all children being visited by the Health Visitor (and each infant has a special card on which birth and health details and family background are recorded).

In full use also during 1968 a system of registration has been maintained. Of children at risk, children with congenital malformations observable at birth, and children with handicapped conditions. A satisfactory relationship exists with the hospitals and general practitioners, between whom there is a free passage of information. Dr. Ruane, the first school medical officer, maintains a link between the Hospital Paediatric Departments and with the Education and Health Departments. Children who are maladjusted are seen by the Child Psychiatrist, a portion of whose salary is paid for by the Local Health Authority. The Standing Medical Advisory Committee on Child Health Centres laid emphasis on family health, including child health, being a primary preventive function of the general

practitioner working within a health centre. So far neither the health centre nor the family doctor practising developmental paediatrics has materialised. During the year preparation has proceeded for the implementation in 1969 of Part IV, Section 6J, of the Health Services and Public Health Act, 1968, which was received in August, 1968. This amends the Nurseries and Child Minders Act, 1948, in order to remove various deficiencies which have been evident in its operation. Some of these are connected with the control of unofficial child minding which unfortunately is allowed to operate at present through loopholes in the law.

|  |         |       |
|--|---------|-------|
| Number of infants on "At Risk" Register                    | .. ..   | 156   |
| Number of children on "Handicapped" Register               |         | 37    |
| No. of hospital reports received from consultants          | ..      | 2,500 |
| No. of domiciliary visits paid by M.O.H. and medical staff | .. .. . | 100   |
| No. of children waiting for day nurseries at end of 1968   |         | 52    |
| No. of child minders, 31.12.68                             | .. .. . | 1     |
| No. of children being minded as at 31.12.68                | .. ..   | 6     |

### Child Health Clinics

During the year the work of the Maternal and Child Health Clinics has been maintained. That the reader may glean some idea of the work of Developmentary Paediatrics a table of development is included on page 85. These "milestones" are noted by the Health Visitor and Child Health Doctor and where they indicate low development treatment as necessary is arranged and, at the same time, the name and other particulars are placed in the appropriate register.

### CHILD HEALTH CLINICS 1968

| No.<br>of<br>Sessions | Attendances |        |           |       | Medical Officers'<br>Consultations |              |
|-----------------------|-------------|--------|-----------|-------|------------------------------------|--------------|
|                       | 0-1 year    |        | 1-5 years |       |                                    |              |
|                       | 1st         | Sub.   | 1st       | Sub.  | Under<br>1 year                    | 1-5<br>years |
| 484                   | 1,213       | 10,142 | 144       | 3,482 | 1,215                              | 4,611        |

The following table shows attendances at the Child Health Clinics during recent years:

| Year                | 1963   | 1964   | 1965   | 1966   | 1967   | 1968   |
|---------------------|--------|--------|--------|--------|--------|--------|
| No. of sessions ..  | 475    | 476    | 483    | 483    | 484    | 484    |
| Total attendances   | 14,919 | 17,481 | 17,875 | 17,232 | 16,246 | 14,981 |
| Average attendances | 31     | 36     | 37     | 35     | 34     | 30     |

# VOLUNTARY CHILD MINDING

| Name and Address of Applicant  | Play Group Premises  | Designation                                    | Permitted Number | Days in Attendance                         | Times in Attendance           |
|--|--|--|------------------|--|-------------------------------|
| Mrs. Cochran and Mrs. Jackson,<br>19 Pye Nest Road, Halifax.   | St. Paul's Church, King Cross.                                   | St. Paul's Play Group.                         | 20               | Mon.,<br>Wed. Fri.                         | 9.30 a.m.<br>to 12 noon       |
| Mrs. Wadsworth, 25 Willowfield<br>Road, Halifax.   | The Stables, Savile Road.  | Trinity Play Group.                            | 20               | Mon. Tue.<br>Thu. Fri.                     | 9 a.m. to<br>12 noon          |
| Mrs. French and Mrs. Mallinder,<br>16 Kelvin Avenue, Trimmingham,<br>Halifax.                              | St. John's Church, Warley.                                       | Warley St. John Play Group.                    | 25               | Mon.<br>Wed.<br>Fri.                       | 9.30 a.m.<br>to 11.45<br>a.m. |
| Mrs. Horrocks-Taylor,<br>107 Savile Park Road, Halifax.  | St. Jude's Church Hall.  | St. Jude's Pre-School Play<br>Group.           | 30               | Mon.<br>Wed. Fri.                          | 9.15 a.m.<br>to 11.45         |
| Mrs. Thompson, 19 Baxter Lane,<br>Northowram, Halifax, and<br>Mrs. Varney,<br>3 Yew Trees Avenue, Halifax. | Ebenezer Methodist Sunday<br>School, The Green, Northow-<br>ram. | Mother and Baby Club.                          | Not fixed        | Thurs.                                     | 2 to 4<br>p.m.                |
| Mrs. Steadman,<br>1 Windmill Drive, Halifax  | St. Matthew's Church,<br>Northowram Church Hall.                 | Northowram Under-Fives.                        | 30               | Wed. in<br>summer.<br>Tue. Thu.<br>winter. | 2 to 4                        |
| Mrs. Sands,<br>7 Valley Grove, Holmfield.  | Forest Cottage Community<br>Centre.                              | Forest Cottage Community<br>Centre Play Group. | 16               | Thurs.                                     | 9.30 a.m.<br>to 11.30<br>a.m. |
| Mrs. Moran,<br>3 Hill View, Holmfield.   | 3 Hill View, Holmfield.  | Holmfield Play Group.                          | 6                | Mon. Tue.<br>Wed.                          | 1.30 p.m.<br>to 3.30<br>p.m.  |

|  |   |  |    |                               |                               |
|--|---|--|----|-------------------------------|-------------------------------|
| Mrs. Denise Fawcett and<br>Mrs. King,<br>17 Sefton Terrace, Halifax.   | St. Augustine's Vicarage,<br>Hanson Lane.             | St. Augustine's Play Group.                      | 17 | Tues. and<br>Thurs.           | 9.15 a.m.<br>to 11.30<br>a.m. |
| Mrs. S. M. Hussey,<br>21 Pye Nest Road, Halifax.   | St. James' Mission, Pye Nest.<br>(Edwards Road).      | Pye Nest Play Group.                             | 25 | Mon. Tue.<br>Thurs. &<br>Fri. | 9.15 a.m.<br>to<br>11.45 a.m. |
| Mrs. P. Williams,<br>93 Hunter Hill Road, Mixenden.  | Mixenden Community Centre.                            | Mixenden Play Group.                             | 30 | Mon., Wed. &<br>Fri.          | 9 a.m. to<br>12 noon          |
| Mrs. D. J. Eastwood,<br>13 Riverwood Drive, Copley,<br>Halifax.  | Copley Community Centre.                              | Copley Play School.                              | 18 | Mon. &<br>Fri.                | a.m.                          |
| Mrs. Beddoe,<br>7 Hyde Park Gardens, Halifax.  | Holy Nativity Church,<br>Sunnybank Road, Mixenden.    | Mother and Baby Club.                            |    | Wed.                          | 2 to 3.30<br>p.m.             |
| Mrs. Kershaw, 6 Whinneyfield,<br>Huddersfield Road, Halifax.   | St. Andrew's Methodist Church,<br>Huddersfield Road.  | St. Andrew's Play Group.                         | 24 | Wed. &<br>Thurs.              | 9.15 a.m.<br>to 11.55<br>a.m. |
| Mrs. Tucker, 1 Sandown Road,<br>Cousin Lane, Halifax.  | Illingworth Moor Methodist<br>Church, Keighley Road.  | Illingworth Moor Methodist<br>Church Play Group. | 12 | Mon. &<br>Thurs.              | 9.30 a.m.<br>to 11.30<br>a.m. |
| Mrs. Walton, 119 Beechwood<br>Road, Halifax.   | St. Andrew's Church Hall,<br>Holmfield.               |  |    |                               |                               |
| Mrs. Mary Loney, c/o Halifax &<br>District Community Relations<br>Council, 5a Gill's Court,<br>Waterhouse Street, Halifax. | St. Mary's Youth Centre,<br>Clarence Street, Halifax. | Clarence Street Play Group.                      |    | Tues. &<br>Thurs.             | 9.30 a.m.<br>to 12<br>noon    |

## AUDIOLOGY—Hearing Tests

Attendances at Screening Clinic . . . No cases referred to  
Audiology Clinic during 1968.

## ISSUE OF WELFARE FOODS

|                     |                |
|---------------------|----------------|
| National Dried Milk | 4,883 tins     |
| Ostermilk .. ..     | 16,343 tins    |
| Trufood .. ..       | 5,494 tins     |
| Cow & Gate .. ..    | 3,987 tins     |
| SMA .. ..           | 967 tins       |
| Orange Juice .. ..  | 19,680 bottles |
| Cod Liver Oil .. .. | 1,870 bottles  |
| Vitamin A & D .. .. | 956 packets    |

## PHENYLKETONURIA TESTS

| Health Visitors | Midwives | Positive |
|-----------------|----------|----------|
| 1,381           | 505      | Nil      |

Frequency of attendance varies in different centres. They should be often enough for the Health Visitor to form a relationship with mother and baby and to allow for observations in development. No action related to development can be taken by the Health Visitor on her own account, except to report to the Clinic doctor who, after careful physical examination, will take appropriate steps in notifying the general practitioner and arranging special examinations. Basic data obtained on the individual infant and child development are physical, psychological, muscular and reflex co-ordination, special sensory change and social progress. The Sheldon Committee clinic structure is adhered to and no medicaments are prescribed; more and more the psychological aspects of child care, together with family health and welfare, are assessed, but it is only in special cases of need that reference is made to the Child Psychiatrist.

These observations are used to assess the infants' "milestones" of development at various stages:—

(W=Weight in lbs.; H=Height; C=Cranial circumference in inches to nearest digit.)

| <i>Development</i>  | <i>W</i> | <i>H</i> | <i>C</i> |
|---|----------|----------|----------|
| <b>Age 7 days</b>   |          |          |          |
| Sucks vigorously. Distinguishes between bitter and sweet substances placed on the tongue. Eyes often follow a light. .. ..  | 7        | 20       | 13       |
| <b>Age 1 month</b>  |          |          |          |
| Notices if food and bath are too hot or too cold. Eyes rest momentarily on light or bright object. Is quietened by voice. .. ..   | 8        | —        | 14       |
| <b>Age 2 months</b>   |          |          |          |
| Recognizes and smiles at mother. Lifts head when prone. Interested in ticking of watch held to ear. .. ..   | 10       | —        | 15       |
| <b>Age 3 to 4 months</b>  |          |          |          |
| Eyes follow a moving object. Turns head in direction of sounds. Moves hands towards an object held in front of it. Hands predominantly open. Cry varies with hunger, anger, fear and pain. Smacks lips at sight of breast or bottle in mother's hands. Laughs aloud.. | 13       | —        | 16       |
| <b>Age 5 months</b>   |          |          |          |
| Turns head to person talking or singing. Deliberately seizes and carries object to mouth. Partial opposition of thumb. Rustles paper. Begins to lift head and shoulders. Makes cooing and babbling sounds .. ..   | 14       | —        | 16       |
| <b>Age 6 months</b>   |          |          |          |
| Notices and recognizes a number of common objects. Sits up with slight support. Anticipatory movements when about to be lifted. Holds a spoon. Takes toy from table. Cuts two lower central teeth .. ..   | 15       | 25       | 16       |
| <b>Age 9 months</b>   |          |          |          |
| Sits erect in chair. If placed on floor makes attempts to crawl. Helps to hold cup for drinking. Hand movements very active. Definite signs of curiosity, interest and attention. Knows names of a number of common objects and of some of his relations .. ..        | 17       | —        | 17       |

#### Age 12 months

Stands alone. Can walk when led. Says three words clearly. Plays "Pat-a-cake". Feeds from spoon. Drinks out of cup. Unwraps sweet from paper. Obeys many simple requests. Co-operates in being dressed. Six teeth present. .

20 23 17

#### Age 18 months

Walks and runs freely. Tries to climb into chair. Tries to put on shoes. Uses a spoon. Has control over bowels. Twelve teeth present.

22 29 18

#### Age 2 years

Helps actively to dress or undress. Says sentences of two or three words. Matches primary colours. Likes to build bricks. Points out objects in pictures. Has control over bladder. Sixteen to twenty teeth present. . . .

25 32 18

#### Age 3 years

Copies building with bricks. Draws a circle. Knows names and uses of many common objects. Puts on shoes. Threads beads. Fetches and carries to command. Knows own sex. Knows name and surname. Begins to ask questions as to "why" and "what for". . .

30 35 19

#### Age 4 years

Matches simple shapes. Identifies objects by use. Tells the longer of two lines. Buttons and unbuttons. Dresses and undresses with slight assistance. Goes to lavatory alone . . . .

34 38 19

#### Age 5 years

Makes little drawings. Defines words in terms of use. Describes actions in pictures. Shows considerable determination and will. Gives sensible answers to simple questions. . .

40 41 20

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### Ante-natal Clinic

The work of ante-natal care may be, of all clinical procedures, the most important in regard to the care of women. It includes health education, physical conditioning for pregnancy and the detection of abnormalities which, if recognised at one of the routine scheduled sessions, can result in safe pregnancy and delivery without fear. Rh. negative women can now be immunised with anti-D serum against the damaging effect of antibodies on the foetus.

## ANTENATAL CLINICS

Ante-natal care includes physical and dental examinations, estimations of blood pressure, urine analysis and blood testing. The following is a summary of blood tests for 1967-68:

|   | 1967 | 1968 |
|---|------|------|
| Number of blood samples taken for the first time during the pregnancy .. .. . | 546  | 416  |
| Total number of blood samples taken .. .. .                                   | 850  | 744  |
| Number of blood samples taken where rhesus anti-bodies detected .. .. .       | 3    | 3    |
| Number of rhesus positive cases .. .. .                                       | 666  | 721  |
| Number of rhesus negative cases .. .. .                                       | 146  | 59   |

### ANTE-NATAL CLINIC ATTENDANCES

| Year | Number of Sessions per Month | New Cases | Total Attendances |
|------|------------------------------|-----------|-------------------|
| 1967 | 16                           | 633       | 2,256             |
| 1968 | 16                           | 593       | 1,857             |

## DENTAL TREATMENT

|                               | No. examined | Treatment commenced | Treatment completed | Treatment Provided |          |             |              |          |              |
|-------------------------------|--------------|---------------------|---------------------|--------------------|----------|-------------|--------------|----------|--------------|
|                               |              |                     |                     | Scaling            | Fillings | Extractions | Genl. Anaes. | Dentures | Radio-graphy |
| Expectant and nursing mothers | 14           | 3                   | 9                   | 4                  | 21       | 22          | 1            | 4        | 2            |
| Children under five           | 161          | 142                 | 153                 | 37                 | 37       | 242         | 126          | 3        | Nil          |

### Play Groups and Mother and Baby Club

Sixteen voluntary groups attached mainly to churches were in existence during the year. Fifteen of these are Play Groups meeting two to three times per week and one is a Mother and Baby Club.

These groups promote socialisation and are in the main child centred, but in the Mother and Baby Club the mother receives

special consideration. Young women with their first child may have little idea as to how to instigate and participate in play, and consequently feel inadequate, lack confidence and with the resulting tension the relationship between mother and child deteriorates and soon the whole family may be affected. For women such as this the Mother and Baby Club is ideal.

### **Daily Nursery and Nursery Schools**

The Daily Nursery and Nursery School, like the P.G. and M. and B.C., are for normal children and assist the child to recognise shapes, colours and sounds, and in general prepare him for day school. The Nursery School is, of course, educationally controlled and the Daily Nursery is a successful new feature, introduced in August, 1968, with the opening of the Laura Mitchell Clinic. Details are as follows:—

*October 14th, 1968 to December 31st 1968.*

|                          |                                |
|--------------------------|--------------------------------|
| 150 children registered. | 137 attended before Dec. 31st. |
|                          | 11 never turned up             |
|                          | 2 turned up in January         |

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150

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19 left before 31st December (Children didn't settle or didn't attend regularly.

During October 537 attendances from 128 children.

During November 699 attendances from 122 children.

During December 683 attendances from 137 children.

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Total attendances 1,919 from 137 children.

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Average weekly attendance: 160.

Possible weekly attendance: 240.

Play equipment used: water play, sand, paints, crayons, chalks, clay, scissors, sticking, bricks.

Outdoor equipment if fine: swings, slide, rocking boat, round-about, see-saw.

Educational toys: jigsaw; things for matching and fitting.

### **Day Nurseries**

Regarding the groups described above no meals are served. In Day Nurseries the children arrive early in the morning and may receive three meals per day. Day Nurseries fulfil a special role for the simple reason that no other person is available to care for the

child if the mother is ill or at work. Physically (and sometimes mentally) handicapped children can be helped by normal play associations, but neither the voluntary nor official groups should have more than one handicapped child at a session. Mentally handicapped children below the age of 5 can, before ascertainment, be admitted informally to the Furness Park Junior Training Centre. In 1969 a new special care unit will be opened and may admit children with a double handicap.

### **Craigie Lea**

Last year we had quite a few new members of staff including a new nursery nurse. Two girls went to do training at College and four girls left to have their own babies.. Mr. Mountain had a good year in the garden. We had a great deal of both vegetables and fruit. There were only two break-ins but we had a lot of mess to clean up and toys were broken. We had no serious accidents only minor abrasions.

#### **Attendances at Craigie Lea**

|                                     |    |    |    |    |    |
|-------------------------------------|----|----|----|----|----|
| No. of Children on Register, 1.1.68 | .. | .. | .. | .. | 76 |
| No. added to Register               | .. | .. | .. | .. | 96 |
| No. removed from Register           | .. | .. | .. | .. | 91 |
| No. remaining on Register, 31.12.68 | .. | .. | .. | .. | 81 |

#### **Reasons for Admission to Nursery during 1968**

| <i>Categories</i>             | <i>No. on Register<br/>1/1/68</i> | <i>No. Admitted<br/>during 1968</i> | <i>No. on Register<br/>31/12/68</i> |
|-------------------------------|-----------------------------------|-------------------------------------|-------------------------------------|
| Illness of Parents            | 5                                 | 7                                   | 4                                   |
| Debilitated Children          | 1                                 | 2                                   | —                                   |
| Confinement                   | —                                 | 2                                   | —                                   |
| Illegitimacy                  | 20                                | 24                                  | 19                                  |
| Children of Widowers/Widows   | 7                                 | 2                                   | 4                                   |
| Parents Separated             | 22                                | 22                                  | 13                                  |
| Father in H.M. Forces         | 1                                 | 2                                   | 1                                   |
| Adverse Housing Conditions    | —                                 | 4                                   | 2                                   |
| Poor Financial Circumstances  | 16                                | 27                                  | 28                                  |
| Others, Teachers and Business | 4                                 | 4                                   | 10                                  |

#### **Average Number of Children Attending**

|                     | <i>Quarterly</i> | <i>Weekly</i> | <i>Daily</i> |
|---------------------|------------------|---------------|--------------|
| January to March    | 3,505            | 270           | 54           |
| April to June       | 3,563            | 274           | 55           |
| July to September   | 2,913            | 265           | 53           |
| October to December | 3,678            | 283           | 57           |

### Infections Diseases – Completed Injections

|                |    |    |    |   |               |              |
|----------------|----|----|----|---|---------------|--------------|
| Chickenpox     | .. | .. | .. | 4 | <i>Triple</i> | <i>Polio</i> |
| Measles        | .. | .. | .. | 6 | 9             | 6            |
| German Measles | .. | .. | .. | 1 |               |              |
| Whooping Cough |    | .. | .. | 2 |               |              |
| Scarlet Fever  | .. | .. | .. | 1 |               |              |
| Jaundice       | .. | .. | .. | 2 |               |              |

### Attendances at Ling Bob

|                                     |    |    |    |    |    |
|-------------------------------------|----|----|----|----|----|
| No. of Children on Register, 1.1.68 | .. | .. | .. | .. | 48 |
| No. added to Register               | .. | .. | .. | .. | 75 |
| No. removed from Register           | .. | .. | .. | .. | 65 |
| No. remaining on Register, 31.12.68 | .. | .. | .. | .. | 49 |

(Plus 5 part-time)

### Reasons for Admission to Nursery during 1968

| <i>Categories</i>             | <i>No. on Register 1/1/68</i> | <i>No. Admitted during 1968</i> | <i>No. on Register 31/12/68</i> |
|-------------------------------|-------------------------------|---------------------------------|---------------------------------|
| Illness of Parents            | ..                            | 4                               | 1                               |
| Debilitated Children          | ..                            | –                               | –                               |
| Confinement                   | ..                            | 5                               | –                               |
| Illegitimacy                  | ..                            | 14                              | 9                               |
| Children of Widowers/Widows   | 2                             | 3                               | 1                               |
| Parents Separated             | ..                            | 11                              | 4                               |
| Father in H.M. Forces         | ..                            | 1                               | 1                               |
| Adverse Housing Conditions    | ..                            | 1                               | 1                               |
| Poor Financial Circumstances  | ..                            | 10                              | 13                              |
| Others, Teachers and Business | ..                            | 26                              | 24                              |

### Infectious Diseases

|                |    |    |    |   |
|----------------|----|----|----|---|
| Chicken Pox    | .. | .. | .. | 1 |
| Measles        | .. | .. | .. | 6 |
| Mumps          | .. | .. | .. | 2 |
| Meningitis     | .. | .. | .. | 1 |
| German Measles | .. | .. | .. | 2 |
| Whooping Cough | .. | .. | .. | 1 |

### Injections Given and Completed

1 vaccination for Small Pox.  
 14 Poliomyelitis.  
 7 Triple.

Ten staff attended the Laura Mitchell Clinic for Chest X-ray: all were satisfactory.

A doctor now attends at the Nursery the first Monday each month for medical inspections and injections.

There has been no accidents other than minor ones which were attended to at the Nursery.

The average attendance has been 34%, a slight decrease on 1967.

### DAY NURSERY ATTENDANCES 1968

| Attendances                        |    |    |  | Craigie<br>Lea | Ling Bob |
|------------------------------------|----|----|--|----------------|----------|
| No. of children on register 1/1/68 | .. | .. |  | 76             | 48       |
| No. added to register .. ..        | .. | .. |  | 96             | 75       |
| No. removed from register .. ..    | .. | .. |  | 91             | 65       |
| No. remaining on register 31/12/68 | .. | .. |  | 81             | 49       |

### REASONS FOR ADMISSION TO NURSERIES DURING 1968

| Categories                      | No.<br>on register<br>1/1/68 | No.<br>admitted<br>during 1968 | No.<br>on register<br>31/12/68 |
|---------------------------------|------------------------------|--------------------------------|--------------------------------|
| Illness of Parents .. ..        | 5                            | 11                             | 5                              |
| Debilitated Children .. ..      | 1                            | 2                              | —                              |
| Confinement .. ..               | —                            | 7                              | —                              |
| Illegitimacy .. ..              | 34                           | 38                             | 28                             |
| Children of Widows/Widowers     | 9                            | 5                              | 5                              |
| Parents separated .. ..         | 28                           | 33                             | 17                             |
| Father in H.M. Forces ..        | 2                            | 3                              | 2                              |
| Adverse housing conditions ..   | 1                            | 5                              | 3                              |
| Poor financial circumstances    | 21                           | 37                             | 41                             |
| Others, Teachers and Businesses | 24                           | 30                             | 34                             |

### AVERAGE No. OF CHILDREN ATTENDING

| 1968               | Quarterly | Weekly | Daily |
|--------------------|-----------|--------|-------|
| January — March    | 2,669     | 202    | 40    |
| April — June       | 2,687     | 206    | 41    |
| July — September   | 2,440     | 184    | 36    |
| October — December | 3,032     | 233    | 46    |

### Child Minders

Women who undertake to care for children in their own homes for reward are known as Child Minders. This method can be highly satisfactory. Both the premises and the persons in the premises have to satisfy certain standards laid down. The method has had limited use only in Halifax, but during the last quarter of 1968 considerable publicity was given to the new regulations and a special report will be made in the 1969 Report.

As from 1st February, 1969, it will be an offence for an un-registered person for reward in her home to look after one or more children to whom she is not related, for two hours in the aggregate in any day or for any longer period not exceeding six days.

The Local Health Authority may:—

- (a) approve registration;
- (b) lay down certain requirements in relation to safety precautions and other matters before registering premises or persons;
- (c) refuse to register premises because of their condition, situation, construction or size or because of the condition of the equipment in her premises.

Penalties for failure to register and breach of requirements of the local health authority are:—

- (a) First offence – a fine not exceeding £50;
- (b) Subsequent offence – a term of imprisonment of up to 3 months or a fine of not exceeding £100, or both.

## MORAL WELFARE

### THE UNMARRIED MOTHER—ST. MARGARET'S HOUSE

During 1968 there were 34 admissions and 31 discharges. Three girls discharged themselves. Of the 34 girls admitted, 9 were 13 to 17 years old; 20 were 18 to 21 years old; and 5 were 21 to 25 years old.

Out of a total of 31 babies, 14 were placed for adoption, 14 went home with their mothers, 2 to foster parents and 1 died.

Total beds: 12. Labour beds: 0. Cots: 6.

### Social Work

During the year 115 people were referred to the Halifax Moral Welfare offices at 11 Ward's End, Halifax, of whom 92 were single girls, 18 were married women, and 5 were referred because of family difficulties. Of these 72 were from Halifax County Borough and 43 from the West Riding part of the Deanery. 12 mothers were admitted to St. Margaret's House, Halifax, and 1 to the Roman Catholic Home in Leeds.

On the 31st December, 1968, the position was as follows:—

#### SINGLE GIRLS (92)

22 were expectant mothers.

2 had miscarriages.

1 referred to another area.

52 babies were with their mothers in the parental home, with relatives or friends, or the mothers having their own accommodation.

13 babies placed with adopters.

1 baby taken by relatives.

1 baby – decision not yet made.

## MARRIED WOMEN (18)

- 3 expectant mothers.
- 2 left the area.
- 5 babies placed with adopters.
- 8 babies with their mothers.

We are very grateful for the help of the two Day Nurseries which make it possible for some of the mothers to go out to work, and to know that their child is receiving proper care and attention.

## Midwifery

The volume of work in this section shows a decrease; likewise staffing has considerably reduced, which does not lighten the physical strain on the remaining midwives. The falling birth rate appears to be the obvious result of the success of family planning. The success of family planning may be also gauged by their constant demand for expansion within our accommodation. In the near future, napkin tests for Phenylketonuria is to be discontinued and the more accurate test by "Guthrie" method substituted. Midwives are to be trained in this method which requires a heel prick to obtain the blood specimen.

Combined training with the Halifax General Hospital has proved successful and 18 pupils have obtained their Part II Certificate.

## Maternity Figures

| <i>Year</i> |    |    | <i>Domiciliary<br/>Deliveries</i> | <i>Hospital Early<br/>Discharges</i> |
|-------------|----|----|-----------------------------------|--------------------------------------|
| 1960        | .. | .. | 660                               | 146                                  |
| 1961        | .. | .. | 571                               | 65                                   |
| 1962        | .. | .. | 608                               | 130                                  |
| 1963        | .. | .. | 598                               | 174                                  |
| 1964        | .. | .. | 491                               | 213                                  |
| 1965        | .. | .. | 505                               | 287                                  |
| 1966        | .. | .. | 459                               | 209                                  |
| 1967        | .. | .. | 430                               | 234                                  |
| 1968        | .. | .. | 351                               | 217                                  |

Each year shows a decline in domiciliary deliveries, an increase in births in hospitals and discharges therefrom before the completion of the puerperium. At first restraint in Halifax was imposed on 48-hour discharge but shortage of hospital beds causes this not wholly satisfactory practice to be in the ascendency. Legislation is before Parliament which will in addition to training noted above will allow authorities to combine hospital and domiciliary services.

## CONFINEMENT AT HOME AND IN HOSPITAL

|                                     | 1963 | 1964 | 1965 | 1966 | 1967 | 1968 |
|-------------------------------------|------|------|------|------|------|------|
| No. of Domiciliary Confinements ..  | 598  | 491  | 505  | 459  | 430  | 351  |
| Percentage of Total Confinements .. | 28%  | 21%  | 30%  | 24%  | 23%  | 21%  |

## MIDWIFERY STATISTICS

|  | Number of Midwives practising in the area of the Authority at 31st December, 1968 |                         |                         |
|--|---|-------------------------|-------------------------|
|  | Domiciliary Midwives  | Midwives Institutions   | Total                   |
| Midwives employed by Voluntary Organisations   |   |                         |                         |
| (i) Under arrangements with the Local Health Authority in pursuance of Section 23 of National Health Service Act | 7   | —                       | 7                       |
| (ii) Otherwise (including Hospitals not transferred to the Minister under the National Health Service Act)       | —   | —                       | —                       |
| Midwives employed Hospital Management Committee, etc.  | —   | 31 (9 Part-time)        | 31 (9 Part-time)        |
| Midwives in Private Practice   | —   | —                       | —                       |
| <b>TOTAL</b>   | <b>7</b>  | <b>31 (9 Part-time)</b> | <b>38 (9 Part-time)</b> |

## MIDWIVES DELIVERIES AT HOME AND HOSPITAL

|  | Number of Deliveries in the Area of the Local Supervising Authority attended by Midwives during 1968 |                       |             |
|--|--|-----------------------|-------------|
|  | Domiciliary Cases  | Cases in Institutions | Total       |
|  | As Midwives  | As Midwives           | As Midwives |
| Midwives employed by the Authority   | —  | —                     | —           |
| Midwives employed by Voluntary Organisations   |  |                       |             |
| (a) Under arrangements with the Local Health Authority in pursuance of Section 23 of National Health Service Act | 351  | —                     | 351         |
| (b) Otherwise (including Hospitals not transferred to the Minister under the National Health Service Act)        | —  | —                     | —           |
| Midwives employed by Hospital Management Committees, etc.  | —  | 1245                  | 1245        |
| Midwives in Private Practice   | —  | —                     | —           |
| <b>TOTAL</b>   | <b>351</b>   | <b>1245</b>           | <b>1596</b> |

# SUMMARY OF WORK OF DOMICILIARY MIDWIVES DURING 1968

| <i>Administration of Analgesia</i>     | Midwife only<br>present at time<br>of delivery<br>of child | Doctor and<br>Midwife present<br>at time of<br>delivery of child | All |
|--|--|--|-----|
| Pethidine only .. ..                   | 25   | 7  | 32  |
| Pethidine and Trilene                  | 163  | 33   | 196 |
| Trilene only .. ..                     | 78   | 14   | 92  |
| General analgesia ..                   | 4  | 27   | 31  |
| Total number of<br>deliveries attended | 270  | 81   | 351 |

## NOTIFICATIONS RECEIVED FROM MIDWIVES DURING 1968

|   | Domi-<br>ciliary<br>Midwives | Maternity<br>Hospital<br>and<br>Extension | Inde-<br>pendent<br>Practice | Total |
|---|------------------------------|---|------------------------------|-------|
| (a) Intention to practice ..                        | 7                            | 31  | —                            | 38    |
| (b) Intention to cease practice                     | —                            | —   | —                            | —     |
| (c) Change of address ..                            | —                            | —   | —                            | —     |
| (d) Change of name .. ..                            | —                            | —   | —                            | —     |
| (e) Sending for medical help                        | 225                          | —   | —                            | 225   |
| (f) Stillbirths occurring in<br>practice .. ..      | —                            | 27  | —                            | 27    |
| (g) Deaths occurring in<br>practice: (i) Mothers .. | —                            | 1   | —                            | 1     |
| (ii) Infants ..                                     | —                            | —   | —                            | —     |
| (h) Laying out the dead ..                          | —                            | —   | —                            | —     |
| (i) Liability to be a source of<br>infection .. ..  | —                            | —   | —                            | —     |

The number of cases in which medical aid was summoned during the year under Section 14(1) of the Midwives Act 1956, by a midwife:

For Domiciliary Cases—

|  |     |
|--|-----|
| (i) Where the medical practitioner has arranged to provide the patient with maternity medical services under the National Health Service .. .. . | 225 |
| (ii) Others .. .. .  | —   |

### C.M.B. Rules Notifications

Notifications received in accordance with Central Midwives' Board Rules:

|  |   |
|--|---|
| Notification of Stillbirth .. .. .             | 0 |
| Notification of having laid out a dead body .. | 0 |
| Liable to be a source of infection .. .. .     | 6 |

|   |    |
|---|----|
| Medical Aid Forms received during the year on behalf of child | 54 |
| Of these—Oedema .. .. .                                       | 1  |
| Foetal Distress .. .. .                                       | 10 |
| Discharging eye(s) .. .. .                                    | 11 |
| Asphyxia .. .. .  | 1  |
| Pyrexia .. .. .   | 4  |
| Gastro Enteritis .. .. .                                      | 1  |
| Abnormalities .. .. .   | 1  |
| Thrush .. .. .  | 13 |
| Prematurity .. .. .   | 2  |
| Others .. .. .  | 10 |

## HEALTH VISITING

The following table shows the work of health visitors for the year under review:

|      | No. of Health Visitors employed at end of year |                              | No. of Visits paid by Health Visitors during the year |              |                              |              |                                  |      |             |
|------|--|------------------------------|---|--------------|------------------------------|--------------|----------------------------------|------|-------------|
|      |  |                              | Expectant Mothers                                     |              | Children under 1 year of age |              | Children between the ages of 1-5 |      |             |
|      | Whole Time on Health Visiting                  | Part Time on Health Visiting | First Visits  | Total Visits | First Visits                 | Total Visits | Total Visits                     | T.B. | Other Cases |
| 1968 | 6  | —                            | 375   | 438          | 1444                         | 3490         | 5777                             | 46   | 2100        |

The highlight of the year was the opening in October of the Laura Mitchell Clinic by H.R.H. The Duchess of Kent. The building is well used and the Health Visitors are comfortably housed therein. It gives an opportunity of meeting other Home Visitors and Social Workers. It would appear that the opening coincided with the Health Committee's decision to designate all clinics as "Health" Clinics, but evidently this was decided at the beginning of the year.

The Health Visitor is a highly trained individual; in fact her qualifications before she starts training are so high that we cannot secure them in embryo. The Health Visitors cope with their job in spite of depleted numbers. Their visiting in the homes is maintained as much as possible, and this is of primary importance. It is of a specialised nature, and its value lies more in regard to the "At Risk Register" up to the age of two years, and the follow-up and transference to the Handicapped Register which is also used by our colleagues in the School Health Service.

Numerous play groups have been formed and are filling a much needed want. All are visited by the Health Visitor of the District. The Health Visitor ensures that the premises maintain the required standard, but more important she receives information about the development or disturbances of any children within the group.

Child minding is an additional means of assisting the care of pre-school children. New legislation may increase this service, for it is mainly carried on within the province of the unofficial minding service, and it is not before time that this is controlled.

### **Home Nursing**

This has been a year of many changes which will produce events the trend of which will be more clearly seen in the coming years. The official work is governed by a Joint Committee of Associates and Council.

In June, the Queen's Institute of District Nursing ceased as the central body for District Nursing, and we were 'adopted' by the Ministry of Health. The qualifying examination is now for the National District Nurses' Certificate, and we have successfully trained three students for this. The change-over has been imperceptible and without pain, and in due course will be followed by complete integration into the Health Department.

This year has been relatively free of special conferences, although there have been meetings in London to consider more effective representation on the Whitley Council for District Nurses. Miss Savage attended these as one of the Northern representatives.

Staff changes have been numerous, due to emigration, transfers to Nursing Services of the Forces, and marriage. The sickness rate amongst staff has been fairly high, but everyone is now happily recovered.

On October the 24th, the Diabetic Nurse, Mrs. Scott, retired; the occasion was marked by a pleasant coffee evening at her residence, where on behalf of her colleagues she was presented with a fountain pen.

Miss Brooksbank commenced duty as the Diabetic Nurse on the 29th of December; during this period diabetics were visited by District Nurses as necessary. This explains the absence of the Diabetic Report.

In August our colleagues, the Health Visitors, left Kirby Leas for their new abode, the Laura Mitchell Clinic.

Mrs. Glasby successfully passed her Teacher Diploma examination in February, but has since left our service for duty in Huddersfield as a tutor.

Miss Hodgson attended a refresher course in April, 1968.

The combined training of pupils for the Part II examination with the Halifax General Hospital has proved successful, and 18 obtained the Certificate.

We were visited by the Health Committee on their 'View Day', the 2nd of December, 1968.

All were saddened by the news of Miss Margaret Angus's death in December. Miss Angus retired from our service in October, 1966, after 17 years as a midwife.

I would like to express my appreciation of the help and guidance given to us by the Committee, and a genuine "thank you" for a year of work well done to all members of staff.

Regarding our professional work, this has been a relatively quiet year of steady work and progress. Geriatric work accounts for 10 per cent increase in visiting, made necessary by the long term services needed by these patients. To help relieve the situation an extension of the Home Help Service would help greatly, e.g. in preparing fires, cooking scratch meals, etc. These are not part of a district nurse's duties, but have been done to a greater or lesser degree by nurses as and when necessary, more particularly perhaps in cases where the Home Help attends for perhaps one or two hours per week, a period which may be of no use to anyone who really needs help. The difficulties of the aged are with us and are increasing daily. The problems would seem insoluble by their own complexities, but the secret is the inability or non-existent desire of families to shoulder any responsibility for their aged relatives.

### NUMBER OF CASES AND VISITS

| <i>Type of Case</i>     | <i>Number of Cases</i> | <i>Number of Visits</i> |
|-------------------------|------------------------|-------------------------|
| Acute Medical .. .. .   | 1,510                  | 40,381                  |
| Chronic Medical .. .. . | —                      | —                       |
| Surgical .. .. .        | 644                    | 11,391                  |
| Tuberculosis .. .. .    | 11                     | 681                     |
| Abortion .. .. .        | —                      | —                       |
| Other .. .. .           | 68                     | 1,141                   |
| Total                   | 2,233                  | 53,594                  |

### NURSING HOMES

The following table shows the position of nursing homes in the town.

|  | Number of Homes | Number of beds provided for |        |        |
|--|-----------------|-----------------------------|--------|--------|
|  |                 | Maternity                   | Others | Totals |
| Nursing Homes first registered during 1967 ..            | —               | —                           | —      | —      |
| Nursing Homes on the register at the end of 1968 .. .. . | 2               | —                           | 32     | 32     |

### VACCINATION AND IMMUNISATION

The diseases against which persons can now easily and commonly receive immunisation are diphtheria, tetanus, whooping cough, poliomyelitis, smallpox, measles and tuberculosis. With the exception of measles the incidence of these conditions in the com-

munity is now very low indeed. It can only be regretted that measles immunisations have not yet been adopted sufficiently widely enough to virtually abolish this disease also.

To maintain this disease-free state the community must undertake the obligations of maintaining a high degree of immunity in the town by ensuring that all susceptible persons receive the necessary vaccinations.

Epidemiological studies suggest that it is unlikely for an epidemic to occur if immunisation rate in any community is around 90%. As will be seen the figures for Halifax are far below this and to some extent Halifax is being protected by the fact that epidemics are not arising in the country due to higher levels of immunisation elsewhere.

It must be said for the Halifax figures that these apply to children under five, and they will be improved somewhat by the further vaccination of children in their first year at school.

One case of poliomyelitis in 1968 is a warning that the possibility of infection is ever with us, and indeed immunisation at times may be rapidly required when outbreaks occur in foreign holiday resorts.

It is difficult to conceive the reasons for people to ignore smallpox vaccination when there is now such a considerable instance of travelling between Britain and endemic centres of smallpox in eastern countries, although the number of cases of smallpox remains low in Britain.

B.C.G. vaccination continues to be given to school children who have no immunity to tuberculosis, and is unduly contributive to the low levels of tuberculosis infection experienced at the present.

For the future it is likely that measles can be virtually eliminated from the community to be followed along by German measles and mumps. It may be that the first steps are now being taken also to develop vaccinations against hepatitis. Effective vaccinations against many symptoms of influenza are now available. The well-known property of the influenza virus to produce new types taken seem to indicate that the constant monitoring of influenza epidemics, and attempts to produce new vaccines will continue until effective anti-viral drugs are developed.

## DIPHTHERIA

| No. of Children who completed a full course of Primary Immunisation in the period ending 31st December, 1968 |      |       | Total No. of Children who were given a secondary or Reinforcing Injection |
|--|------|-------|---|
| Age at date of Final Injection   |      | Total |   |
| Under 5  | 5-15 |       |   |
| 476  | 318  | 794   | 1023  |

Concerning diphtheria immunisation of school children, details of this service are supplied in a separate report on the School Medical Services.

#### POLIOMYELITIS VACCINATION (see table on p. 100).

The total number who have been vaccinated against poliomyelitis is disappointing, particularly as the figures are appreciably lower than in previous years. The trend is surprising as poliomyelitis vaccination is such a simple procedure, being given by mouth. Women who are pregnant are also entitled to this particular measure of protection and there is neither discomfort nor any risk of reaction.

Special evening clinics are held on the first Thursday of each month and the response is so low that an alternative time will be instituted in 1968.

At the end of the year the following people had received at least two doses:—

|                            |    |    |    |        |
|----------------------------|----|----|----|--------|
| By Local Authority Doctors | .. | .. | .. | 22,940 |
| By General Practitioners   | .. | .. | .. | 14,242 |
| Third injection            | .. | .. | .. | 36,928 |
| Fourth injections          | .. | .. | .. | 17,297 |

These figures are quite valueless and the object which must be satisfied is the 100 per cent protection of infants before the age of one year.

#### SMALLPOX VACCINATION

The public are kept constantly informed of the Ministry of Health's decision advising Local Health Authorities to change the age for vaccination from three months to between one and two years. It is found that the latter age group is associated with the minimum number of post vaccination complications. No doubt this change may be somewhat responsible for the unsatisfactory protection which is being accepted by the public for their children.

No. of persons Vaccinated (or re-vaccinated) during period:—

| Age at 31st Dec.<br>1968 | Under 1 | 1-4 | 5-15 | 16 or<br>over | Total<br>1967 | Gross<br>Total |
|--------------------------|---------|-----|------|---------------|---------------|----------------|
| No. Vaccinated           | 20      | 569 | 59   | 68            | 716           | 18,019         |
| No. Re-vaccinated        | —       | 20  | 39   | 213           | 272           | 12,440         |

## B.C.G. VACCINATION

The result of the B.C.G. Vaccination of school children of the 13 years age group during September-October 1968 was:

|                                     |    |    |       |
|-------------------------------------|----|----|-------|
| Number of children in age group..   | .. | .. | 1,195 |
| Number of acceptances for B.C.G.    | .. | .. | 1,006 |
| Percentage of age group accepting   | .. | .. | 84.0  |
| Number skin tested                  | .. | .. | 988   |
| Percentage of acceptances tested    | .. | .. | 98.21 |
| Attendances for inspection..        | .. | .. | 943   |
| Number absent                       | .. | .. | 45    |
| Of these—Positive                   | .. | .. | 136   |
| Negative                            | .. | .. | 807   |
| Of those inspected—Vaccinated       | .. | .. | 787   |
| Referred X-ray                      | .. | .. | 136   |
| Number absent                       | .. | .. | 20    |
| Attended X-ray                      | .. | .. | 105   |
| Number absent                       | .. | .. | 31    |
| Result of X-ray—                    |    |    |       |
| No radiographic evidence of disease | .. |    | 105   |

## VACCINATION AND IMMUNISATION OF CHILDREN

The following table shows the percentages vaccinated for Halifax together with the equivalent national figures:

|                    | <i>Children born in 1968</i> |                   |                      | Smallpox<br>(Children<br>under 2)<br>(4) |
|--------------------|------------------------------|-------------------|----------------------|--|
|                    | Whooping<br>Cough<br>(1)     | Diphtheria<br>(2) | Poliomyelitis<br>(3) |  |
| England and Wales  | 76                           | 78                | 74                   | 38                                       |
| Local Authority .. | 48                           | 49                | 52                   | 19                                       |

The figures in columns (1)–(3) are calculated to show the percentage of children born in 1967 who have been vaccinated at any time.

Column (4) includes only children who were vaccinated during 1968 and were under 2 years old at the time, and is calculated as a percentage of children born during 1968. This is considered to give a reasonable estimate of the proportion of young children being vaccinated against smallpox.

**PERSONS IMMUNISED AGAINST DIPHTHERIA, WHOOPING COUGH AND TETANUS 1968**  
(b) COMPLETE PRIMARY COURSE

| Vaccination Centre      | ANTIGEN USED |   |                                      |                                 |                |         |                   | Number Immunized                    |   |                                  |
|-------------------------|--------------|---|--------------------------------------|---------------------------------|----------------|---------|-------------------|-------------------------------------|---|----------------------------------|
|                         | Diphtheria   | Diphtheria, Whooping Cough and Tetanus Combined | Diphtheria & Whooping Cough Combined | Diphtheria and Tetanus Combined | Whooping Cough | Tetanus | Number of Persons | Diphtheria Singly or in Combination | Whooping Cough Singly or in Combination | Tetanus Singly or in Combination |
| Child Welfare Centres   | —            | 380   | —                                    | 7                               | —              | 11      | 398               | 387                                 | 380                                     | 398                              |
| Schools & School Clinic | 1            | 3   | —                                    | 177                             | —              | —       | 181               | 181                                 | 3                                       | 180                              |
| General Practitioners   | 35           | 213   | —                                    | 63                              | —              | 330     | 641               | 311                                 | 213                                     | 595                              |
| Total                   | 36           | 596   | —                                    | 247                             | —              | 341     | 1,220             | 879                                 | 596                                     | 1,173                            |

(a) REINFORCING COURSE

|                         |    |     |   |     |   |     |       |       |     |       |
|-------------------------|----|-----|---|-----|---|-----|-------|-------|-----|-------|
| Child Welfare Centres   | 11 | 33  | — | 44  | — | 9   | 97    | 106   | 33  | 149   |
| Schools & School Clinic | 34 | —   | — | 778 | — | —   | 812   | 812   | —   | 778   |
| General Practitioners   | 8  | 76  | — | 53  | — | 97  | 234   | 137   | 76  | 226   |
| Total                   | 53 | 109 | — | 875 | — | 106 | 1,143 | 1,055 | 109 | 1,153 |

COMBINED PRIMARY/REINFORCING COURSE

|                         |    |     |   |       |   |    |       |       |     |       |
|-------------------------|----|-----|---|-------|---|----|-------|-------|-----|-------|
| Child Welfare Centres   | 11 | 413 | — | 51    | — | 20 | 495   | 493   | 413 | 547   |
| Schools & School Clinic | 35 | 3   | — | 955   | — | —  | 993   | 993   | 3   | 958   |
| Total                   | 46 | 416 | — | 1,006 | — | 20 | 1,488 | 1,486 | 416 | 1,505 |

(a) Reinforcing course. (b) Complete primary course.

| YEAR<br>OF<br>BIRTH | ANTIGEN USED |   |   |  |                   |         | NUMBERS IMMUNISED                           |  |  |  |
|---------------------|--------------|---|---|--|-------------------|---------|---|--|--|--|
|                     | Diphtheria   | Diphtheria,<br>Whooping<br>Cough and<br>Tetanus<br>Combined | Diphtheria and<br>Whooping<br>Cough<br>Combined | Diphtheria<br>and<br>Tetanus<br>Combined | Whooping<br>Cough | Tetanus | Diphtheria<br>(Singly or in<br>Combination) | Whooping<br>Cough<br>(Singly or in<br>Combination) | Tetanus<br>(Singly or in<br>Combination) |  |
| 1968                | 1            | 58  | —   | 3  | —                 | 3       | 62  | 58   | 64                                       |  |
| 1967                | —            | 423   | —   | 3  | —                 | 1       | 426   | 423  | 427                                      |  |
| 1966                | —            | 44  | —   | 3  | —                 | 3       | 47  | 44   | 50                                       |  |
| 1965                | —            | 23  | —   | 1  | —                 | 4       | 24  | 23   | 28                                       |  |
| 1964                | 1            | 17  | —   | 6  | —                 | 5       | 24  | 17   | 28                                       |  |
| Totals 1964-68      | 2            | 565   | —   | 16                                       | —                 | 16      | 583   | 565  | 597                                      |  |
| 1954-63             | 30           | 30  | —   | 223                                      | —                 | 62      | 283   | 30   | 315                                      |  |
| Totals 1954-68      | 32           | 595   | —   | 239                                      | —                 | 78      | 866   | 595  | 912                                      |  |

#### REINFORCING COURSE

|                |    |     |   |     |   |    |       |     |       |
|----------------|----|-----|---|-----|---|----|-------|-----|-------|
| 1968           | —  | —   | — | 2   | — | 1  | 2     | —   | 3     |
| 1967           | 1  | 18  | — | —   | — | —  | 19    | 18  | 18    |
| 1966           | —  | 6   | — | —   | — | 1  | 6     | 6   | 7     |
| 1965           | —  | 9   | — | 4   | — | 4  | 13    | 9   | 17    |
| 1964           | 4  | 13  | — | 11  | — | 2  | 28    | 13  | 26    |
| Totals 1962-67 | 21 | 86  | — | 373 | — | 12 | 480   | 86  | 471   |
| 1954-63        | 26 | 15  | — | 497 | — | 19 | 538   | 15  | 531   |
| Totals 1954-68 | 47 | 101 | — | 870 | — | 31 | 1,018 | 101 | 1,002 |

#### COMBINED PRIMARY/REINFORCING COURSE

|                        |    |     |   |       |                             |     |       |     |       |
|------------------------|----|-----|---|-------|-----------------------------|-----|-------|-----|-------|
| Totals 1954-68         | 79 | 696 | — | 1,109 | —                           | 109 | 1,884 | 696 | 1,914 |
| (a) Reinforcing course |    |     |   |       | (b) Complete primary course |     |       |     |       |

**DIPHTHERIA IMMUNISATION—NUMBERS OF HALIFAX PERSONS, IN AGE GROUPS, GIVEN PRIMARY  
COURSE OF INJECTIONS**

| Year<br>of Birth | YEAR OF IMMUNIZATION |      |      |      |      |      |      |      |      |      |      |      |      |      | Total in Age Groups |  |
|------------------|----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|---------------------|--|
|                  | 1954                 | 1955 | 1956 | 1957 | 1958 | 1959 | 1960 | 1961 | 1962 | 1963 | 1964 | 1965 | 1966 | 1967 | 1968                | Total  |
| 1954             | 495                  | 236  | 51   | 20   | 13   | 8    | 15   | 33   | 7    | 5    | 3    | 5    | 3    | —    | 9                   | 903  |
| 1955             | —                    | 398  | 224  | 38   | 33   | 13   | 20   | 51   | 21   | 9    | 7    | 3    | 6    | —    | 9                   | 832  |
| 1956             | —                    | —    | 479  | 197  | 25   | 25   | 39   | 73   | 30   | 11   | 7    | 4    | 2    | 2    | 12                  | 906  |
| 1957             | —                    | —    | —    | 600  | 186  | 34   | 50   | 53   | 15   | 30   | 18   | 6    | 3    | 2    | 10                  | 1007   |
| 1958             | —                    | —    | —    | —    | 424  | 179  | 75   | 58   | 18   | 23   | 57   | 47   | 9    | 3    | 13                  | 896  |
| 1959             | —                    | —    | —    | —    | —    | 704  | 141  | 102  | 13   | 18   | 29   | 75   | 37   | 5    | 8                   | 1132   |
| 1960             | —                    | —    | —    | —    | —    | —    | 856  | 577  | 107  | 17   | 17   | 20   | 152  | 17   | 15                  | 1678   |
| 1961             | —                    | —    | —    | —    | —    | —    | —    | 437  | 347  | 45   | 30   | 14   | 41   | 58   | 33                  | 1005   |
| 1962             | —                    | —    | —    | —    | —    | —    | —    | —    | 348  | 470  | 62   | 25   | 27   | 39   | 104                 | 175  |
| 1963             | —                    | —    | —    | —    | —    | —    | —    | —    | —    | 415  | 485  | 50   | 24   | 7    | 70                  | 1051   |
| 1964             | —                    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 552  | 607  | 57   | 12   | 24                  | 1252   |
| 1965             | —                    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 445  | 558  | 15   | 24                  | 1042   |
| 1966             | —                    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 480  | 464  | 47                  | 991  |
| 1967             | —                    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 493  | 426                 | 919  |
| 1968             | —                    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | —    | 62                  | 62   |
|                  |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |                     | Total under<br>Five years<br>at end of<br>1968<br>11,752 |
|                  |                      |      |      |      |      |      |      |      |      |      |      |      |      |      |                     | Total under<br>Five years<br>at end of<br>1968<br>4,966  |

## SECTION IV

MISCELLANEOUS INFORMATION

AMBULANCE SERVICE

SOCIAL WELFARE

CERVICAL CYTOLOGY

HEALTH EDUCATION

LOAN EQUIPMENT

FIRE GUARDS

INCONTINENCE PADS

CONVALESCENT HOME

CHIROPODY

MEDICAL EXAMINATIONS

ORTHOPAEDIC

CONGENITAL DEFECTS

NATIONAL ASSISTANCE ACT Sec. 47

CREMATIONS

PUBLIC MORTUARY

CALDERDALE WATER BOARD

SEWERAGE

REFUSE COLLECTION AND DISPOSAL

WATER POLLUTION CONTROL

## MISCELLANEOUS INFORMATION

On the 22nd August, 1968, the department received Circular 31/68 which outlined the provisions of the Health Service and Public Health Act, 1968, which would come into operation on the 9th September, 1968. These included the arrangements which the local health authority would make for specialised services at clinics. The Act also replaces and modifies the duties placed on local health authorities in regard to lying in period and allows Health Visitors or Home Nurses to visit women during this time in place of midwives. The act is a liberalising one and allows domiciliary midwives to practise in hospitals. Local health authorities, under Section 11, can provide Health Visitors and Nurses in a similar way to a midwifery service. Local authorities are given power beyond doubt to provide residential accommodation for mental health purposes and those who are handicapped by injury or congenital deformity qualify for assistance by the Home Help Service. Local health authorities may recover charges from persons whose children have been placed with child minders; ophthalmic practitioners, opticians, dentists and pharmacists can practise at a health centre and persons who have been displaced from their homes by developmental schemes for hospitals can be rehoused under arrangements with the Minister of Health by the local authority.

In Part 4, provision is made for the training in hospitals of local authority midwives wishing to take the Midwives' Teaching Diploma.

A number of miscellaneous provisions which are non-medical in their application are also included in the Act.

## AMBULANCE SERVICE

The fleet comprises of one Austin Gypsy and ten L.D. type dual-purpose ambulances.

Two of these vehicles are fitted with an American style trolley, which facilitates the movement of a patient between bed and trolley both at home and at the hospital.

At the present time six of the ambulances are fitted with poles and canvas which is another method of transferring a patient from the ambulance stretcher onto a trolley at the hospital or into bed. It means that instead of lifting the stretcher from the ambulance, the crew simply lift the patient who is on the stretcher sheet with the poles threaded through sleeves at the side and lift the patient on to another trolley, slide out the poles, fit another carrying sheet on to their stretcher, and that completes the operation. This is a very much easier method than the previous one of lifting the patient in the blanket, and more comfortable for the patient. But, as with all things newly introduced, the men take some time before they are fully convinced this is the best method.

Once again the statistics show a trend upwards, and again this can in the main be attributable to the acute bed situation prevailing in the hospital service.

Journeys to other towns – Leeds, Bradford, Wakefield and Sheffield – seem to be on the increase. In the last few months we have had to travel to Leeds at least three times per day twice a week because we have a patient who must be in the Leeds Infirmary before 9 a.m. for treatment in the kidney unit, and she stays there until 6.30 p.m. so the times do not fit in with any other patient going that day and usually there are several. Result is having to make two return journeys three times a week for just the one patient but, if this service was not available, this patient would be in very serious trouble.

We have during the year taken steps to bring our equipment into line with the recommendations of the Working Party on Ambulance Training and Equipment. Each ambulance has a sterile maternity pack, this is for the use of a doctor or midwives and not the ambulance crew, in case of a child being born before arrival of the vehicle at hospital. Up to now we have never had cause to use this type of equipment; we have always sent a midwife to the case on receiving a call from the ambulance driver for assistance, and coming from the hospital she has with her the equipment she will require.

Although each ambulance carries a first-aid box, we are going to give each member of the crew a satchel containing a further supply of first-aid material. This is so that they can carry it with them to the scene of the accident, also each ambulance is equipped with a Brook airway. This is an instrument which enables the ambulance driver to give mouth to mouth resuscitation to a patient without physical contact.

Still keeping in line with the recommendation one member of our driving staff has attended the Training School situated in the West Riding County Council, and he obtained a very good report. We are hoping for another vacancy next year.

The ambulance staff have all attended a twelve-hour revision course on First Aid spread over a six-week period.

The fleet has been maintained by the Transport Department of the Corporation, and I would like to thank the Manager and his staff for the ready assistance which has been afforded to us when required.

The hospital car pool service has also assisted with cases, mainly to convalescent homes and children to Sheffield Children's hospital. Patients travelling by rail will in the future diminish in numbers, because before very long it will be virtually impossible to put a stretcher case on a train because of changes in policy of British Rail. Most of the rolling stock will be of the saloon type coach with a centre gangway. In this vehicle there is no privacy for a patient and the gangway would be blocked if a stretcher was placed across it. Even short trips are affected, i.e. our patients going to the convalescent home in Harrogate. At one time it was a through journey by train and ambulance; now there is a change at Leeds, which

means that an escort should be provided if the patients have luggage or are elderly.

We have been rather unfortunate this year insofar as we have had two members of the driving staff off duty through illness since November 1968 and neither has worked since, having undergone serious operations. We have had to call on other members of the staff to cover the time lost by sickness in order to maintain the efficiency of the service.

The Joint Consultative Committee meets at the ambulance station every six weeks and discussion takes place on various items affecting the service.

I would at this point take the opportunity of expressing my thanks to the Health Committee, the Medical Officer of Health and members of his staff for the help and support afforded me in the running of the ambulance service.

The following summary is a record of the work done by the service fleet over the past ten years.

| Year | No. of Vehicles in service 31st Dec. |    | Total No. of Journeys during the year | Total No. of Patients carried during the year | No. of Accidents, and other Emergency Journeys inc. in Col. 3 | Mileage during the year | Total Mileage for the year |
|------|--------------------------------------|----|---------------------------------------|---|---|-------------------------|----------------------------|
| 1959 | Ambulances                           | 5  | 5,741                                 | 15,789  | 2,066   | 60,904                  | 123,360                    |
|      | Car Amb.                             | 4  | 5,088                                 | 12,931  | 1,675   | 62,456                  |                            |
| 1960 | Ambulances                           | 5  | 6,104                                 | 16,761  | 2,156   | 65,771                  | 128,654                    |
|      | Car Amb.                             | 4  | 5,066                                 | 13,099  | 1,760   | 62,883                  |                            |
| 1961 | Ambulances                           | 7  | 9,398                                 | 25,108  | 2,907   | 105,309                 | 135,439                    |
|      | Car Amb.                             | 3  | 2,430                                 | 6,921   | 275   | 30,130                  |                            |
| 1962 | Ambulances                           | 8  | 9,435                                 | 26,447  | 3,103   | 113,504                 | 145,383                    |
|      | Car Amb.                             | 2  | 2,450                                 | 8,045   | 110   | 31,879                  |                            |
| 1963 | Ambulances                           | 8  | 10,670                                | 31,039  | 2,982   | 130,365                 | 156,236                    |
|      | Car Amb.                             | 2  | 1,896                                 | 7,434   | 42  | 25,871                  |                            |
| 1964 | Ambulances                           | 9  | 11,443                                | 33,864  | 2,999   | 137,427                 | 161,252                    |
|      | Car Amb.                             | 1  | 1,697                                 | 7,162   | 36  | 23,825                  |                            |
| 1965 | Ambulances                           | 9  | 11,910                                | 36,914  | 2,959   | 149,516                 | 166,480                    |
|      | Car Amb.                             | 1  | 971                                   | 4,245   | 3   | 16,964                  |                            |
| 1966 | Ambulances                           | 11 | 12,123                                | 38,061  | 2,964   | 163,912                 | 170,805                    |
|      | Car Amb.                             | 0  | 388                                   | 1,723   | 0   | 6,893                   |                            |
| 1967 | Ambulances 11 (Dual Purpose)         |    | 13,195                                | 40,413  | 3,349   | 175,491                 | 175,491                    |
| 1968 | Ambulances 11 (Dual Purpose)         |    | 13,326                                | 42,097  | 2,849   | 180,068                 | 180,068                    |

# CATEGORIES

| 1968         | Discharges | Admissions | Out Patients | Hospital Transfers | House Transfers | Mental | Obstetrical | Maternity | Home Accidents | Works Illnesses | Works Accidents | Street Illnesses | Street Accidents | Totals |
|--------------|------------|------------|--------------|--------------------|-----------------|--------|-------------|-----------|----------------|-----------------|-----------------|------------------|------------------|--------|
| January ..   | 133        | 391        | 3,069        | 76                 | 3               | 5      | 13          | 60        | 43             | 6               | 15              | 31               | 72               | 3,917  |
| February ..  | 131        | 298        | 2,726        | 109                | 5               | 22     | 18          | 68        | 38             | 7               | 13              | 23               | 53               | 3,511  |
| March ..     | 137        | 291        | 2,732        | 75                 | 8               | 19     | 17          | 75        | 61             | 1               | 11              | 23               | 72               | 3,522  |
| April ..     | 166        | 308        | 2,697        | 99                 | 7               | 27     | 10          | 63        | 52             | 2               | 8               | 16               | 79               | 3,534  |
| May ..       | 143        | 316        | 3,171        | 64                 | 1               | 14     | 15          | 55        | 61             | 2               | 10              | 20               | 75               | 3,947  |
| June ..      | 130        | 270        | 2,772        | 78                 | 3               | 30     | 22          | 55        | 68             | 3               | 3               | 46               | 85               | 3,565  |
| July ..      | 133        | 300        | 2,641        | 62                 | 9               | 14     | 19          | 64        | 58             | 3               | 8               | 34               | 82               | 3,427  |
| August ..    | 104        | 273        | 2,764        | 85                 | 5               | 5      | 13          | 63        | 87             | 7               | 11              | 26               | 75               | 3,518  |
| September .. | 125        | 300        | 2,550        | 77                 | 4               | 8      | 16          | 62        | 63             | 4               | 9               | 15               | 60               | 3,293  |
| October ..   | 127        | 303        | 2,648        | 59                 | 13              | 9      | 20          | 74        | 63             | 4               | 18              | 28               | 73               | 3,439  |
| November ..  | 153        | 324        | 2,507        | 70                 | 10              | 9      | 27          | 73        | 60             | 5               | 14              | 16               | 63               | 3,331  |
| December ..  | 126        | 384        | 2,217        | 81                 | 12              | 3      | 12          | 75        | 66             | 6               | 5               | 32               | 74               | 3,093  |
| Totals ..    | 1,608      | 3,758      | 32,494       | 935                | 80              | 165    | 202         | 787       | 720            | 50              | 125             | 310              | 863              | 42,097 |

# WEST RIDING COUNTY COUNCIL MILEAGE

|      |    |    |    |                           |
|------|----|----|----|---------------------------|
|      |    |    |    | Ambulances (Dual Purpose) |
| 1967 | .. | .. | .. | 40,931                    |
|      |    |    |    | Ambulances                |
| 1968 | .. | .. | .. | 46,435                    |

## TRANSPORTED BY RAIL

|                    |                         |
|--------------------|-------------------------|
| No. of Patients 29 | Estimated Mileage 1,950 |
|--------------------|-------------------------|

The establishment at the end of the year was:—

- Ambulance Officer.
- 4 Shift Leaders.
- 2 Telephonists.
- 21 Driver-Attendants.

Vehicles in service, 31st December, 1968:—

- 8 Austin Dual-Purpose Ambulances.
- 1 Austin Gypsy
- 2 Morris Dual-Purpose Ambulances.

| 1968          |                 |                  |                | <i>Patients</i> | <i>Total</i> |
|---------------|-----------------|------------------|----------------|-----------------|--------------|
| <i>Date</i>   | <i>Journeys</i> | <i>Recumbent</i> | <i>Sitting</i> | <i>Carried</i>  | <i>Miles</i> |
| January ..    | 12,38           | 647              | 3,270          | 3,917           | 16,112       |
| February ..   | 1,004           | 555              | 2,956          | 3,511           | 14,582       |
| March ..      | 1,077           | 568              | 2,954          | 3,522           | 14,364       |
| April ..      | 1,136           | 528              | 3,006          | 3,534           | 15,131       |
| May ..        | 1,181           | 554              | 3,393          | 3,947           | 16,619       |
| June ..       | 1,125           | 519              | 3,046          | 3,565           | 14,633       |
| July ..       | 1,123           | 584              | 2,843          | 3,427           | 15,637       |
| August ..     | 1,136           | 587              | 2,931          | 3,518           | 15,426       |
| September ..  | 1,046           | 553              | 2,740          | 3,293           | 14,483       |
| October ..    | 1,139           | 642              | 2,797          | 3,439           | 14,581       |
| November ..   | 1,075           | 668              | 2,663          | 3,331           | 14,678       |
| December ..   | 1,046           | 649              | 2,444          | 3,093           | 13,822       |
| <i>Totals</i> | 13,326          | 7,054            | 350,043        | 42,097          | 180,068      |

The above totals include non-Borough patients and mileage.

## SOCIAL WELFARE

I am indebted to Mr. F. W. Busfield, F.Inst.Soc.Wel., Chief Welfare Officer, for the following details concerning Social Welfare.

### FOLLOW-UP OF REGISTERED BLIND AND PARTIALLY SIGHTED PERSONS

| Number of Cases registered of which Section F of B.D.8 recommends                | Causes of Disability |          |                         |        |
|--|----------------------|----------|-------------------------|--------|
|  | Cataract             | Glaucoma | Retrolental Fibroplasia | Others |
| A. No Treatment  | 2                    | 1        | —                       | 7      |
| B. Treatment (Medical Surgical or Optical)                                       | 5                    | 2        | —                       | 8      |
| C. Ophthalmic Medical Supervision  | 4                    | 8        | —                       | 15     |
| Number of Cases at (b) above, which on follow-up action have received treatment. | 4                    | 2        | —                       | 8      |
| Ophthalmic Medical Supervision cases which have received treatment.              | 3                    | 8        | —                       | 13     |

### Epilepsy

At the 31st December, 1968, 28 persons suffering from epilepsy were known to the Welfare Services Department. Two of these were also registered as blind persons and two as partially-sighted; four persons had the dual handicap of suffering from cerebral palsy. There were six persons under the care of the local authority in residential accommodation provided under Part III of the National Assistance Act, 1948.

### Cerebral Palsy

Thirty-nine persons with cerebral palsy were registered as handicapped persons on the 31st December, 1968. Of these three were in residential accommodation at White Windows Cheshire Homes, Sowerby Bridge, and four children were attending special schools. Seventeen persons in the young adult age group were attending daily the work centre of the Halifax Spastics Society, transport in a special bus being made available by the Welfare Services Committee. These persons are fully engaged on industrial work in the work centre. Social activities are arranged by the local society including swimming and there is a link up between the members attending the centre and various youth clubs in the town.

The Spastics Society Hostel at Linden Road is registered for 15 handicapped persons of the younger adult age group and these also attend the local society's work centre. They come from all parts of the North of England. Local contacts for social activities are well established and the home is functioning satisfactorily.

## CERVICAL CYTOLOGY

During the second complete year for Cervical Cytology a total of 44 Clinics was held, and 769 women examined. During the year the number of applicants fluctuated, but began to increase towards the end of the year.

The following table gives a breakdown of the women examined, according to age and social class:

| Attendances       | Single | Social Class Classification |      |                 |      |          |      |          |      |          |      |          |      | Total    |      |          |      |
|-------------------|--------|-----------------------------|------|-----------------|------|----------|------|----------|------|----------|------|----------|------|----------|------|----------|------|
|                   |        | Widowed or divorced         |      | Husband Retired |      | 1        |      | 2        |      | 3        |      | 4        |      |          |      | 5        |      |
|                   |        | 1st Rep.                    | Rep. | 1st Rep.        | Rep. | 1st Rep. | Rep. | 1st Rep. | Rep. | 1st Rep. | Rep. | 1st Rep. | Rep. | 1st Rep. | Rep. | 1st Rep. | Rep. |
| Ages              |        |                             |      |                 |      |          |      |          |      |          |      |          |      |          |      |          |      |
| Under 35 years .. | 9      |                             |      | 5               |      | 6        |      | 102      | 1    | 101      | 12   | 50       | 2    | 10       |      | 283      | 15   |
| % of age group .. | 3.2%   |                             |      | 1.8%            |      | 2.1%     |      | 36.0%    |      | 35.7%    |      | 17.6%    |      | 3.6%     |      | 100%     |      |
| 35 years and over | 12     |                             |      |                 |      |          |      |          |      |          |      |          |      |          |      |          |      |
| % of age group .. | 2.4%   |                             |      |                 |      |          |      |          |      |          |      |          |      |          |      |          |      |
| All ages ..       | 21     |                             |      |                 |      |          |      |          |      |          |      |          |      |          |      | 769      | 28   |
| % of total ..     | 2.7%   |                             |      |                 |      |          |      |          |      |          |      |          |      |          |      | 100%     |      |

\* Denotes 1 Positive case. (Total of 9 Positive cases found in the 769 women examined; an average of 1 per 100).

## HEALTH EDUCATION

Some 60 lectures were given to various organisations in the town by the First School Medical Officer and the following members of the Health Department staff:—

|  |    |
|--|----|
| Chief Public Health Inspector .. ..        | 5  |
| Senior Nursing Officer and Health Visitors | 10 |
| Senior Housing Inspector .. ..             | 2  |
| Ambulance Officer. .. ..                   | 6  |
| Home Help Organiser .. ..                  | 4  |
| Medical Officer of Health .. ..            | 15 |
| Deputy Medical Officer of Health ..        | 15 |
| First School Medical Officer .. ..         | 3  |

## LOAN EQUIPMENT

Under Section 28 of the National Health Service various items of equipment were issued to 268 patients during 1968, as compared with 357 patients in 1967. These items included rubber sheets, bed pans, bed rests, commodes, air rings, wheelchairs, enuresis alarms, special equipment for paraplegics, nursing aids and other medical aids for disabled and handicapped persons.

## CHIROPODY

During 1968 the Chiropodists completed 1,146 sessions, compared with 966 in 1967. This was due to having the services of a third part-time Chiropodist working two extra sessions per week. There were 394 new cases referred for treatment during the year compared with 380 the previous year. The number of treatment given consequently increased to 6,431 against 5,861 in 1967. There were 1,258 treatments given in the Clinics and towards the end of the year when the new premises opened it was possible to increase the clinic sessions to three per week in order to deal with an ever-increasing case load. The total number of domiciliary visits made by the Chiropodists was 5,665, compared with 5,092 in 1967.

The following table, showing comparative figures for 1967 in parentheses, indicates the amount of work done:

|  |       |         |
|--|-------|---------|
| Total number of sessions .. ..                 | 1,146 | (966)   |
| New cases referred:                            |       |         |
| Aged .. ..                                     | 378   | (339)   |
| Handicapped .. ..                              | 16    | (41)    |
| Ante-Natal .. ..                               | —     | (—)     |
| Total .. ..                                    | 394   | 380)    |
| Total number of treatments .. ..               | 6,431 | (5,861) |
| Total number of visits .. ..                   | 5,665 | (5,092) |
| Total number of treatments given at Clinics .. | 1,258 | (1,136) |

Mr. Luxton, the Senior Chiropodist, who is due to retire in June 1969, supplies the following information. I take this opportunity of thanking him for his enthusiastic assistance to the Health Department—not only as Chiropodist—but for his voluntary work in relation to the handicapped.:

“I cannot give you details of the other Chiropodist as I never see them. A report is sent to the Medical Officer by each Chiropodist every month. The pressure on the individual Chiropodist is relentless and the system of payment by sessional arrangement is certainly economic from the L.H.A. point of view. I am still maintaining a good service. During the last year I have personally attended to 205 new cases, visited 2,019 cases, attended 1,358 cases at the Clinic; making 3,377 treatments over the year. I am doubtful if the younger newly qualified men and women will accept any other system except for individual payment and when I retire the Health Committee will require to review the system of remuneration. The service is not a cheap one.

The new Clinic is working very well, but people are waiting two months for appointments, I am in favour of monthly treatments and would suggest that more Clinics are held if possible to reduce the waiting period. The results of treatment are gratifying—to see the lame walking and those confined with bad feet able to enjoy the pleasures of life by getting out and about. This to me has been my greatest reward”.

The best wishes of each member of the staff are extended to Mr. Luxton for a very happy retirement and to his wife who has associations with the Health Services extending over many years.

#### FIREGUARDS

During 1968, 18 fireguards which had been issued by the department were in use by elderly people. These are recommended by public health inspectors, health visitors, district nurses, special nurses, general practitioners or any other members of the health team. The issue of fireguards together with all other materials required in community care is controlled by Mr. Leonard Holdsworth, the Senior Social Welfare Officer, assisted by Mr. D. Beer. Reduction of fireguards is explained by the implementation of the Clean Air Act and the use of gas and electric fires.

#### INCONTINENT PAD SERVICE

There has been a decrease in this service, and during 1968 39 patients were issued with various types of incontinent pads from North Parade Clinic. The following table shows their distribution compared to previous years.

|                         | 1964 | 1965  | 1966  | 1967   | 1968  |
|-------------------------|------|-------|-------|--------|-------|
| Bed Pads . . . . .      | 357  | 231   | 252   | 3,806  | 5,542 |
| Personal pilch pads . . | —    | 3,200 | 8,900 | 15,800 | 7,300 |
| Personal garments . .   | —    | 12    | 17    | 42     | 19    |
| Linings . . . . .       | —    | —     | —     | —      | 5     |

## MEDICAL EXAMINATIONS

The undermentioned medical examinations were carried out during the year by the Medical Staff of the Local Authority:

|   |     |
|---|-----|
| Examinations for employment and superannuation ..                                     | 394 |
| Ministry of Education examinations:   |     |
| Form 28 R.Q. .. .. .  | 62  |
| Form 4 R.T.C... .. .  | 136 |
| Examinations on behalf of other local authorities ..                                  | 5   |
| Medical examinations of employees following prolonged absence due to sickness .. .. . | 23  |
|   | 620 |

## ORTHOPAEDICS

| <i>Orthopaedic Clinic</i>        | <i>Under 1 year</i> | <i>1-5 years</i> | <i>Total</i> |
|----------------------------------|---------------------|------------------|--------------|
| No. of new cases .. .. .         | 6                   | 57               | 63           |
| No. of first attendances .. .. . | 6                   | 57               | 63           |
| No. of subsequent attendances .. | 22                  | 574              | 596          |
| Total attendances                | 28                  | 631              | 659          |

### CLASSIFICATION

|                                | <i>No. of Cases</i> | <i>Attendances</i> |
|--------------------------------|---------------------|--------------------|
| Bow Legs .. .. .               | 5                   | 50                 |
| Congenital Deformities .. .. . | 2                   | 42                 |
| Hernia .. .. .                 | —                   | —                  |
| Intoing .. .. .                | 12                  | 117                |
| Knock Knees .. .. .            | 18                  | 201                |
| Metatarsus Varus .. .. .       | —                   | —                  |
| Overlapping Toes .. .. .       | 8                   | 56                 |
| Others .. .. .                 | 18                  | 193                |
|                                | 63                  | 659                |

### DISPOSAL

|   |    |
|---|----|
| No. of cases referred for X-ray examination .. .. .     | 3  |
| No. of cases referred for admission to hospital .. .. . | 1  |
| No. of cases discharged .. .. .                         | 62 |

## CONGENITAL MALFORMATIONS

### INCIDENCE OF CONGENITAL MALFORMATIONS

In accordance with the requirements of the Chief Medical Officer of the Ministry of Health information is supplied to the General Register Office concerning congenital defects apparent at birth.

A summary and analysis of the notifications received during 1968 are given below:

### SUMMARY OF NOTIFICATIONS

|   |    |    |    |
|---|----|----|----|
| Number of notifications received during year                | .. | .. | 39 |
| Number of live births included in (i) above                 | .. | .. | 37 |
| Number of still births included in (i) above                | .. | .. | 2  |
| Total number of malformations notified as apparent at birth |    |    | 46 |
| Number of children with multiple abnormalities              | .. | .. | 5  |

### ANALYSIS OF MALFORMATION NOTIFIED

| Diagnostic Group | Sub-Group | Malformation   | Cases |
|------------------|-----------|--|-------|
| 0                |           | <i>Central Nervous System</i>                              |       |
|                  | .0        | Anencephalus .. .. .                                       | 4     |
|                  | .4        | Hydrocephalus .. .. .                                      | 1     |
|                  | .5        | Microcephalus .. .. .                                      | 0     |
|                  | .6        | Other defects of Brain .. .. .                             | 1     |
|                  | .7        | Other defects of Spinal Cord .. .. .                       | 0     |
|                  | .8        | Spina bifida .. .. .                                       | 2     |
| 1                |           | <i>Eye, Ear</i>  |       |
|                  | .3        | Cataract .. .. .   | 0     |
|                  | .9        | Other defects of ear .. .. .                               | 1     |
| 2                |           | <i>Alimentary System</i>                                   |       |
|                  | .1        | Cleft lip .. .. .  | 4     |
|                  | .2        | Cleft palate .. .. .                                       | 2     |
| 3                |           | <i>Heart and Great Vessels</i>                             |       |
|                  | .0        | Congenital Heart Disease N.O.S. ..                         | 1     |
|                  | .5        | Interatrial septal defect persistent foramen ovale .. .. . | 0     |
| 4                |           | <i>Respiratory System</i>                                  |       |
|                  | .1        | Defects of Diaphragm .. .. .                               | 1     |
| 5                |           | <i>Urogenital System</i>                                   |       |
|                  | .1        | Renal Agenesis .. .. .                                     | 2     |
|                  | .2        | Polycystic Kidney .. .. .                                  | 1     |
|                  | .6        | Hypospadias .. .. .  | 1     |
| 6                |           | <i>Limbs</i>   |       |
|                  | .1        | Reduction Deformity .. .. .                                | 1     |
|                  | .6        | Talipes .. .. .  | 7     |
|                  | .8        | Other defects of hand .. .. .                              | 0     |
| 9                |           | <i>Other malformations</i>                                 |       |
|                  | .1        | Multiple malformation N.O.S. ..                            | 0     |
|                  | .4        | Others .. .. .   | 1     |
|                  | .6        | Mongolism .. .. .  | 1     |

# NATIONAL ASSISTANCE ACT 1948 and NATIONAL ASSISTANCE (AMENDMENT) ACT 1951

## SECTION 47

### *Removal to suitable premises of persons in need of care and attention*

It was necessary on three occasions during the year to operate the National Assistance Acts relating to the removal to hospital of persons in need of care and attention.

This legislation gives powers to remove compulsorily to hospital or other such premises persons who are suffering from grave chronic disease or, being aged, infirm or physically incapacitated are living in insanitary conditions and are unable to devote to themselves, or to receive from other persons, proper care and attention.

The Amendment Act of 1951 empowers the Local Authority to authorise the Medical Officer of Health when urgent removal is considered necessary to take immediate action to obtain a Magistrate's Order to detain the person in suitable premises for a period not exceeding three weeks.

Several cases were brought to notice, but by introducing a district nurse or home help into the home, or by referring the case to our Nursing Officer, it was possible in all but five cases to alleviate or remedy the circumstances and so enable the person to remain at home.

#### CASE I – ADMITTED 9/11/68

The first case gave a history of heart disease of some years' duration and he was over the age of 70. He was recently paralysed down one side and not only was he confused but he was incontinent of faeces and urine. The house was not dirty but his wife was unable to attend to the sanitary difficulties arising.

#### CASE II – ADMITTED

This lady some weeks' previously had a severe burning accident on back, shoulders and chest. She lived entirely on her own and was discovered by neighbours who contacted the Community Care Section of the Department. She was well over the age of 80. In spite of the severe shock associated with her burns or the neglect to which she was exposed, she is doing very well in hospital and will soon be ready for discharge.

#### CASE III – ADMITTED 19/12/1969

This woman had been completely cut off from all social contact when we discovered her living entirely on her own. She was very dirty, had multitudes of lice both on body and head, and there was also infestation of fleas jumping all around and scarcely visible on the blackened bed clothes. She was extremely ill and appeared to have a severe secondary anaemia.

Mr. Beer, the Assistant Nursing Officer gives geriatric care work a great deal of attention. If members of the public discover an old person in any kind of distress, Mr. Beer will be available to give direct help in emergency or in association with the family doctor.

## CREMATIONS

I am indebted to Mr. T. C. Lazenby, F.R.H.S., L.I.P.A., for the following report:

|  |   |                  |  |  |  |        |
|--|---|------------------|--|--|--|--------|
| Total number of cremations since opening to 31st December 1968 .. .. . |   |                  |  |  |  | 19,881 |
| (a) Halifax residents  | } | regret not known |  |  |  |        |
| (b) others   |   |                  |  |  |  |        |
| Total number of cremations during 1968 .. .. .                         |   |                  |  |  |  | 1,793  |
| (a) Halifax area   | } | regret not known |  |  |  |        |
| (b) others .. .. .   |   |                  |  |  |  |        |
| Disposal of remains during 1968  |   |                  |  |  |  |        |
| (a) Scattered at Park Wood .. .. .                                     |   |                  |  |  |  | 1,588  |
| (b) Placed in niches .. .. .   |   |                  |  |  |  | none   |
| (c) Placed in graves .. .. .   |   |                  |  |  |  | None   |
| (d) Taken away by representatives .. .. .                              |   |                  |  |  |  | 197    |
| (e) Awaiting instructions .. .. .                                      |   |                  |  |  |  | 8      |

## PUBLIC MORTUARY

The Hall Street Mortuary ceased to function prior to demolition in July 1968. Since then post mortems have been performed at the Halifax Royal Infirmary (County Borough cases) and at the General Hospital for cases outside the Borough.

150 post mortems have been performed during the year either in the mortuary at Hall Street or at the new facilities at the Royal Halifax Infirmary.

## CALDERDALE WATER BOARD

I am indebted to Mr. Arnold L. Gray, B.Sc., A.M.I.C.E., M.I.W.E., Engineer, for the following report:

The quantity of water supplied by the Board was adequate for all domestic and industrial consumers. 702 bacteriological analyses were carried out on filtered and treated waters at Thrum Hall and Ogden Filter Houses and at various points throughout the distribution system, 98.9% of these samples were found to be highly satisfactory, bacteriologically.

All the 287 samples taken at Thrum Hall gave negative results in the Presumptive Coliform Test, five samples giving positive results were taken directly after filtration at Ogden, all of these samples contained B.Coli 1 (E. Coli). Of 27 samples taken from Ogden Brookfoot Reservoir, two samples contained B.Coli 1 and of the 27 samples from Ogden Kirk Reservoir the one positive was non-faecal in character, the rest were found to be free from coliform organisms.

The contamination in Ogden Kirk Reservoir occurred in January and was limited to one sample in 27. The number of organisms

being only 2 per 100 mls. and being identified as B.Coli II, an organism not considered as being specifically faecal in origin.

The two contaminated samples occurring in Ogden Brookfoot treated water reservoir were B.Coli I (E.Coli) each containing again 2 organisms per 100 mls.

Both these incidents occurred after heavy rainfall and when the water was heavily coloured and turbid.

After each of the incidents the reservoirs were dosed with sodium hypochlorite solution and samples taken immediately after this chlorination were found to be free from coliform bacteria.

All samples taken from the distribution system throughout the Borough were highly satisfactory bacteriologically.

## CHEMICAL ANALYSES

Chemical Analyses were carried out on five samples of Thrum Hall filtered water at intervals throughout the year. The average values appear below:—

|  |    |    |    |      |
|--|----|----|----|------|
| Total solids dried at 180°F                          | .. | .. | .. | 71.2 |
| Chlorine (chlorides)                                 | .. | .. | .. | 13.1 |
| Free Ammonia (N)                                     | .. | .. | .. | 0.03 |
| Albuminoid Ammonia (N)                               | .. | .. | .. | 0.08 |
| Oxygen absorbed from Permanganate in 4 hours at 80°F | .. | .. | .. | 0.45 |
| Temporary Hardness (as Ca CO <sub>3</sub> )          | .. | .. | .. | 4.0  |
| Permanent Hardness (as Ca CO <sub>3</sub> )          | .. | .. | .. | 28.4 |
| Nitrous Nitrogen..                                   | .. | .. | .. | Nil  |
| Nitric Nitrogen                                      | .. | .. | .. | 0.34 |
| Lead in solution                                     | .. | .. | .. | Nil  |
| Lead absorbed in 24 hours                            | .. | .. | .. | Nil  |
| Manganese (Mn)                                       | .. | .. | .. | 0.11 |
| Iron (Fe)  | .. | .. | .. | 0.08 |
| pH value   | .. | .. | .. | 8.7  |
| Colour in °Hazen                                     | .. | .. | .. | 6°   |
| Turbidity—silica scale                               | .. | .. | .. | 1.3  |
| Total residual chlorine                              | .. | .. | .. | 0.26 |
| Free carbon dioxide                                  | .. | .. | .. | Nil  |
| Calcium hardness (as Ca CO <sub>3</sub> )            | .. | .. | .. | 18.2 |

All results expressed in parts per million.

Five chemical analyses were carried out on raw water arriving at Thrum Hall Filter House from Victoria and Albert reservoirs, the average values of which are given below:

|  |    |    |    |      |
|--|----|----|----|------|
| Total solids dried at 180°F                          | .. | .. | .. | 81   |
| Chlorine (as chlorides)                              | .. | .. | .. | 13.1 |
| Free Ammonia (as N)                                  | .. | .. | .. | 0.04 |
| Albuminoid Ammonia (as N)                            | .. | .. | .. | 0.12 |
| Oxygen absorbed from Permanganate in 4 hours at 80°F | .. | .. | .. | 2.12 |
| Temporary hardness (as $\text{Ca CO}_3$ )            | .. | .. | .. | Nil  |
| Permanent hardness as $\text{Ca CO}_3$               | .. | .. | .. | 23.8 |
| Nitrous Nitrogen                                     | .. | .. | .. | Nil  |
| Nitric Nitrogen                                      | .. | .. | .. | 0.23 |
| Lead in solution                                     | .. | .. | .. | Nil  |
| Lead absorbed in 24 hours                            | .. | .. | .. | 2.4  |
| Manganese (Mn)                                       | .. | .. | .. | 0.17 |
| Iron (Fe)  | .. | .. | .. | 0.52 |
| pH value   | .. | .. | .. | 4.78 |
| Colour (°Hazen)                                      | .. | .. | .. | 45°  |
| Turbidity—Silica Scale                               | .. | .. | .. | 8.4  |
| Total residual chlorine                              | .. | .. | .. | —    |
| Free carbon dioxide                                  | .. | .. | .. | 6.4  |
| Calcium hardness (as $\text{Ca CO}_3$ )              | .. | .. | .. | 11.2 |

The treatment at Thrum Hall Filter House includes the addition of lime and sodium aluminate before filtration and lime and chlorine after filtration.

During 1968, pre-chlorination was carried out in which a small dose (approximately 0.2 p.p.m.) of chlorine was added to the water before filtration as an additional safeguard.

From the Chemical Analyses it can be seen that the treatment effectively controls any tendency to plumbo-solvency present in the untreated raw water.

10.4 million gallons of water were treated each day and the addition of chemicals was checked and adjusted daily.

The treatment at Ogden Filter House is similar to that at Thrum Hall except that sodium carbonate is used instead of lime and the volume of water treated daily is much less, being approximately 500,000 gallons.

The naturally occurring fluoride content of the water leaving Thrum Hall Filter House is 0.15 p.p.m. as F. This is an average figure of some eighteen results varying from 0.08 to 0.18 p.p.m. The average fluoride content for Ogden water is 0.11 p.p.m. as F.

#### NUMBER OF DWELLINGHOUSES AND POPULATION SUPPLIED

- (a) Direct to the house ... 35,915\*    94,280
- (b) By means of stand pipe Nil

*\*Figure includes 670 combined shops/dwellings*

## SEWERAGE

I am indebted to Mr. Geoffrey Holden, A.M.Inst.C.E., A.R.I., C.S., M.I.Mun.E., Borough Engineer, for the following report:

I fear that the position in regard to the town's sewerage system remains much as it was in 1967.

The development of the Keighley Road West area by the Housing Committee has necessitated the duplication of the main sewer from Shay Lane northwards along Keighley Road to the new estate. As part of the scheme a new surface water overflow has been constructed at Shay Lane, these works which will cost some £80,000 are nearly completed.

There have been a number of private building sites developed during the year and all these have been adequately served with public sewers.

Unfortunately, little progress has been made to solve the problem of providing sewerage systems to outlying areas of the town. I dealt with this aspect of the matter in some detail in 1967. The Highways Committee have decided that the first area to be tackled should be at Wainstalls where you have had adverse reports on the local private water supplies. Unfortunately, the cost of the project proved too big for the Highways Committee to face in the present financial climate and the job has been left out of the current year's programme. We can but hope that this vital work will proceed as soon as money becomes available.

## CLEANSING

I am indebted to Mr. Churm, M.I.T.A., Cleansing and Transport Manager, for details supplied regarding Public Cleansing.

### PUBLIC CLEANSING SERVICES

A slight improvement in the labour situation is shown in 1968, there being a 125% turnover as against 137% turnover in 1967.

### REFUSE DISPOSAL

Controlled tipping has been carried out both at Birks Hall and in Roystons valley. Whilst a consolidation layer has been tipped in the valley, the main tipping has been carried out at Birks Hall, where the final stages have been reached in the completion of this area. Over the past five years, the area that will be available for playing fields, etc, has been almost trebled.

Our standard of tipping has been maintained and serious experiments carried out with weed-killing. The co-operation of several manufacturers of weed-killing materials has been obtained in an effort to combat what is becoming a very serious problem.

## STREET CLEANSING AND GULLY EMPTYING

Improvements have been brought about mainly by the working of night staff, and as I see the situation as it is at present, the future trends are that more night working will have to be carried out if Street Cleansing sections are to work efficiently and without hindrance from the increasing volume of traffic now taking to the roads.

The use of neat salt in the snow has proved beneficial in that the work is done more efficiently and there is no grit left on the roads to be picked up by the Street Cleansing service.

## REFUSE COLLECTION

In spite of all the difficulties of obtaining labour, the incidence of sickness, etc., a weekly collection cycle has been maintained throughout the year, with the exception of Easter, Whitsuntide and Christmas, and in the case of these three periods, within ten days after the holiday, the town is again on a weekly collection service.

## WATER POLLUTION CONTROL

I am indebted to Mr. H. Ives, A.M.I.Mech.E., M.Inst.S.P., Manager, for the following report:

The efficient purification of domestic and industrial liquid wastes is an important and essential link in the chain of public health services.

All drainage from the Borough, with the exception of certain fringe areas referred to later, eventually arrives at the Water Pollution Control Works sited at the lowest point in the town on three separate but adjacent areas of land at Salterhebble, Copley and North Dean.

Apart from the small volume from Copley village which has to be pumped up to the Wakefield Road sewer, the liquid wastes gravitate to the Works, where they are purified to the requirements of the Yorkshire Ouse and Hull River Authority before discharge into the River Calder.

The method of purification in use consists of acid precipitation and settlement followed by biological oxidation effected partly by bacteria beds and partly by activated sludge units. Because of the need to deal with 93 discharges of industrial wastes from 73 different premises in the Borough, in addition to the normal domestic waste, the Works have to be about twice the size that would otherwise be required.

The solid residues extracted during purification are mechanically dewatered and processed to yield by-products in the form of sterile, pulverised, organic fertilisers and industrial grease. These are subsequently sold, thereby achieving in a hygienic manner complete and positive disposal of these otherwise objectionable

residues, and at the same time producing an income which makes a useful contribution to the overall cost of operating the Works.

During 1968, a total volume of 2,600,380,000 gallons of domestic and industrial wastes were given full treatment, an average of 7,104,863 gallons for each day of the year, from which 34,249 tons of wet solids were extracted yielding after processing 2,308 tons of organic fertilisers and 243 tons of grease.

The parts of the Borough which are in different catchment areas and therefore do not drain to the Halifax Water Pollution Control Works, referred to above, are the Warley and Luddenden district which drains to the Works of the Luddenden Foot Joint Sewerage Board on which Halifax is represented, and the Northowram area which by agreement drains to the Works of the Brighouse Corporation.

A scheme to modernise and extend the Halifax Works, so as to be able to deal satisfactorily with a daily dry weather flow of  $7\frac{1}{2}$  million gallons, has been approved by the Council and the Minister of Housing and Local Government. This involves the estimated expenditure of £2½ million over the next few years, but is absolutely essential if the worn out and obsolete plant and equipment, some of which is now more than 60 years old, is to be replaced with new, and its capacity extended to enable it to comply with the requirements of the Yorkshire Ouse and Hull River Authority in respect of the volume to be treated and the standard of the effluent required for discharge into the River Calder.

Actual construction work commenced on the 1st February, 1967, with the start of the first contract for the civil engineering part of a 40-cone 'Simplex' Activated Sludge Unit, with associated pump house, roads and pipeworks, at the Copley Works.

By the end of the year this was almost complete, and the installation of the mechanical and electrical equipment, which comprised the second contract, was in progress.

December 1st, 1967, saw the start of a third contract, for the construction of an Offices-Laboratory Building and a Workshops-Workmen's Accommodation Building at the North Dean Works, on which substantial progress had been made by the end of the year.

## SECTION V

### HOUSING AND ENVIRONMENTAL CIRCUMSTANCES

*Information supplied by Mr. A. W. Perry,  
Chief Public Health Inspector*

Because of a desire to fill up some of the open spaces in Halifax caused by previous Compulsory Purchase Orders, further representation of Clearance Areas was deferred during the year at the request of the Council. Only 21 houses were dealt with, mainly houses with tub closets. Although the representation of unfit houses was held up many discussions took place during the year with representatives of the owners on the proposal to designate Environmental Improvement Areas at Lee Mount and Lytham Street. The Gladstone Road Improvement Area was declared, the Preliminary and Intermediate Improvement Notices served on the tenanted houses and letters were addressed to owner/occupiers asking for their co-operation in improving their properties. There were only 19 tenanted houses out of a total of 237 but this is a situation which is common in Halifax where most of the smaller property is owner/occupied. The response to the letters was not particularly encouraging and further letters have since been addressed to the owners in the hope that they will improve their houses rather than have Compulsory Purchase procedures commenced.

Applications for Standard and Improvement Grants increased from 337 to 442 and there was also a welcome increase in applications from tenanted houses to 21% (11.9% in 1967)

The sampling of raw milk for Brucellosis still takes up time, although only one sample proved positive. In an area including a dairy with a pasteurising plant it is surprising how much milk is still sold in its raw state and how little the public know the risks they are taking.

Our poultry inspection system is working satisfactorily bearing in mind the staff available. Over 2 million birds were dealt with in the year and this industry has reached such proportions that more poultry meat by weight is produced in the town than meat is produced at the public abattoir. The need for inspection is seen when the total condemnations of poultry meat exceeds in weight all the other condemnations of unfit food.

The amount of smoke pollution in the town has remained comparatively steady. Compared with national figures we are still on the high side both with sulphur dioxide pollution and smoke pollution even though there has been a welcome decrease since 1958. Smoke control has now reached the stage when 50 per cent of the houses are the subject of smoke control orders but the results show there is still a need to continue the programme of conversions with all speed.

It may be a sign of the times but complaints about noise nuisances increased from 42 in 1967 to 59 in 1968. Twenty-five of the complaints were not justified. Of the remainder six were domestic complaints about dogs barking, loud radios, neighbours banging, etc., where a word with the owner was sufficient. The twenty-eight industrial complaints referred to noisy fans, noisy machinery, ice cream chimes, noisy works radio, and hammering of packing cases for export.

The number of unsatisfactory foods still continues at a high level and the extraneous matter found in the food is still as surprising as ever it was.

## **Housing**

### **BLACKPOOL STREET COMPULSORY PURCHASE ORDER**

This was represented on the 12th September, 1968. It comprised 10 houses.

### **BOOHTOWN COMPULSORY PURCHASE ORDER**

By the end of the year all 110 properties had been demolished.

### **BROAD TREE COMPULSORY PURCHASE ORDER**

This was confirmed on the 10th May, 1968. By the end of the year 80% of families had been rehoused. The Order comprises 41 houses.

### **CHATHAM STREET COMPULSORY PURCHASE ORDER**

By the end of the year all 385 houses in this Order had been demolished.

### **COLLIER TOPPIN COMPULSORY PURCHASE ORDER**

This was represented on the 18th July, 1968 and confirmed on the 3rd December, 1968. It comprises 4 houses.

### **COMMERCIAL ROAD (NORTH NO. 2) COMPULSORY PURCHASE ORDER**

By the end of the year all 182 houses had been demolished.

### **COMMERCIAL ROAD (SOUTH) COMPULSORY PURCHASE ORDER**

By the end of the year all 191 properties had been demolished.

### **CORPORATION STREET COMPULSORY PURCHASE ORDER**

By the end of the year only four vacant houses were standing. This Order contained 234 houses.

### **CROSSLEY TERRACE COMPULSORY PURCHASE ORDER**

This was confirmed on February 28th, 1968. By the end of the year 50% of families had been rehoused. The Order comprised 417 houses.

#### EXLEY BANK COMPULSORY PURCHASE ORDER

This was confirmed on the 23rd May, 1968. At the end of the year two out of four houses in the Order were vacant.

#### HAVELOCK STREET COMPULSORY PURCHASE ORDER

This was confirmed on the 23rd May, 1968. By the end of the year all except seven families had been rehoused. The Order comprised 49 houses.

#### HORLEY GREEN AND GODLEY ROAD COMPULSORY PURCHASE ORDER

By the end of the year 95 of the 402 houses in the Order had been demolished and of the houses still standing in the Order 90% were vacant.

#### PAGE HILL COMPULSORY PURCHASE ORDER

By the end of the year all families had been rehoused and all twelve houses had been demolished.

#### PULE HILL CLEARANCE AREA

This was represented on the 18th July, 1968 It comprises 7 houses.

#### RAMSDEN STREET COMPULSORY PURCHASE ORDER

This was confirmed on the 30th January, 1968. By the end of the year 90% of families had been rehoused. The Order comprised 56 houses.

#### STANNARY STREET COMPULSORY PURCHASE ORDER

By the end of the year 161 properties had been demolished, leaving only 9 properties still standing.

#### THOMAS STREET EAST COMPULSORY PURCHASE ORDER

This was confirmed on the 30th April, 1968. By the end of the year 50% of families had been rehoused. The Order comprised 118 houses.

#### **Closing and Demolition Orders, etc., Housing Act 1957, Sections 16—18**

The following 10 houses had closing orders placed upon them under the provisions of the above Act during the year:

|                          |                        |
|--------------------------|------------------------|
| 8/9 Blaithroyd Terrace   | 9 Ramsden Street       |
| 12 Broad Tree Terrace    | 1 Sunny Bank, Wheatley |
| 2 Eddlestone Buildings   | 16 Walker Street       |
| 3/4 Eddlestone Buildings | 7 Waterhouse Terrace   |
| 310 Ovenden Road         | 120 Wheatley Road      |

The following 8 houses had demolition orders placed upon them during the year:

|                         |                         |
|-------------------------|-------------------------|
| 28 Page Hill            | 2 Birdholme, Northowram |
| 6a Bradshaw Lane        | 3 Birdholme, Northowram |
| 7 Bradshaw Lane         | 11 Brick Row, Siddal    |
| 1 Birdholme, Northowram | 12 Brick Row, Siddal    |

### Closing Orders, Substitution of Demolition Order, Housing Act, 1957 Section 28

A Closing Order on No. 30 Lower Skircoat Green was revoked and a demolition order substituted therefor.

### Improvements and Standard Grants

The number of applications for grants increased from 337 in 1967 to 442 in 1968 and the number of grants approved increased from 279 in 1967 to 397 in 1968. The number of grants completed decreased by 11 (356 in 1967 — 345 in 1968).

Improvements to the houses in Copley Village are now all completed and it is hoped that some improvement in the roads and gardens and external paintwork will soon be started.

All work is now completed on the Mackintosh Memorial Homes, where 8 dwellinghouses have been improved.

Improvement work is going ahead in the Churn Milk Lane and Westward Ho, and Providence Row Improvement schemes.

The percentage of requests for grants for tenanted houses has increased from 11.9% in 1967 to 21.04% in 1968.

The following table shows details of applications submitted during the year.

| Type of Grant | No. of applications submitted | Granted | Rejected | Completed | Amount paid in respect of work in previous column | Withdrawn after being approved |
|---------------|-------------------------------|---------|----------|-----------|---|--------------------------------|
| Standard      | 339                           | 303     | 17       | 247       | £30,575 2 11                                      | 10                             |
| Improvement   | 103                           | 94      | 4        | 98        | £22,969 8 0                                       | 10                             |
| Total         | 442                           | 397     | 21       | 345       | £53,544 10 11                                     | 20                             |

An analysis of the 247 completed Standard Grants shows that the amenities provided are as shown below:

#### Owner-Occupied Houses

| Total Grants | Baths | Wash Basins | Hot Water | Water Closets | Food Stores | Septic Tanks | Mains Water |
|--------------|-------|-------------|-----------|---------------|-------------|--------------|-------------|
| 217          | 180   | 177         | 189       | 193           | 205         | 5            | 2           |

#### Tenanted Houses

| Total Grants | Baths | Wash Basins | Hot Water | Water Closets | Food Stores | Septic Tanks | Mains Water |
|--------------|-------|-------------|-----------|---------------|-------------|--------------|-------------|
| 30           | 26    | 25          | 27        | 26            | 26          | —            | —           |

An analysis of the 98 completed Improvement Grants shows that the amenities provided are as shown below:

| Owner-Occupied Houses |              |                    |                  |                      |                    |                     |                 |                    |
|-----------------------|--------------|--------------------|------------------|----------------------|--------------------|---------------------|-----------------|--------------------|
| <i>Total Grants</i>   | <i>Baths</i> | <i>Wash Basins</i> | <i>Hot Water</i> | <i>Water Closets</i> | <i>Food Stores</i> | <i>Septic Tanks</i> | <i>Kitchens</i> | <i>Conversions</i> |
| 59                    | 49           | 46                 | 51               | 47                   | 53                 | 8                   | 27              | 6                  |

| Tenanted Houses     |              |                    |                  |                      |                    |                     |                 |                    |
|---------------------|--------------|--------------------|------------------|----------------------|--------------------|---------------------|-----------------|--------------------|
| <i>Total Grants</i> | <i>Baths</i> | <i>Wash Basins</i> | <i>Hot Water</i> | <i>Water Closets</i> | <i>Food Stores</i> | <i>Septic Tanks</i> | <i>Kitchens</i> | <i>Conversions</i> |
| 39                  | 38           | 38                 | 38               | 22                   | 39                 | 1                   | 28              | 25                 |

The Housing Act of 1964 gave powers to local authorities to provide for the compulsory improvement of tenanted houses by the declaration of improvement areas and also at the request of the tenant.

The Gladstone Road Improvement Area was approved as an Improvement Area by the Council on 7th February, 1968. Of the 237 properties in Gibbet Street, Grosvenor Terrace, Cavendish Terrace, Gladstone Road, Cromwell Terrace and Hanson Lane, 218 properties are owner/occupied and 19 houses are tenanted.

Of the 19 tenanted houses, by the end of the year 4 had been improved to the full standard (in three cases privately and in one case with the aid of a standard grant which was applied for and approved after the service of a preliminary improvement notice). During the year, preliminary improvement notices were served on the persons having control of 16 tenanted properties. Eight immediate improvement notices and 3 subsequent improvement notices were served. In the case of the other 5 tenanted houses which were the subject of preliminary improvement notices, immediate improvement notices were to be served in respect of 3 houses in 1969. No further action was to be taken in respect of the 2 remaining tenanted houses because standard grant applications in respect of these 2 houses were received during the year.

Notices under Section 9 of the 1957 Housing Act, requiring that houses be repaired so as to make them fit houses were served in respect of 12 of the tenanted properties. By the end of the year 7 of these 12 notices had been complied with. Authority to do the work in default of 2 owners was obtained. In 3 cases work of repair was either promised or put in hand.

Of the 218 properties other than tenanted houses, 195 are owner/occupied houses. Of these 195, there were at the end of the year 67 houses with all amenities except a ventilated foodstore. A further 46 houses had been improved with the aid of grants, and 5 already had the five standard amenities. In addition, a further 14 grants had been approved by the end of the year. Letters were sent to 63 owner/occupiers in the area, explaining the

grant system and requesting the owner/occupiers to consider improving their houses with the aid of a grant. The letters also informed the owner/occupiers that the Council had powers for the eventual compulsory purchase of houses not improved.

### **Compulsory Improvement of Properties**

An immediate improvement notice served in February requiring an owner to improve a house by the installation of a bath, wash basin, internal water closet, ventilated foodstore and hot and cold water supplies to relevant fittings, was complied with during the year.

In the case of two further properties, immediate improvement notices were served during the year. These notices become operative in early 1969.

In addition, there were five requests from tenants for the compulsory improvement of houses. The owners of the houses concerned were notified of these requests and in two cases grants were applied for and approved. One of these grants was completed during the year. In the case of the other three houses, the owners were to be contacted again in early 1969, and in the event of non-compliance, statutory notices will be served.

### **Houses in Multiple Occupation**

During the year 71 visits were made in connection with houses in multiple occupation. Subsequently 11 letters were sent to the Chief Fire Officer requesting his observations regarding the means of escape in case of fire. Seven informal notices were sent to the persons having control of houses in multiple occupation, and three of these notices were complied with.

### **Rent Act 1957—Certificates of Disrepair**

One application for a Certificate of Disrepair which was granted was received during the year. There were no applications for cancellation of Certificates of Disrepair or applications as to the remedying of defects.

## Housing Statistics

### HOUSES DEMOLISHED

|   |  |     |
|---|--|-----|
| IN OR<br>ADJOINING<br>CLEARANCE<br>AREAS  | Unfit for human habitation .. .. .   | 500 |
|   | Included by reason of bad arrangement .. ..  | 11  |
|   | On land acquired under Section 43(2) Housing Act, 1957 .. .. .   | 33  |
| NOT IN OR<br>ADJOINING<br>CLEARANCE<br>AREAS  | As a result of formal or informal procedure under Section 16 or Section 17(1) Housing Act, 1957 ..                     | 5   |
|   | Local authority owned houses certified unfit by the Medical Officer of Health .. .. .                                  | —   |
|   | Houses unfit for human habitation where action has been taken under local Acts .. .. .                                 | —   |
|   | Houses included in unfitness orders made under para 2 of the Second Schedule to the land compensation Act 1961 .. .. . | —   |
| Number of houses included above which were previously reported as closed in pursuance of closing orders or undertakings .. .. |  | 13  |

### UNFIT HOUSES CLOSED IN PURSUANCE OF CLOSING ORDERS OR UNDERTAKINGS

|   |    |
|---|----|
| Under Sections 16(4), 17(1) and 35(1) Housing Act 1957 and Section 26 Housing Act, 1961 .. .. . | 18 |
| Under Sections 17(3) and 26 Housing Act, 1957 .. .. .   | —  |
| Parts of Buildings Closed under Section 18 Housing Act 1957 ..                                  | —  |

### PERSONS DISPLACED

|  |     |
|--|-----|
| From houses to be demolished in or adjoining clearance areas ..  | 874 |
| From houses to be demolished not in or adjoining clearance areas | 52  |
| From houses to be closed .. .. .                                 | 14  |
| From parts of buildings to be closed .. .. .                     | —   |

## Housing Statistics—cont.

### FAMILIES DISPLACED

|  |     |
|--|-----|
| From houses to be demolished in or adjoining clearance areas ..    | 274 |
| From houses to be demolished not in or adjoining clearance areas.. | 23  |
| From houses to be closed .. .. .                                   | 7   |
| From parts of buildings to be closed .. .. .                       | —   |

### UNFIT HOUSES MADE FIT

|  |     |
|--|-----|
| After informal action by local authority:  |     |
| By owner .. .. .   | 516 |
| After formal notice under Sections 9 and 16 Housing Act 1957:  |     |
| By owner .. .. .   | 7   |
| By local authority .. .. .   | —   |
| After formal notice under Public Health Acts .. .. .   | 128 |
| Previously included in a clearance order which has been or will be modified or revoked under Section 24 Housing Act, 1961 .. | —   |
| Previously included in a demolition order which has been or will be revoked under Section 24 Housing Act, 1957 .. .. .       | —   |
| Previously included in a closing order which has been or will be determined under Section 27 Housing Act, 1957.. .. .        | 1   |

### HOUSES IN WHICH DEFECTS WERE REMEDIED (Other than unfit houses made fit)

|   |     |
|---|-----|
| After formal notice under Public Health Acts.. .. . | 128 |
|---|-----|

### PURCHASE OF HOUSES BY AGREEMENT

|  |    |
|--|----|
| Houses in clearance areas other than those included in confirmed orders or compulsory purchase orders: .. .. . |    |
| Number of houses .. .. .   | 37 |
| Number of occupants .. .. .  | 58 |

# SANITARY CIRCUMSTANCES

## and

## SANITARY INSPECTION OF THE AREA

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### Description of the Work of the Public Health Inspectors' Inspections and Visits not including re-inspections

#### DWELLINGHOUSES:—

|  |       |
|--|-------|
| Primary Inspections under the Housing Acts .. .. .       | 612   |
| Subsequent Inspections under the Housing Acts .. .. .    | 64    |
| Work in progress under the Housing Acts .. .. .          | 1     |
| “Well-maintained” payments .. .. .                       | 68    |
| Official Count .. .. .                                   | 24    |
| Standard and Improvement Grants .. .. .                  | 1,963 |
| Certificates of Disrepair .. .. .                        | 2     |
| Inspection on behalf of Housing Manager .. .. .          | 1     |
| Sanitary defects .. .. .                                 | 2,012 |
| Notifiable diseases .. .. .                              | 92    |
| Food Poisoning .. .. .                                   | 8     |
| Pathological Specimens .. .. .                           | 99    |
| Dirty and/or verminous conditions .. .. .                | 55    |
| Overcrowding .. .. .                                     | 13    |
| Moveable Dwellings .. .. .                               | 20    |
| Common Lodging Houses .. .. .                            | —     |
| Visits to lettings—Houses in Multiple Occupation .. .. . | 71    |
| Sale of Property to Council .. .. .                      | 150   |
| Public Enquiry .. .. .                                   | 114   |
| Survey Re-Improvement Areas .. .. .                      | 6,055 |

#### DRAINAGE:—

|  |     |
|--|-----|
| Public sewers inspected .. .. .                    | 181 |
| Public sewers tested .. .. .                       | 70  |
| Drains inspected, special inspections only .. .. . | 80  |
| Drains tested .. .. .                              | 178 |
| Ditches and Watercourses .. .. .                   | 9   |

#### FACTORIES:—

|                                   |    |
|-----------------------------------|----|
| Factories (with power) .. .. .    | 31 |
| Factories (without power) .. .. . | 3  |
| Outworkers' premises .. .. .      | 1  |
| Workplaces (General) .. .. .      | 3  |
| Workplaces (Offices) .. .. .      | —  |

#### SHOPS:—

|                      |     |
|----------------------|-----|
| General .. .. .      | 346 |
| Mobile Shops .. .. . | 46  |

# OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963:—

|  |     |
|--|-----|
| Offices .. .. .                              | 82  |
| Retail Shops .. .. .                         | 174 |
| Wholesale shops and Warehouses .. .. .       | 36  |
| Catering establishments and canteens .. .. . | 66  |
| Accidents .. .. .                            | 24  |

## FOOD PREMISES:—

|                                  |     |
|----------------------------------|-----|
| Milk Distributors .. .. .        | 16  |
| Dairies .. .. .                  | 12  |
| Milkshops .. .. .                | 3   |
| Fried Fish Shops .. .. .         | 11  |
| Bakehouses .. .. .               | 18  |
| Butchers' Shops .. .. .          | 22  |
| Ice Cream premises .. .. .       | 53  |
| Restaurants, Cafes, etc. .. .. . | 91  |
| School Canteens .. .. .          | 2   |
| Licensed Premises .. .. .        | 117 |
| Other food premises .. .. .      | 76  |

## SMOKE CONTROL:—

|  |       |
|--|-------|
| Smoke Observations .. .. .             | 546   |
| Works, etc., re smoke emission .. .. . | 50    |
| Works, etc., re Prior Approval .. .. . | 1     |
| Works, etc. re Chimney Heights .. .. . | 21    |
| Smoke Control Areas .. .. .            | 1,765 |
| Atmospheric Pollution Gauges .. .. .   | 1,512 |

## SAMPLING:—

|   |     |
|---|-----|
| Foods and Drugs Act, 1955 .. .. .         | 114 |
| Bacteriological samples—Milk .. .. .      | 65  |
| Bacteriological samples—Ice Cream .. .. . | 40  |
| Biological examination—Milk .. .. .       | —   |
| Brucellosis—Milk .. .. .                  | 41  |
| Water .. .. .                             | 36  |
| Swimming Baths Water .. .. .              | 89  |

## GENERAL:—

|  |     |
|--|-----|
| Premises re Rag Flock Acts .. .. .                     | 5   |
| Premises re Fertilisers and Feeding Stuffs Act .. .. . | 10  |
| Premises re Pharmacy and Poisons Act .. .. .           | 15  |
| Premises re Merchandise Marks Act .. .. .              | 25  |
| Stables re nuisances .. .. .                           | —   |
| Fowls, Swine and other animals .. .. .                 | 41  |
| Schools .. .. .  | —   |
| Places of Public Entertainment .. .. .                 | 19  |
| Public Sanitary Conveniences .. .. .                   | 362 |
| Abattoir .. .. .                                       | 34  |
| Noise Nuisances .. .. .                                | 59  |
| Pet Shops .. .. .                                      | 18  |
| Offensive Trades .. .. .                               | —   |

|  |        |
|--|--------|
| Knackers' Yards .. .. .                          | —      |
| Rodent Control .. .. .                           | 75     |
| Accumulations of Refuse .. .. .                  | 180    |
| Interviews .. .. .                               | 590    |
| Animal Boarding Est. Act .. .. .                 | 1      |
| Hairdressers re bye laws .. .. .                 | 3      |
| Riding Establishment Act .. .. .                 | 4      |
| Miscellaneous visits .. .. .                     | 4,749  |
| <hr/>  |        |
| Total number of inspections and visits .. .. .   | 23,645 |
| Total number of re inspections .. .. .           | 7,455  |
| <hr/>  |        |
| Total number of inspections of all types .. .. . | 31,100 |
| <hr/>  |        |

**Particulars of work done, nuisances abated or improvements effected**

**DWELLINGHOUSES:—**

|   |     |
|---|-----|
| General repairs .. .. .                                   | 494 |
| Dirty houses cleansed .. .. .                             | 35  |
| Overcrowding abated .. .. .                               | —   |
| Council houses found bug-infested and disinfested .. .. . | 77  |
| Other houses found bug-infested and disinfested .. .. .   | 13  |
| Houses cleared of other vermin .. .. .                    | 26  |
| Common lodging houses .. .. .                             | —   |
| Houses-let-in-Lodgings .. .. .                            | —   |
| Movable dwellings .. .. .                                 | 2   |

**DRAINAGE:—**

|   |     |
|---|-----|
| Sewers cleansed .. .. .                             | 176 |
| Drains cleansed and/or repaired .. .. .             | 141 |
| Public sewers repaired and/or reconstructed .. .. . | 47  |
| Drains reconstructed or new drains provided .. .. . | 46  |

**FACTORIES:—**

(Nuisances abated or improvements effected)

|                                   |    |
|-----------------------------------|----|
| Factories (with power) .. .. .    | 12 |
| Factories (without power) .. .. . | 1  |
| Workplaces (General) .. .. .      | —  |
| Workplaces (Offices) .. .. .      | 1  |

**SHOPS:—**

(Nuisances abated or improvements effected)

|                      |    |
|----------------------|----|
| General .. .. .      | 33 |
| Mobile Shops .. .. . | 1  |

**OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963:—**

(Nuisances abated or improvements effected)

|                   |    |
|-------------------|----|
| Shops .. .. .     | 84 |
| Accidents .. .. . | —  |
| Offices .. .. .   | 34 |

# FOOD PREMISES:—

(Nuisances abated or improvements effected)

|                          |    |    |    |    |    |    |    |
|--------------------------|----|----|----|----|----|----|----|
| Milk Shops               | .. | .. | .. | .. | .. | .. | —  |
| Dairies                  | .. | .. | .. | .. | .. | .. | 4  |
| Fried Fish Shops         |    | .. | .. | .. | .. | .. | 2  |
| Bakehouses               | .. | .. | .. | .. | .. | .. | 8  |
| Butchers                 | .. | .. | .. | .. | .. | .. | 21 |
| Ice Cream Premises       | .. | .. | .. | .. | .. | .. | 3  |
| Restaurants, Cafes, etc. |    | .. | .. | .. | .. | .. | 34 |
| School Canteens          | .. | .. | .. | .. | .. | .. | 1  |
| Licensed Premises        | .. | .. | .. | .. | .. | .. | 27 |
| Other food premises      | .. | .. | .. | .. | .. | .. | 36 |

# SMOKE CONTROL:—

(Improvements effected)

|                                    |    |    |    |    |    |    |   |
|------------------------------------|----|----|----|----|----|----|---|
| Boiler plants re emission of smoke | .. | .. | .. | .. | .. | .. | 3 |
|------------------------------------|----|----|----|----|----|----|---|

# GENERAL:—

(Nuisances abated or improvements effected)

|   |    |    |    |    |    |    |       |
|---|----|----|----|----|----|----|-------|
| Fowls, Swine and other animals                  | .. | .. | .. | .. | .. | .. | 4     |
| Stables   | .. | .. | .. | .. | .. | .. | 1     |
| Schools   | .. | .. | .. | .. | .. | .. | —     |
| Places of Public Entertainment                  | .. | .. | .. | .. | .. | .. | —     |
| Public Sanitary Conveniences                    | .. | .. | .. | .. | .. | .. | 149   |
| Noise   | .. | .. | .. | .. | .. | .. | 13    |
| Pet Shops                                       | .. | .. | .. | .. | .. | .. | 3     |
| Accumulations of Refuse                         | .. | .. | .. | .. | .. | .. | 123   |
| Merchandise Marks Act (Contraventions remedied) | .. | .. | .. | .. | .. | .. | 11    |
| Miscellaneous sanitary improvements             | .. | .. | .. | .. | .. | .. | 104   |
| Total   | .. | .. | .. | .. | .. | .. | 1,770 |

# SAMPLES OBTAINED:—

|  |    |    |    |    | Formal | Informal |
|--|----|----|----|----|--------|----------|
| Food and Drugs Act, 1955                             | .. | .. | .. | .. | 79     | 226      |
| Milk—Bacteriological                                 | .. | .. | .. | .. | —      | 55       |
| Milk—Biological                                      | .. | .. | .. | .. | —      | —        |
| Milk—Brucellosis                                     | .. | .. | .. | .. | —      | 104      |
| Ice Cream—Bacteriological                            | .. | .. | .. | .. | —      | 40       |
| Water  | .. | .. | .. | .. | —      | 35       |
| Swimming Baths Water                                 | .. | .. | .. | .. | —      | 70       |
| Fertilisers and Feeding Stuffs                       | .. | .. | .. | .. | —      | 13       |
| Fabrics (Misdescription) Act — Flame proof materials | .. | .. | .. | .. | —      | —        |
| Pathological Specimens                               | .. | .. | .. | .. | —      | 757      |
| Rag Flock  | .. | .. | .. | .. | 2      | —        |
| Total  | .. | .. | .. | .. | 81     | 1,300    |

# OFFICES, SHOPS AND RAILWAY PREMISES ACT, 1963

*Information supplied by Mr. A. W. Perry,  
Chief Public Health Inspector*

The total number of premises registered at the end of 1968 was 1,097, compared with 1,195 the previous year. The decrease in the number registered is because routine inspections revealed that Forms O.S.R. 1 had been received from occupiers of premises which were not registerable or which had been demolished under Slum Clearance programmes.

The number of newly registered premises during the year was 35.

There were 18 accidents notified during the year, none of them very severe. Advice was given in one case only.

53 notices were served regarding 125 contraventions.

Due to the shortage of a Specialist Inspector the routine inspections were carried out during the year by the District Public Health Inspector and 80% of the total registered premises have now been inspected.

**TABLE A**  
REGISTRATIONS AND GENERAL INSPECTIONS 1968

| Class of premises   | 1<br>No. of premises<br>newly<br>registered<br>during year | 2<br>Total No. of<br>registered<br>premises at end<br>of year | 3<br>No. of registered<br>premises receiving<br>one or more<br>general inspections<br>during the year |
|---|--|---|---|
| Offices .. .. .   | 10   | 296   | 26  |
| Retail shops .. .. .  | 23   | 627   | 73  |
| Wholesale shops and<br>warehouses .. .. .                         | —  | 60  | 1   |
| Catering establishments<br>open to the public,<br>canteens.. .. . | 2  | 111   | 15  |
| Fuel storage depots ..  | —  | 3   | 2   |
| Totals .. .. .  | 35   | 1,097   | 117   |

**TABLE B**  
Total No. of visits of all kinds by inspectors to registered premises .. .. . 284

**TABLE C**  
**ANALYSIS OF PERSONS EMPLOYED BY WORKPLACE**

| Class of workplace                           | No. of persons employed |        |       |
|--|-------------------------|--------|-------|
|  | Male                    | Female | Total |
| Offices .. .. .                              | 1,384                   | 1,708  | 3,092 |
| Shops .. .. .                                | 1,038                   | 2,040  | 3,078 |
| Wholesale departments,<br>warehouses .. ..   | 456                     | 50     | 506   |
| Catering establishments<br>open to public .. | 210                     | 412    | 622   |
| Canteens .. ..                               | 2                       | 38     | 40    |
| Fuel storage depots ..                       | 35                      | 1      | 36    |
| Totals .. .. .                               | 3,125                   | 4,249  | 7,374 |

### **Common Lodging Houses**

Since the Welfare Department took over Bramwell House in Carlton Place there have been no Common Lodging Houses licensed in the Borough.

### **Animal Boarding Establishments Act, 1963**

There were six applications for renewal of licences during the year. All the premises were inspected and licences granted in each case.

### **Fertilisers and Feeding Stuffs Act, 1926**

#### **Fertilisers and Feeding Stuffs Regulations, 1960**

Of the 13 samples obtained during the year 8 were of fertilisers and 5 were of feeding stuffs. One sample of feeding stuffs was unsatisfactory and the manufacturer was warned.

### **Pharmacy and Medicines Act, 1941**

At the end of the year there were 98 registered sellers of Part II Poisons, occupying 123 registered premises.

### **Rag Flock and other Filling Materials Act, 1951**

#### **Rag Flock and other Filling Regulations, 1961**

At the end of the year there were 8 premises registered under this enactment and all were in a satisfactory condition.

Two samples were taken, one of which was found to be unsatisfactory. The proprietor of the upholstery firm had a Town Clerk's letter of caution regarding this offence.

### **Pet Animals Act, 1951**

This Act requires that no person shall keep a Pet Shop except under a licence granted by the Local Authority.

Eight applications were received during the year and licences were granted in each case.

### **Places of Public Entertainment**

During the year 16 inspections were made of theatres, cinemas and other premises for which theatre licences are necessary, and conditions generally were found to be satisfactory.

### **Riding Establishments Act, 1964**

At the beginning of the year there were four riding establishments in the Borough. Three licences were renewed for a further period of twelve months and the fourth one was re-registered in different premises. Before licenses were granted an inspection was made of all the premises concerned by Public Health Inspectors, Veterinary Inspectors and the Fire Brigade. These proved satisfactory and licences were granted in each case.

### **Swimming Baths**

There are two public swimming baths in the Borough. The "Halifax Pool" was designated to conform with national racing requirements regarding length, and is provided with a special diving area. Accommodation for spectators has also been provided.

The capacity of the pool is approximately 240,000 gallons. Water is initially drawn from the town's mains and is constantly being circulated, purified and sterilised, circulation being at the rate of 80,000 gallons per hour. The whole of the bath water is passed through the filters, purified and sterilised every three hours. The bath water is being chemically treated for the whole twenty-four hours' cycle by Alumina, Chlorine and Sodium Carbonate.

The other public swimming pool at Woodside is 75 feet long and 36 feet wide and contains approximately 84,000 gallons. This water is circulated through the filters at the rate of 22,000 gallons per hour. The complete contents of the bath are passed through the filters in approximately four hours.

There are twenty-six slipper baths for men and twenty for women available at Woodside.

Both pools are open throughout the year.

Samples of swimming bath water are obtained each month from the public baths and from all school swimming baths and are submitted to bacteriological and chemical examination and results are generally satisfactory.

Caretakers at all schools where swimming baths are installed are instructed in the chlorination and proper treatment of the bath water.

## **Public Sanitary Conveniences**

Under the control of the Health Department are 45 public sanitary conveniences, consisting of 18 sanitary conveniences for males, 16 for females and 11 urinals.

At the main conveniences in town, Bull Green and George Square there are full-time attendants and there is a wash and brush up service, a parcel service, and facilities are available for free washing of hands after the use of the toilets.

Wash hand basins have been fixed at all other conveniences where it is possible to do so easily.

The Mixenden convenience is now under construction and a new convenience was planned for the Cow Green Development to incorporate facilities for those in mobile carriages. The Pellon Lane urinal was demolished to make way for road, etc. improvements.

Damage still occurs at all the conveniences, automatic locks and fittings being in constant need of repair or replacement.

## **INSPECTION OF WATER**

### **Domestic Supplies**

The Health Department has sampled various supplies. There were 15 samples taken either from spring supplies in outlying areas or from the mains supply. In five of the cases the samples were taken in connection with Standard or Improvement Grants. Two were taken when Demolition Orders were being made, three samples were for proposed water main extension schemes and the remainder were routine.

Steps were taken to trace the source of pollution and filters were fitted where necessary. Complaints about rust and corrosion were dealt with by the Calderdale Water Board who caused the mains to be flushed at regular intervals.

Five of the samples were satisfactory, seven not wholly satisfactory and three were not safe for human consumption.

### **Rural Water Supplies and Sewerage Acts**

The scheme for the extension of the Calderdale Water Board's mains to Jowler and Booth Bank was approved by the Ministry and work was completed. The Grindlestone Bank scheme was too expensive and a revised scheme is being drawn up by the Water Board to deal only with a dairy farm and adjoining houses. The Barm's Hill and Bowlshaw scheme for Northowram was deferred because of the financial implications. Schemes for Balkram Edge and Lower Shaw Booth were prepared and are being considered.

## RODENT CONTROL

*Information supplied by Mr. A. W. Perry,  
Chief Public Health Inspector*

During the year 457 complaints of rats and 847 of mice were received and treatments were carried out as shown below:

|                              | <i>Rats</i> | <i>Mice</i> | <i>Total</i> |
|------------------------------|-------------|-------------|--------------|
| Local Authority Premises ..  | 46          | 262         | 308          |
| Corporation Houses .. ..     | 67          | 440         | 507          |
| Private Business Premises .. | 198         | 522         | 720          |
| Private Dwelling Houses ..   | 544         | 1,075       | 1,619        |
| Churches .. .. .             | 3           | 4           | 7            |
| TOTAL                        | 858         | 2,303       | 3,161        |

No charge is made for the service to householders but a charge of 10/- per hour is made for business premises.

Normal treatment (as recommended by the Ministry of Agriculture, Fisheries and Food) consists of a bait of a blood anti-coagulant "topped up" until there are no more "takes".

1,680 manholes were treated by contract with '1081' between April and June. Of these 166 were re-inspected and complete takes were found in 30 cases—17.5%; part takes in 37 cases—22.7%; and no takes in 99 cases—59.8%.

Two meetings of the West Riding Pests Control Committee were held at the regional offices of the Ministry of Agriculture, Fisheries and Food at Leeds. This is a Liaison Committee between the Ministry and Local Authorities and about 60 Local Authorities were represented at each meeting. 'Recent Developments in Rodent Control' by Dr. E. W. Bentley, Head of the Ministry's Rodent Research Department was the subject of the first meeting; and 'Insect Pests' by Dr. J. A. Freeman, Head of the Ministry's Entomology Department was the subject of the second meeting. I was again elected Chairman for the year.

## FACTORIES

*From information supplied by Mr. A. W. Perry,  
Chief Public Health Inspector*

H.M. Inspector of Factories sent 7 notices (comprising 13 items) under Section 9 of the Factories Act, 1961. There were no complaints brought forward from 1967.

Of these, 5 complaints (9 items) were remedied during the year and 2 complaints (4 items) were outstanding at the end of the year.

The Public Health Inspectors found and remedied 4 other defects.

There were 12 outworkers on the register at the end of the year. There were no cases of outwork being carried on in unwholesome premises (Section 134).

# PART VIII OF THE ACT

## Outwork

(Sections 133 and 134)

| Nature of Work<br><br>(1) | Section 133  |  |  | Section 134  |                       |                     |
|---------------------------|--|--|--|--|-----------------------|---------------------|
|                           | No. of out-workers in August list required by Section 133 (c)<br>(2) | No. of cases of default in sending lists to the Council<br>(3) | No. of prosecutions for failure to supply lists<br>(4) | No. of instances of work in un-wholesome premises<br>(5) | Notices served<br>(6) | Prosecutions<br>(7) |
| Wearing apparel           | Making etc.  | 12   | —  | —  | —                     | —                   |
|                           | Cleaning and Washing   | —  | —  | —  | —                     | —                   |
| Total                     | 12   | —  | —  | —  | —                     | —                   |

**TABLE XXVII**  
**Inspections for Purposes of Provisions as to Health**

| Premises  | No. on Register | Number of   |                 |                      |
|---|-----------------|-------------|-----------------|----------------------|
|   |                 | Inspections | Written Notices | Occupiers Prosecuted |
| 1. Factories in which Sections 1, 2, 3, 4 and 6 are to be enforced by Local Authorities .. .. .             | 15              | 3           | —               | —                    |
| 2. Factories not included in (1) in which Section 7 is enforced by the Local Authorities .. .. .            | 633             | 31          | 4               | —                    |
| 3. Other premises in which Section 7 is enforced by the Local Authority* (excluding outworkers premises) .. | —               | —           | —               | —                    |
| Total .. .. .   | 648             | 34          | 4               | —                    |

\* i.e., Electrical Stations (S.123) (1) Institutions (S.124) and sites of Building Operations and Works of Engineering Construction (Section 127).

**TABLE XXVIII**  
**Cases in which defects were found**

| Particulars  | Number of cases in which defects were found |          |                   |                   | No. of cases in which prosecutions were instituted |
|--|---|----------|-------------------|-------------------|--|
|  | Found                                       | Remedied | Referred          |                   |  |
|  |   |          | To H.M. Inspector | By H.M. Inspector |  |
| Want of Cleanliness (S.1) ..   | 2   | 4        | —                 | 3                 | —  |
| Overcrowding (S.2) .. ..   | —   | —        | —                 | —                 | —  |
| Unreasonable temperature (S.3) .. .. .   | —   | —        | —                 | —                 | —  |
| Inadequate Ventilation (S.4) ..  | —   | —        | —                 | —                 | —  |
| Ineffective draining of floors (S.6) .. .. .                                   | —   | —        | —                 | —                 | —  |
| Sanitary Conveniences (S.7)  |   |          |                   |                   |  |
| (a) Insufficient .. .. .   | —   | 1        | —                 | 2                 | —  |
| (b) Unsuitable or defective  | 2   | 6        | —                 | 6                 | —  |
| (c) Not separate for sexes   | —   | 2        | —                 | 2                 | —  |
| Other offences against the Act (not including offences relating to outwork) .. | —   | —        | —                 | —                 | —  |
| Total .. .. .  | 4   | 13       | —                 | 13                | —  |

## SECTION VI

### FOOD INSPECTION AND SUPERVISION

*From information supplied by Mr. A. W. Perry,  
Chief Public Health Inspector*

#### **Food and Drugs Act, 1955**

##### **SAMPLING OF FOOD AND DRUGS**

A total of 305 samples of food and drugs were obtained during the year and submitted to the Public Analyst for chemical examination.

These included 67 samples of milk, 14 samples of ice cream and 224 samples of food and drugs.

Samples of milk 'not genuine' according to the Sale of Milk Regulations numbered 9, giving a percentage of 13·4.

All the 14 samples of ice cream were reported as satisfactory.

Of the 224 samples of other food and drugs 69 (or 31·2 per cent) were reported not genuine.

All the samples of food are examined for preservatives in accordance with the Public Health (Preservatives, etc. in Food) Regulations and for the correctness of the label under the Labelling of Food Regulations.

Details of all samples will be found on the following table.

TABLE I

| <i>Nature of Sample</i>     | <i>No. of Samples</i> |                  |              | <i>Samples adulterated or below standard</i> |                  |              |
|-----------------------------|-----------------------|------------------|--------------|--|------------------|--------------|
|                             | <i>Formal</i>         | <i>In-formal</i> | <i>Total</i> | <i>Formal</i>                                | <i>In-formal</i> | <i>Total</i> |
| Almonds, Ground .. ..       | —                     | 1                | 1            | —  | —                | —            |
| Artichoke Hearts .. ..      | —                     | 1                | 1            | —  | 1                | 1            |
| Baby Food .. .. .           | —                     | 2                | 2            | —  | 1                | 1            |
| Beans, Baked .. .. .        | —                     | 1                | 1            | —  | 1                | 1            |
| Beer .. .. .                | 4                     | —                | 4            | —  | —                | —            |
| Beetroot .. .. .            | —                     | 2                | 2            | —  | 1                | 1            |
| Bicarbonate of Soda ..      | —                     | 1                | 1            | —  | —                | —            |
| Biscuits .. .. .            | —                     | 2                | 2            | —  | 1                | 1            |
| Bread—                      |                       |                  |              |  |                  |              |
| Brown Teacake .. ..         | —                     | 1                | 1            | —  | 1                | 1            |
| Plain Teacake .. ..         | —                     | 2                | 2            | —  | 2                | 2            |
| Slimcea Loaf .. .. .        | —                     | 1                | 1            | —  | 1                | 1            |
| Thin Sliced Loaf .. .       | —                     | 1                | 1            | —  | 1                | 1            |
| Tiger Loaf .. .. .          | —                     | 1                | 1            | —  | 1                | 1            |
| White Loaf .. .. .          | —                     | 2                | 2            | —  | 2                | 2            |
| White Sliced Loaf ..        | —                     | 3                | 3            | —  | 1                | 1            |
| Wonderfruit Loaf ..         | —                     | 1                | 1            | —  | 1                | 1            |
| Butter .. .. .              | —                     | 2                | 2            | —  | 1                | 1            |
| Cheese—Various .. ..        | 1                     | 13               | 14           | —  | 3                | 3            |
| Christmas Pudding .. .      | —                     | 4                | 4            | —  | —                | —            |
| Coconut, Dessicated ..      | —                     | 1                | 1            | —  | —                | —            |
| Confectionery—              |                       |                  |              |  |                  |              |
| Apple Pie .. .. .           | —                     | 2                | 2            | —  | 2                | 2            |
| Bilberry Pie (object from)  | —                     | 1                | 1            | —  | 1                | 1            |
| Bilberry Tarts .. ..        | —                     | 1                | 1            | —  | —                | —            |
| Cake .. .. .                | —                     | 1                | 1            | —  | 1                | 1            |
| Chocolate Eclairs .. .      | —                     | 1                | 1            | —  | —                | —            |
| Fruit Malt Cake .. ..       | —                     | 1                | 1            | —  | —                | —            |
| Mini Sponge .. .. .         | —                     | 1                | 1            | —  | —                | —            |
| Piece of Cake .. .. .       | —                     | 1                | 1            | —  | 1                | 1            |
| Swiss Tart .. .. .          | —                     | 1                | 1            | —  | 1                | 1            |
| Cream—                      |                       |                  |              |  |                  |              |
| Dairy .. .. .               | —                     | 3                | 3            | —  | —                | —            |
| Double .. .. .              | —                     | 5                | 5            | —  | —                | —            |
| Fresh .. .. .               | —                     | 1                | 1            | —  | —                | —            |
| Single .. .. .              | —                     | 1                | 1            | —  | —                | —            |
| Crisps .. .. .              | —                     | 1                | 1            | —  | 1                | 1            |
| Crisps, Cheese and Onion .. | —                     | 1                | 1            | —  | 1                | 1            |
| Crystallised Fruit—         |                       |                  |              |  |                  |              |
| Cut Mixed Peel .. ..        | —                     | 3                | 3            | —  | —                | —            |
| Glace Cherries .. ..        | —                     | 3                | 3            | —  | —                | —            |
| Curry Chicken .. .. .       | —                     | 1                | 1            | —  | —                | —            |
| Curry-in-a-Hurry .. ..      | —                     | 1                | 1            | —  | —                | —            |
| Dried Fruit—                |                       |                  |              |  |                  |              |
| Currants .. .. .            | —                     | 2                | 2            | —  | —                | —            |
| Dates .. .. .               | —                     | 1                | 1            | —  | —                | —            |
| Figs .. .. .                | —                     | 1                | 1            | —  | —                | —            |
| Raisins, Stoned .. ..       | —                     | 2                | 2            | —  | —                | —            |
| Sultanas .. .. .            | —                     | 3                | 3            | —  | —                | —            |
| Fish Finger .. .. .         | —                     | 1                | 1            | —  | 1                | 1            |
| Flavouring, Rum .. ..       | —                     | 1                | 1            | —  | —                | —            |
| Flour, Self-raising .. .    | —                     | 1                | 1            | —  | —                | —            |
| Fowl, Boiling .. .. .       | —                     | 1                | 1            | —  | —                | —            |

| <i>Nature of Sample</i>     | <i>No. of Samples</i> |                  |              | <i>Samples adulterated or below standard</i> |                  |              |
|-----------------------------|-----------------------|------------------|--------------|--|------------------|--------------|
|                             | <i>Formal</i>         | <i>In-formal</i> | <i>Total</i> | <i>Formal</i>                                | <i>In-formal</i> | <i>Total</i> |
| Fruit—                      |                       |                  |              |  |                  |              |
| Filling for Tarts .. ..     | —                     | 2                | 2            | —  | —                | —            |
| Tinned .. ..                | —                     | 3                | 3            | —  | —                | —            |
| Gravy Salt .. ..            | —                     | 1                | 1            | —  | —                | —            |
| Ham Sandwich .. ..          | —                     | 1                | 1            | —  | 1                | 1            |
| Ice Cream .. ..             | —                     | 14               | 14           | —  | —                | —            |
| Jam, Seedless Raspberry ..  | —                     | 1                | 1            | —  | 1                | 1            |
| Lager .. ..                 | —                     | 1                | 1            | —  | —                | —            |
| Lard .. ..                  | —                     | 1                | 1            | —  | —                | —            |
| Lemon Juice .. ..           | —                     | 1                | 1            | —  | —                | —            |
| Marzipan .. ..              | —                     | 1                | 1            | —  | —                | —            |
| Meat Products—              |                       |                  |              |  |                  |              |
| Bacon Grill .. ..           | —                     | 1                | 1            | —  | —                | —            |
| Beefburgers without Onion   | —                     | 1                | 1            | —  | —                | —            |
| Beef Pie .. ..              | —                     | 5                | 5            | —  | —                | —            |
| Beef Spread .. ..           | —                     | 1                | 1            | —  | —                | —            |
| Chopped Ham .. ..           | —                     | 1                | 1            | —  | 1                | 1            |
| Chopped Pork .. ..          | —                     | 2                | 2            | —  | 1                | 1            |
| Corned Beef .. ..           | —                     | 3                | 3            | —  | 1                | 1            |
| Corned Mutton .. ..         | —                     | 1                | 1            | —  | —                | —            |
| Cornish Pasty .. ..         | —                     | 11               | 11           | —  | 3                | 3            |
| Irish Stew .. ..            | —                     | 2                | 2            | —  | —                | —            |
| Luncheon Meat .. ..         | —                     | 1                | 1            | —  | 1                | 1            |
| Meat Pie .. ..              | —                     | 2                | 2            | —  | 1                | 1            |
| Meat and Potato Pie .. ..   | 1                     | 6                | 7            | —  | 3                | 3            |
| Ox Tongue .. ..             | —                     | 1                | 1            | —  | 1                | 1            |
| Party Pie .. ..             | 1                     | 2                | 3            | —  | 1                | 1            |
| Pork Luncheon Meat .. ..    | —                     | 2                | 2            | —  | 1                | 1            |
| Pork Pie .. ..              | —                     | 8                | 8            | —  | —                | —            |
| Potted Meat .. ..           | —                     | 2                | 2            | —  | —                | —            |
| Sausage Roll .. ..          | —                     | 6                | 6            | —  | —                | —            |
| Steak and Kidney Pie .. ..  | —                     | 7                | 7            | —  | 2                | 2            |
| Stewed Steak .. ..          | —                     | 1                | 1            | —  | —                | —            |
| Stewed Steak with Gravy     | —                     | 1                | 1            | —  | 1                | 1            |
| Milk .. ..                  | 64                    | 3                | 67           | 9  | —                | 9            |
| Milk Bottle .. ..           | —                     | 4                | 4            | —  | 4                | 4            |
| Evaporated .. ..            | —                     | 2                | 2            | —  | —                | —            |
| Pint Bottle of .. ..        | —                     | 1                | 1            | —  | —                | —            |
| Mincemeat .. ..             | —                     | 1                | 1            | —  | —                | —            |
| Mint Flakes (dehydrated) .. | —                     | 1                | 1            | —  | —                | —            |
| Oxo .. ..                   | —                     | 1                | 1            | —  | —                | —            |
| Peas—                       |                       |                  |              |  |                  |              |
| Dried .. ..                 | —                     | 1                | 1            | —  | —                | —            |
| Tinned .. ..                | —                     | 1                | 1            | —  | —                | —            |
| Pineapple, Tinned .. ..     | —                     | 1                | 1            | —  | 1                | 1            |
| Potatoes .. ..              | —                     | 1                | 1            | —  | 1                | 1            |
| Potatoes, (creamed) .. ..   | —                     | 1                | 1            | —  | —                | —            |
| Potato Salad .. ..          | —                     | 1                | 1            | —  | 1                | 1            |
| Pudding, Mixed Fruit Sponge | —                     | 1                | 1            | —  | —                | —            |
| Rhubarb (Tinned) .. ..      | —                     | 1                | 1            | —  | —                | —            |
| Sardine and Tomato Paste .. | —                     | 1                | 1            | —  | —                | —            |
| Sauce—                      |                       |                  |              |  |                  |              |
| Cheese .. ..                | —                     | 1                | 1            | —  | —                | —            |
| Thick .. ..                 | —                     | 1                | 1            | —  | —                | —            |
| Sausages .. ..              | —                     | 2                | 2            | —  | 1                | 1            |

| <i>Nature of Sample</i>       | <i>No. of Samples</i> |                  |              | <i>Samples adulterated or below standard</i> |                  |              |
|-------------------------------|-----------------------|------------------|--------------|--|------------------|--------------|
|                               | <i>Formal</i>         | <i>In-formal</i> | <i>Total</i> | <i>Formal</i>                                | <i>In-formal</i> | <i>Total</i> |
| Soft Drinks, Various ..       | —                     | 8                | 8            | —  | —                | —            |
| Soup Mixture .. ..            | —                     | 1                | 1            | —  | —                | —            |
| Soup, Vegetable .. ..         | —                     | 1                | 1            | —  | 1                | 1            |
| Spirits— ..                   |                       |                  |              |  |                  |              |
| Brandy .. .. .                | 1                     | —                | 1            | —  | —                | —            |
| Gin .. .. .                   | 1                     | —                | 1            | —  | —                | —            |
| Rum .. .. .                   | 1                     | —                | 1            | —  | —                | —            |
| Vodka .. .. .                 | 1                     | —                | 1            | —  | —                | —            |
| Whisky .. .. .                | 4                     | —                | 4            | —  | —                | —            |
| Sponge Mixture .. ..          | —                     | 1                | 1            | —  | —                | —            |
| Sprouts .. .. .               | —                     | 1                | 1            | —  | —                | —            |
| Sugar .. .. .                 | —                     | 1                | 1            | —  | 1                | 1            |
| Tea .. .. .                   | —                     | 1                | 1            | —  | —                | —            |
| Tea Mix, Iced Lemon ..        | —                     | 1                | 1            | —  | —                | —            |
| Teething Rusks .. ..          | —                     | 1                | 1            | —  | 1                | 1            |
| Toasty Grill, Liver and Bacon | —                     | 1                | 1            | —  | —                | —            |
| Toffee, Treacle .. ..         | —                     | 1                | 1            | —  | —                | —            |
| Tomato Juice .. .. .          | —                     | 1                | 1            | —  | —                | —            |
| Tomatoes, Strained and Beef   | —                     | 1                | 1            | —  | —                | —            |
| Tomatoes—                     |                       |                  |              |  |                  |              |
| Strained and Beef ..          | —                     | 1                | 1            | —  | —                | —            |
| Tinned (Grub from) ..         | —                     | 1                | 1            | —  | 1                | 1            |
| Vegetables, Mixed .. ..       | —                     | 1                | 1            | —  | 1                | 1            |
| Total .. .. .                 | 79                    | 226              | 305          | 9  | 60               | 69           |

TABLE II

**Administrative action taken in respect of samples reported by the  
Public Analyst to be not genuine or otherwise irregular**

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i>     | <i>Administrative action taken</i>   |
|----------------------|--|--|
| 1                    | White Loaf—containing a bristle.                         | Informal sample submitted for analysis following complaint. The Public Analyst reported the sample contained a foreign object, namely a bristle, and in his opinion was unsatisfactory. The Chief Public Health Inspector drew the attention of the Baker to the matter.   |
| 2                    | Piece of cake—containing splinter of wood.               | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a splinter of wood. In his opinion the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the Bakers to the matter.   |
| 21<br>22             | Meat and Potato Pie—<br>Cornish Pasty—deficient in meat. | Two informal samples were purchased from one shop and submitted for analysis. The Public Analyst reported that sample No. 21 contained 9% of meat and No. 22 contained 8.5%. In the absence of a legal standard he was of the opinion that both the pie and pasty should contain at least 12.5% of meat. The Chief Public Health Inspector drew the attention of the baker to the matter.  |
| 26                   | Artichoke Hearts—excess of tin.                          | A routine informal sample was purchased and submitted for analysis. The Public Analyst reported that the interior of the tin was etched and that the contents contained excessive tin. The Food Standards Committee recommend that the tin content should not exceed 250 parts per million and he had found the sample to contain 500 parts per million. In his opinion the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the retailer to the matter. |
| 30                   | Tin of Corned Beef tin corroded.                         | Informal sample submitted for analysis following complaint. The Public Analyst reported that the tin was corroded and the meat stained. In his opinion the sample was unsatisfactory. This matter was reported to the Health Committee on the 2nd April, 1968 when the Town Clerk was instructed to send a letter of warning to the retailer.  |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>  |
|----------------------|--|---|
| 31                   | White Loaf—containing a metal staple.                | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign object, namely a staple and in his opinion the sample was unsatisfactory. This matter was reported to the Health Committee on the 2nd April, 1968 when legal proceedings were authorised. The case was heard on the 26th June, 1968, when a plea of 'guilty' was made and the Magistrates imposed a fine of £30 with costs of £4 14s. 0d.   |
| 35                   | Vegetable soup—contents decomposing.                 | Informal sample submitted for analysis following complaint. The Public Analyst reported that the container was leaky and the contents had decomposed. He considered the sample to be unsatisfactory. This matter was reported to the Health Committee on the 2nd April 1968 when the Town Clerk was instructed to send a letter of warning to the retailer.   |
| 48                   | Dirty Milk Bottle.                                   | Informal sample submitted for analysis following complaint. The Public Analyst reported that the bottle contained a deposit of milk solids, dust, vegetable debris and mould filaments. In his opinion the bottle was not in a state of through cleanliness. This matter was reported to the Health Committee on the 2nd April, 1968, when legal proceedings were authorised. The case was heard on the 10th July, 1968, when a plea of 'guilty' was made and the Magistrates imposed a fine of £35 with costs of £4 14s. 0d. |
| 49                   | Steak and Kidney Pie—mouldy                          | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy and unfit for human consumption. This matter was reported to the Health Committee on the 2nd April, 1968, when the Town Clerk was instructed to send a letter of warning to the retailer.  |
| 50                   | Danish Butter—containing flake of dried meat.        | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a flake of dried meat, probably bacon, which had been picked up by the butter in the shop. In his opinion the sample was irregular. The Chief Public Health Inspector drew the attention of the retailer to the matter.   |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>  |
|----------------------|--|---|
| 51                   | Teacake—contain-<br>int crumb of<br>scorched bread.  | Informal sample submitted for analysis fol-<br>lowing complaint. The Public Analyst reported<br>that the sample contained a crumb of scorched<br>bread which had been embedded in the dough.<br>The matter was harmless but he classified the<br>sample as irregular. The Chief Public Health<br>Inspector drew the attention of the Baker<br>to the matter.  |
| 52                   | Baked Beans—<br>mouldy.                              | Informal sample submitted for analysis fol-<br>lowing complaint. The Public Analyst reported<br>that the sample was mouldy because the can<br>had been pierced. It was not possible to<br>determine when the can had been punctured<br>and although the sample was unsatisfactory,<br>no further action will be taken.  |
| 53                   | Sliced White Loaf<br>—containing<br>maggot.          | Informal sample submitted for analysis fol-<br>lowing complaint. The Public Analyst reported<br>that the sample contained a live maggot. In<br>his opinion the sample was unsatisfactory.<br>The evidence was insufficient to prove where<br>the maggot came from and no further action<br>was taken.   |
| 54                   | Milk Bottle—<br>containing deposit<br>of cement.     | Informal sample submitted for analysis fol-<br>lowing complaint. The Public Analyst reported<br>that the sample contained foreign matter,<br>namely cement mortar. This matter was<br>reported to the Health Committee on the 6th<br>May, 1968, when proceedings were authorised.<br>The case was heard on the 10th July, 1968,<br>when a plea of 'guilty' was made and the<br>Magistrates imposed a fine of £50 with costs<br>of £4 14s. 0d. |
| 55                   | Meat and Potato pie<br>—containing a fly.            | Informal sample submitted for analysis fol-<br>lowing complaint. The Public Analyst reported<br>that the sample contained a foreign body,<br>namely a fly, and in his opinion the sample<br>was unsatisfactory. This matter was reported<br>to the Health Committee on the 6th May,<br>1968, when the Town Clerk was instructed to<br>send a letter of warning to the producer.   |
| 67                   | Cornish Pasty—<br>containing metal<br>turnings.      | Informal sample submitted for analysis fol-<br>lowing complaint. The Public Analyst reported<br>that the sample contained slivers of iron or<br>steel and he considered the sample to be<br>unsatisfactory. This matter was reported to<br>the Health Committee on the 6th May, 1968,<br>when the Town Clerk was instructed to send<br>a letter of warning to the baker.  |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>  |
|----------------------|--|---|
| 68                   | Steak and Kidney Pie—mouldy.                         | Informal sample submitted for analysis following complaint. The Public Analyst reported that the pie was mouldy and unfit for human consumption. The Chief Public Health Inspector drew the attention of the retailer to the matter.  |
| 70                   | Fish Finger—containing fragments of fish skin.       | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained portions of dark coloured fish skin. Although the material was harmless he considered the sample to be sub-standard. The Chief Public Health Inspector drew the attention of the retailer and manufacturers to the complaint. |
| 72                   | Cheese—partly mouldy.                                | Informal sample submitted for analysis following complaint. The Public Analyst reported that one segment of the cheese was mouldy and he considered the sample to be unsatisfactory. The Chief Public Health Inspector drew the attention of the manufacturers to the complaint.  |
| 73                   | Pineapple—containing a bee.                          | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a bee, and in his opinion was unsatisfactory. The Chief Public Health Inspector drew the attention of the manufacturer to the matter.  |
| 78                   | Milk—deficient in fat.                               | Two formal samples of milk were obtained from a producer's consignment at the pasteurising plant. The Public Analyst reported that one of the samples contained only 2.59% of fat. It was found that the average fat content of the two samples when bulked together was 3.29%. No further action was taken.                                    |
| 88                   | Sugar—containing particles of carbon.                | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained particles of carbon and although these would be harmless he classified the sample as sub-standard. The Chief Public Health Inspector drew the attention of the manufacturers to the matter.                                   |
| 98                   | Half a ham sandwich—containing discoloured dough.    | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a piece of hard dough discoloured with iron. In his opinion the dough was not harmful but the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the Baker to the matter.                     |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>  |
|----------------------|--|---|
| 99                   | Thin Sliced Loaf—containing scorched particles.      | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained dark brown pellets of scorched bread material. Although harmless he was of the opinion that the sample was sub-standard. The Chief Public Health Inspector drew the attention of the baker to the matter.   |
| 100                  | Luncheon Meat—tin perforated.                        | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy because the tin had been pierced. In his opinion it was unfit for human consumption. This matter was reported to the Health Committee on the 30th July, 1968, when the Town Clerk was instructed to send a letter of warning to the retailer.  |
| 109                  | Brown Teacake—containing blow fly.                   | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a fly and he classified the sample as unsatisfactory. The matter was reported to the Health Committee on the 30th July, 1968, when the Town Clerk was instructed to institute legal proceedings. This case was heard on the 15th October, 1968, when a plea of 'guilty' was made and the Magistrates imposed a fine of £20 with costs of £4 14s. 0d. |
| 110                  | Wonderfruit loaf—sample mouldy.                      | Informal sample submitted for analysis following complaint. The Public Analyst reported that in his opinion the sample was unfit for human consumption. This matter is still under investigation. This matter was reported to the Health Committee on the 3rd September, 1968 when the Town Clerk was instructed to send a letter of warning to the Baker.  |
| 111                  | Bilberry Pie (Object from) containing stone.         | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign object, namely a piece of silicious stone and he considered the sample to be unsatisfactory. This matter was reported to the Health Committee on the 30th July, 1968, when the Committee decided to take no further action.   |
| 112                  | Mixed Vegetables—containing part of a beetle.        | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained part of a beetle and he regarded it unsatisfactory. This matter was reported to the Health Committee on the 3rd September 1968, when the Town Clerk was instructed to send a letter of warning to the retailer.   |

TABLE 2—con inued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>   |
|----------------------|--|--|
| 117                  | Pork Luncheon Meat—tin punctured.                    | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy because the tin had been pierced. In his opinion it was unfit for consumption. This matter was reported to the Health Committee on the 30th July, 1968, when the Town Clerk was instructed to send a letter of warning to the retailer.   |
| 118                  | Slimcea Loaf—containing fragment of aluminium.       | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained fragments of aluminium and although the amount was not sufficient to be harmful he was of the opinion that the sample was unsatisfactory. This matter was reported to the Health Committee on the 5th November, 1968, when the Town Clerk was instructed to send a letter of warning to the Baker. |
| 131                  | 'Tiger' Loaf—containing earwig.                      | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a live earwig. It was not possible to determine where the insect gained access to the loaf. No further action was taken.  |
| 132                  | Stewed steak with rich gravy—tin punctured.          | Informal sample submitted for analysis following complaint. The Public Analyst reported that the canister had a faulty seam and in his opinion the contents were unfit for human consumption. This matter was reported to the Health Committee on the 3rd September, 1968, when the Town Clerk was instructed to send a letter of warning to the manufacturers.  |
| 133                  | Plain Teacake—containing flake of oven grime.        | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a flake of scorched bread stained with iron. In his opinion the sample was sub-standard. The Chief Public Health Inspector drew the attention of the baker to the matter.  |
| 134                  | Cheshire Cheese—mouldy.                              | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy. In his opinion the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the retailers to the matter.   |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>   |
|----------------------|--|--|
| 135                  | Jam Sandwich Biscuit—containing pin.                 | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a pin which had been pressed into the biscuit. He considered the sample to be unsatisfactory. This matter was reported to the Health Committee on the 5th November, 1968, when it was decided to take no further action.  |
| 147                  | Beetroot—containing a grub                           | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a grub and in his opinion was unsatisfactory. This matter was reported to the Health Committee on the 8th October, 1968, when the Town Clerk was instructed to institute legal proceedings. This case was heard on the 27th November, 1968, when a plea of 'guilty' was made. The magistrates imposed a fine of £5 0s. 0d. with costs of £4 14s. 0d. |
| 151                  | Meat Pie—mouldy.                                     | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy and unfit for human consumption. This matter was reported to the Health Committee on the 5th November, 1968, when the Town Clerk was instructed to institute legal proceedings. This case was heard on the 8th January, 1969, when a plea of 'guilty' was made. The magistrates imposed a fine of £10 with costs of £4 14s. 0d.                     |
| 162                  | Trufood—containing a fly in wrapping paper.          | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a fly in the paper of the inner bag. In his opinion the baby food was satisfactory but he classified the sample as unsatisfactory because of the presence of the fly. The Chief Public Health Inspector drew the attention of the manufacturer to the matter.   |
| 163                  | Seedless Raspberry Jam—mouldy.                       | Informal sample submitted for analysis following complaint. The Public Analyst reported that because the lid was split the sample was mouldy. This matter was reported to the Health Committee on the 8th October, 1968, when the Town Clerk was instructed to send a letter of warning to the retailer.   |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>   |
|----------------------|--|--|
| 166                  | Teething rusks—containing piece of wire.             | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a piece of wire. In his opinion the sample was unsatisfactory. This matter was reported to the Health Committee on the 5th November, 1968 when the Town Clerk was instructed to send a letter of warning to the producer.   |
| 178                  | Cake—sample mouldy.                                  | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy and in his opinion unfit for human consumption. This matter was reported to the Health Committee on the 5th November, 1968, when the Town Clerk was instructed to institute legal proceedings. This case was heard on 12th February, 1969, when a plea of 'guilty' was made. The magistrates imposed a fine of £20 with costs of £4 14s. 0d.  |
| 179                  | Sausages—containing fragments of plastic.            | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained fragments of plastic and he considered the sample to be unsatisfactory. This matter was reported to the Health Committee on the 5th November, 1968, when the Town Clerk was instructed to send a letter of warning to the producer.  |
| 180                  | Crisps—mixed with fried mushroom.                    | Informal sample submitted for analysis following complaint. The Public Analyst reported that the crisps contained pieces of fried mushroom and in his opinion the sample was irregular. The Chief Public Health Inspector drew the attention of the retailer to the matter.  |
| 181                  | Apple Pie—mouldy.                                    | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy, and in his opinion unsatisfactory. The Chief Public Health Inspector drew the attention of the baker-retailer to the matter.   |
| 182                  | Milk bottle—dirty.                                   | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained milk residues and mould filaments. In his opinion the bottle was not in a state of thorough cleanliness. This matter was reported to the Health Committee on the 26th November, 1968, when the Town Clerk was instructed to take legal proceedings. The case was heard on the 5th February 1969 when a plea of 'guilty' was made and the Magistrates imposed a fine of £75 with costs of £4 14s. 0d. |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i>   | <i>Administrative action taken</i>  |
|----------------------|--|---|
| 183                  | Chopped Ham—containing soiled lubricant.               | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained foreign matter, namely, soiled lubricant, and in his opinion the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the retailer to the matter.   |
| 192                  | Farmhouse Cheese (Stilton)—containing excess moisture. | A routine informal sample was purchased and submitted for analysis. The Public Analyst reported that he had found 47·3% of moisture in the sample. The Cheese Regulations 1965 require that Stilton Cheese should not contain more than 46% of moisture. A formal sample obtained at a later date proved to be satisfactory. No further action was taken.   |
| 197                  | Party Pie, Beef—deficient in Beef.                     | A routine informal sample was obtained and submitted for analysis. The Public Analyst reported that he had found only 0·5 ounce of meat in the sample. The Meat Pie and Sausage Roll Regulations 1967 require that a pie of this weight should contain at least 5 ounce of meat. A formal sample obtained at a later date proved to be satisfactory. No further action was taken.   |
| 207                  | Meat and Potato Pie—deficient in meat.                 | A routine informal sample was obtained and submitted for analysis. The Public Analyst reported that he had found only 9·8% of meat in the sample. The Meat Pie and Sausage Roll Regulations 1967 require that a meat and potato pie should contain at least 12·5% of meat. A formal sample obtained at a later date proved to be satisfactory.  |
| 208                  | Apple Pie—mouldy.                                      | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy and unfit for human consumption. This matter was reported to the Health Committee on the 26th November, 1968, when the Town Clerk was instructed to institute legal proceedings against the retailer. The case was heard on the 5th February, 1969 when a plea of 'guilty' was made and the Magistrates imposed a fine of £5 with costs of £4 14s. 0d. |

TABLE 2—continued

| <i>No. of Sample</i>                                 | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>  |
|--|--|---|
| 210  | Milk bottle—dirty                                    | Informal sample submitted for analysis following complaint. The Public Analyst reported that the bottle contained milk residues. In his opinion the bottle was not in a state of thorough cleanliness. This matter was reported to the Health Committee on the 26th November, 1968, when the Town Clerk was instructed to take legal proceedings. The case was heard on the 5th February, 1969, when a plea of 'guilty' was made and the Magistrates imposed a fine of £75 with costs of £4 14s. 0d.  |
| 211  | Danish Ox Tongue—tainted.                            | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was 'tainted' but not decomposing and he considered the sample to be unsatisfactory. The Chief Public Health Inspector drew the attention of the retailer to the matter.  |
| 212  | Swiss Tart—contains rodent droppings.                | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained foreign objects, namely rodent droppings. In his opinion the sample was unsatisfactory. This matter was reported to the Health Committee on the 26th November, 1968, when the Town Clerk was instructed to send a letter of warning to the baker/retailer.  |
| 213<br>215<br>218<br>219<br>220<br>221<br>222<br>223 | Milk containing added water and also fat deficiency. | Thirteen formal samples of milk were obtained from a producer's consignment at a pasteurising plant. The Public Analyst reported that with the exception of No. 221 the samples contained 2.4, 3.2, 3.7, 1.2, 2.0, 4.9 and 8.1 per cent extraneous water, respectively. In addition, samples Nos. 220 and 221 were 14.3 and 11.0 per cent deficient in fat respectively, but when bulked together the average fat content of the thirteen samples was a satisfactory 3.57 per cent. The matter of the extraneous water was reported to Committee on the 5th November, 1969, when the Town Clerk was instructed to institute legal proceedings. The case was heard on the 15th January, 1969, when a plea of 'guilty' was made and the Magistrates imposed a fine of £7 with costs of £14 10s. 6d. |
| 228  | Potatoes—unsound.                                    | Informal sample submitted for analysis following complaint. The Public Analyst reported that several of the potatoes were unsound and in his opinion the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the retailer to the matter.   |

TABLE 2—continued

| <i>No. of Sample</i> | <i>Nature of Sample and Result of Analysis, etc.</i> | <i>Administrative action taken</i>  |
|----------------------|--|---|
| 229                  | Chopped Pork—<br>tin corroded.                       | Informal sample submitted for analysis following complaint. The Public Analyst reported that the meat was affected with stains from the tin and in his opinion the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the retailer to the matter.   |
| 233                  | Cornish Pasty—<br>containing drawing pin.            | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a drawing pin. He considered the sample to be unsatisfactory. This matter was reported to the Health Committee on the 7th January, 1969, when the Town Clerk was instructed to send a letter of warning to the producer. |
| 253                  | Cheese and Onion<br>Crisps—mouldy.                   | Informal sample submitted for analysis following complaint. The Public Analyst reported that the crisps were mouldy, damp and unfit for human consumption. The Chief Public Health Inspector drew the attention of the retailer to the matter.  |
| 255                  | Potato Salad<br>mouldy.                              | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample was mouldy and unfit for human consumption. The Chief Public Health Inspector drew the attention of the retailer to the matter.   |
| 303                  | Peeled Plum<br>Tomatoes—<br>moth grub in tin.        | Informal sample submitted for analysis following complaint. The Public Analyst reported that the sample contained a foreign body, namely a moth grub. In his opinion the sample was unsatisfactory. The Chief Public Health Inspector drew the attention of the importer to the matter.   |

TABLE 3

## Monthly Average Composition of Milk Samples

| Month                 | No. of Samples | Milk Fat per cent. | Non-Fatty Solids per cent. | Channel Islands and South Devon Milk |                    |                            |
|-----------------------|----------------|--------------------|----------------------------|--------------------------------------|--------------------|----------------------------|
|                       |                |                    |                            | No. of Samples                       | Milk Fat per cent. | Non-Fatty Solids per cent. |
| January ..            | —              | —                  | —                          | —                                    | —                  | —                          |
| February ..           | —              | —                  | —                          | —                                    | —                  | —                          |
| March ..              | 11             | 3.52               | 8.50                       | —                                    | —                  | —                          |
| April ..              | —              | —                  | —                          | —                                    | —                  | —                          |
| May ..                | 18             | 3.56               | 8.81                       | —                                    | —                  | —                          |
| June ..               | —              | —                  | —                          | —                                    | —                  | —                          |
| July ..               | 10             | 3.59               | 8.53                       | —                                    | —                  | —                          |
| August ..             | 10             | 4.00               | 8.94                       | —                                    | —                  | —                          |
| September             | 4              | 3.28               | 9.00                       | —                                    | —                  | —                          |
| October ..            | 13             | 3.58               | 8.32                       | —                                    | —                  | —                          |
| November              | —              | —                  | —                          | —                                    | —                  | —                          |
| December              | 1              | 3.65               | 8.75                       | —                                    | —                  | —                          |
| Total ..              | 67             |                    |                            | —                                    |                    |                            |
| Average for year 1968 |                | 3.58               | 8.60                       |                                      | —                  | —                          |
| " " " 1967            |                | 3.69               | 8.65                       |                                      | 4.35               | 9.10                       |
| " " " 1966            |                | 3.79               | 8.77                       |                                      | 5.08               | 9.49                       |
| " " " 1965            |                | 3.76               | 8.76                       |                                      | 4.93               | 9.40                       |
| " " " 1964            |                | 3.68               | 8.64                       |                                      | —                  | —                          |
| " " " 1963            |                | 3.60               | 8.75                       |                                      | 4.32               | 8.98                       |
| " " " 1962            |                | 3.67               | 8.84                       |                                      | 4.74               | 9.23                       |
| " " " 1961            |                | 3.73               | 8.84                       |                                      | 4.91               | 9.30                       |
| " " " 1960            |                | 3.80               | 8.90                       |                                      | 5.34               | 9.14                       |
| " " " 1959            |                | 3.72               | 8.68                       |                                      | 4.85               | 9.10                       |
| " " " 1958            |                | 3.73               | 8.69                       |                                      | 5.21               | 9.32                       |

The figures given in the third and fourth columns of the above table represent the average milk fat and non-fatty solids in the 67 chemical milk samples of Untreated (Farm Produced) and Pasteurised milk taken during the year. The presumptive standards are 3.0 per cent and 8.5 per cent, respectively, as laid down by the Sale of Milk Regulations, 1939.

## Milk and Dairies

*Milk and Dairies (General) Regulations, 1959.*

*Milk (Special Designation) Regulations, 1963.*

*Milk (Special Designation) (Amendment) Regulations, 1965.*

### MILK DISTRIBUTION

At the end of the year there were 281 registered distributors of milk (excluding dairy farmers) within the Borough, and there were 5 registered dairy premises.

Dealers (Pre-Packed Milk) Licences are now issued for a period expiring 31st December 1970.

### BACTERIOLOGICAL EXAMINATION OF MILK

During the year 55 samples of milk—as shown below—were submitted to bacteriological examination.

| Designation         | Samples taken | Satisfactory | Unsatisfactory |
|---------------------|---------------|--------------|----------------|
| Pasteurised .. .. . | 50            | 50           | —              |
| Sterilised .. .. .  | 4             | 4            | —              |
| Untreated .. .. .   | 1             | 1            | —              |
| TOTAL .. .. .       | 55            | 55           | —              |

### BIOLOGICAL EXAMINATION OF MILK

There were no samples obtained for biological examination. Samples of milk obtained for Brucellosis are examined bacteriologically.

### BRUCELLA ABORTUS

Particulars are given, in the following table, of the 108 samples submitted to the Public Health Laboratory Service for examination for *Brucella abortus*:

| Produced                   | No. of samples | Satisfactory | Positive on culture |
|----------------------------|----------------|--------------|---------------------|
| In Borough .. .. .         | 99             | 98           | 1                   |
| Outside of Borough .. .. . | 9              | 9            | —                   |
| TOTAL .. .. .              | 108            | 107          | 1                   |

Routine samples were taken from retailer producers either by special visits to farms or by street sampling.

There was one 'positive' cow found by this routine work and the animal was eventually slaughtered.

#### THE LIQUID EGG (PASTEURISATION) REGULATIONS, 1962

There are no pasteurisation plants in the town. No samples of liquid egg were therefore taken.

#### MANUFACTURE AND/OR SALE OF ICE CREAM

*Food and Drugs Act, 1955, Section 16.*

*Ice Cream (Heat Treatment, etc.) Regulations, 1959.*

Ice cream, like milk, is a food which is easily contaminated, and there are Regulations which require the ice cream mix to be heated to a specific temperature for a given time. In other words, it has to be pasteurised so that harmful bacteria may be killed or be prevented from multiplying. The heated mix must then be cooled to a certain temperature, and during storage must be kept below regulation temperatures. Apart from these safeguards, it is necessary for a high standard of cleanliness to be maintained throughout the whole process, and experience has shown that this can only be achieved by systematic and regular cleansing of all machines, pipe-lines, valves, etc.

Apart from visual inspection and microscopical examination, it is possible to use the bacteriological examination of ice cream to indicate its cleanliness and purity.

During the year 53 inspections were made of 342 registered premises (all retailers).

A total of 40 samples was submitted to bacteriological examination by the Methylene blue reduction test, particulars of which are given in the following Table:—

| Produced              | No. of Samples | Grade 1<br>Highly<br>Satisfactory | Grade 2<br>Satisfactory | Grade 3<br>Unsat'factory | Grade 4<br>Very<br>Unsatisfactory |
|-----------------------|----------------|-----------------------------------|-------------------------|--------------------------|-----------------------------------|
| In Borough            | —              | —                                 | —                       | —                        | —                                 |
| Outside of<br>Borough | 40             | 16(40.00%)                        | 17(42.50%)              | 6 (15.00%)               | 1 (2.50%)                         |
| TOTAL                 | 40             | 16(40.00%)                        | 17(42.50%)              | 6 (15.00%)               | 1 (2.50%)                         |

The unsatisfactory samples were taken from premises where there have been frequent changes in management. Advice has been given and check samples are being taken monthly.

I am pleased to be able to report that all mobile vans selling ice cream in this Borough are so constructed as to comply with The Food Hygiene (Markets, Stalls and Delivery Vehicles) Regulations, 1966, being equipped with means for providing hot water and washing of hands. Soap and towels are provided and, in addition, sterilising agents are available for the treatment of servers. 12 vans, etc., were inspected by the department, prior to the granting of Street Traders' Licences by the Markets Department.

#### PREPARATION OR MANUFACTURE OF SAUSAGES, ETC.

*Food and Drugs Act, 1955. Section 16.*

At the end of the year there were 34 premises registered for the preparation or manufacture of sausages, potted, pressed, pickled or preserved foods.

#### FRIED FISH SHOPS

During the year 14 inspections were made of 52 premises. Improvements were effected in 2 cases.

#### BAKEHOUSES

The number of bakehouses on the register at the end of the year was 23.

There were 31 inspections made, and improvements were effected in 8 cases.

#### FOOD HYGIENE

During the year 63 mobile food shops and vans (including ice cream vans already remarked upon) have been inspected prior to a licence being issued by the Markets Department. I am pleased to say that all the owners of these mobile shops have co-operated wholeheartedly in attaining the high standard required by the Food Hygiene (Markets, Stalls and Delivery Vehicles) Regulations 1966.

There are 979 food premises in the Borough divided into the following categories. Information about their compliance with regulations 16 and 19 is also appended.

Visits to food premises, including any necessary re-visits numbered 638.

136 contraventions of the regulations were found which were remedied by formal or informal request as given in the statistical report of work done.

| Category                  | No. of Premises | No. of Premises Fitted to comply with Reg. 16 (Wash Hand Basins) | No. of Premises to which Reg. 19 applies (Facilities for Washing Food and equipment) | No. of Premises Fitted to comply with Reg. 19 |
|---------------------------|-----------------|--|--|---|
| Bakehouses                | 23              | 23   | 23   | 23  |
| Butchers                  | 105             | 87   | 105  | 104   |
| Fish and Chips            | 52              | 41   | 52   | 52  |
| Restaurants               | 48              | 46   | 48   | 48  |
| News, Sweets, Tobacco     | 115             | 95   | 103  | 103   |
| Licensed Premises         | 148             | 148  | 148  | 148   |
| Grocers and Confectioners | 348             | 283  | 336  | 332   |
| Canteens                  | 40              | 40   | 40   | 40  |
| Fish and Fruit            | 94              | 61   | 94   | 93  |
| Food Manufacturers        | 4               | 4  | 4  | 4   |
| Food Warehouses           | 2               | 2  | 2  | 2   |
| TOTAL                     | 979             | 830  | 955  | 949   |

### Meat and Food Inspections

During the year, the Slaughterhouse (Hygiene) (Amendment) Regulations 1966 came into operation, whereby the use of wiping cloths on carcasses was prohibited. Water spray guns with hot and cold mixers have been provided at each slaughtering point for sheep, cattle and calves, and since November 1st the sprays have been in use. Despite forecasts to the contrary there has been no apparent deterioration of the meat; in fact some butchers believe that the keeping property has increased. Some butchers have used paper towels to remove surplus water after spraying; others have not found this necessary being satisfied that dripping and evaporation will do this equally satisfactorily. The custom of 'netting' sheep has caused the greatest difficulty (i.e. placing the omentum fat around each hind leg). The fat will not stick if the leg becomes too dry or if the fat becomes too hard, thus ruling out a suggestion that legs should be 'netted' after the spray water has dried off. Some butchers immediately dry the legs with paper towels and then fix the fat, others don't bother. Customs die hard in the butchering trade and the custom of 'netting' sheep for the moment is being kept alive. It is at best a method of high-priced leg decoration and at worst

a potential source of gross contamination and could well have been prohibited by the regulations. Imported New Zealand lamb is not so treated for obvious reasons.

The system of slaughtering sheep which has been in operation since the abattoir was opened in 1926 is due for improvement. It has always been difficult for slaughtermen to comply with the cruelty provisions of the Slaughter of Animals Act and the method of bleeding animals into trays on the floor where slaughtermen have to work is both dangerous and unhygienic. In addition the method entails lifting the live animal once and the carcass twice from one position to another, an unnecessary physical hardship on the sheep slaughtermen. A modern line system for sheep including a hoisting rail and bleeding pit could be provided at reasonable cost and is being considered.

The number of known poultry processing premises at the end of the year has increased to four, and supervision of these will inevitably occupy more of the food inspectors' time. Because of the numbers dealt with (over 2 million), the detailed inspection of individual carcasses by qualified inspectors is impossible but with the help and goodwill of the traders it is possible to maintain a fair degree of control. The time has surely arrived, however, when registration of all establishments where poultry are slaughtered is made compulsory otherwise the size of the poultry inspection problem is unknown. The amount of poultry meat produced in the Borough is now almost equal to the amount of butchers' meat produced at the abattoir. From the condemnation figures it will be seen that the weight of poultry condemned exceeded the total amount of all other foods including meat and offal, condemned during the year.

In addition to suffering from E.Coli infection, chronic respiratory disease, coccidiosis etc., an increasing number of broilers were found to be affected with Mareks disease (fowl paralysis), the lesions on the skin and in the ovary and testicle (tumours) becoming apparent and often severe at the age of 9-10 weeks, at which broilers are usually slaughtered. In birds from sources where a previous history of Mareks disease was known, killed 10-14 days earlier, the number affected was almost nil, but obviously this is no solution to the problem, the birds being on the small side and the profit margin eliminated.

Unless Mareks free strains of broilers can be evolved and soon, this disease must affect the broiler industry to such an extent as to be almost fatal.

#### POULTRY INSPECTION

There are four poultry processing premises within the district. The number of visits to these premises during 1968 numbered 508 and the total number of birds processed during the year was 2,056,087, of which 33,000 were condemned (or 82,500 lbs.). The percentage of birds rejected as unfit for human consumption was 1.65. The types of birds processed were broilers, hens and guinea fowl.

# CARCASES INSPECTED AND CONDEMNED

The following table shows the number of animals slaughtered during the year and the number condemned:—

|   | Public Abattoir         |       |        |                       |        |        |
|---|-------------------------|-------|--------|-----------------------|--------|--------|
|   | Cattle<br>excl.<br>Cows | Cows  | Calves | Sheep<br>and<br>Lambs | Pigs   | Horses |
| Number killed .. .. .   | 8,620                   | 1,960 | 553    | 42,435                | 10,864 | —      |
| Number inspected .. .. .  | 8,620                   | 1,960 | 553    | 42,435                | 10,864 | —      |
| ALL DISEASES EXCEPT T.B. AND<br>CYSTICERCI  |                         |       |        |                       |        |        |
| Whole carcasses Condemned ..  | 1                       | 4     | 4      | 42                    | 23     | —      |
| Carcases of which some part or or-<br>gan was condemned .. .. .                             | 874                     | 581   | 1      | 5,205                 | 567    | —      |
| Percentage of the No. inspected with<br>disease other than T.B. and Cysti-<br>cerci .. .. . | 10·1                    | 29·6  | 1·0    | 12·3                  | 5·4    | —      |
| TUBERCULOSIS ONLY   |                         |       |        |                       |        |        |
| Whole carcasses condemned ..  | —                       | —     | —      | —                     | —      | —      |
| Carcases of which some part or<br>organ was condemned .. .. .                               | —                       | —     | —      | —                     | —      | —      |
| Percentage of the No. inspected af-<br>fected with Tuberculosis ..                          | —                       | —     | —      | —                     | —      | —      |
| CYSTICERCOSIS   |                         |       |        |                       |        |        |
| Carcases of which some part or or-<br>gan was condemned .. .. .                             | —                       | —     | —      | —                     | —      | —      |
| Carcases submitted to treated by<br>refrigeration .. .. .                                   | —                       | —     | —      | —                     | —      | —      |
| Generalised and totally condemned   | —                       | —     | —      | —                     | —      | —      |

The following table shows the total approximate weight of meat and offals, destroyed on account of tuberculosis, and from other causes:—

|   | lbs.   |
|---|--------|
| Total amount of Meat destroyed .. .. .                      | 7,665  |
| Total amount of Offals destroyed .. .. .                    | 33,310 |
| Total amount of Meat destroyed on account of Tuberculosis   | —      |
| Total amount of Offals destroyed on account of Tuberculosis | —      |
| Total amount of Meat destroyed from other causes .. .. .    | 7,665  |
| Total amount of Offals destroyed from other causes .. .. .  | 33,310 |
| Total Meat and Offals destroyed .. .. .                     | 40,975 |

The following Table shows the amount of foods condemned:—

| Food Condemned           |    |    |    |    |    | Quantity in<br>lbs. |
|--------------------------|----|----|----|----|----|---------------------|
| 5 Carcases of Beef       | .. | .. | .. | .. | .. | 2,130               |
| Beef not in Carcase      | .. | .. | .. | .. | .. | 694                 |
| 4 Carcases of Veal       | .. | .. | .. | .. | .. | 145                 |
| 42 Carcases of Mutton    | .. | .. | .. | .. | .. | 1,237               |
| 23 Carcases of Pork      | .. | .. | .. | .. | .. | 2,450               |
| Pork not in Carcase      | .. | .. | .. | .. | .. | 1,009               |
| Offals .. ..             | .. | .. | .. | .. | .. | 33,310              |
| Poultry .. ..            | .. | .. | .. | .. | .. | 82,500              |
| Canned Foods ..          | .. | .. | .. | .. | .. | 5,570               |
| Frozen Foods ..          | .. | .. | .. | .. | .. | 960                 |
| Fish .. ..               | .. | .. | .. | .. | .. | 252                 |
| Fruit .. ..              | .. | .. | .. | .. | .. | 3,548               |
| Imported Meat and Offals | .. | .. | .. | .. | .. | 160                 |
| Vegetables.. ..          | .. | .. | .. | .. | .. | 1,663               |
| Other Foods ..           | .. | .. | .. | .. | .. | 1,508               |
| Fire-damaged Food        | .. | .. | .. | .. | .. | —                   |
| Flood-damaged Food       | .. | .. | .. | .. | .. | —                   |
| Total Weight.. ..        |    |    |    |    |    | 137,136             |

#### DISPOSAL OF CONDEMNED FOOD

Diseased carcase meat and offal are disposed of to a firm at Thornton, where it is sterilised before manufacture into fertiliser. The plant is subject to inspection by the public health inspector of the district, whose report is satisfactory. The condemned meat is transported in vehicles complying with the Meat (Staining and Sterilization) Regulations, 1960.

Condemned poultry is, after staining, disposed of for mink feeding.

All other condemned food is disposed of by controlled tipping on the Corporation tips.

## PROSECUTIONS DURING 1968

| <i>Date of Hearing</i> | <i>Act</i>   | <i>Offence</i>   | <i>Penalty</i>  |
|------------------------|--|--|---|
| 21.2.68                | Food and Drugs Act, 1955, Section 2.   | Selling a tin of Corned Beef not of the substance demanded (two offences)                      | Defendants fined £20 in each case with £7 16s. 0d. costs. |
| 1.5.68                 | Food and Drugs Act, 1955, Section 2.   | Selling a Bilberry and Artificial Cream Pie not of the substance demanded.                     | Defendants fined £25 with £3 18s. 0d. costs.              |
| 1.5.68                 | Food and Drugs Act, 1955, Section 2.   | Selling a Date and Walnut Cake not of the substance demanded.                                  | Defendants fined £25 with £3 18s. 0d. costs.              |
| 26.6.68                | Food and Drugs Act, 1955, Section 2.   | Selling a large loaf not of the substance demanded.  | Defendants fined £30 with £4 14s. 0d. costs.              |
| 10.7.68                | Milk and Dairies (General) Regulations, 1959, Section 27(1).                       | Failing to ensure a milk bottle immediately before use was in a state of thorough cleanliness. | Defendants fined £35 with £4 14s. 0d. costs.              |
| 10.7.68                | Milk and Dairies (General) Regulations, 1959, Section 27(1).                       | Failing to ensure a milk bottle immediately before use was in a state of thorough cleanliness. | Defendants fined £50 with £4 14s. 0d. costs.              |
| 6.8.68                 | Clean Air Act, 1956 Section 1(1) Dark Smoke (Permitted Periods) Regulations, 1958. | Emitting dark smoke from a chimney contrary to the Act.  | Defendants fined £15.                                     |
| 25.9.68                | Clean Air Act, 1956, Section 11(2).  | Emitting smoke from a chimney of a building within a Smoke Control Area.                       | Defendants fined £5.                                      |
| 15.10.68               | Food and Drugs Act, 1955, Section 2.   | Selling a brown tea-cake not of the substance demanded.  | Defendants fined £20 with £4 14s. 0d. costs.              |
| 26.11.68               | Food and Drugs Act, 1955, Section 2.   | Selling pickled beet-root not of the substance demanded.                                       | Defendants fined £5 with £4 14s. 0d. costs.               |

### CLEAN AIR AND CLIMATE

#### Smoke Control Areas

*Information supplied by Mr. A. W. Perry,  
Chief Public Health Inspector*

The atmospheric pollution gauge in Powell Street shows that the improvement in atmospheric conditions in the town centre is being maintained, there being a reduction of 72% in smoke and 47% in sulphur dioxide as compared with the winter months in 1959 prior to smoke control. (See graph on page 174).

The Halifax No. 14 (King Cross and West End) Smoke Control Order became operative on the 1st day of June 1968. The Halifax No. 15 (Haugh Shaw Road and Arden Road) Smoke Control Order was confirmed without modification by the Minister of Housing and Local Government on the 29th August, 1968. This Order will come into operation on the 1st day of June 1969.

The survey of the No. 16 (Holdsworth, Shay Lane and Ovenden) Smoke Control Area was carried out. This area is bounded on the north by fields 4978, 5078, 5082, 5087 and 5088, to the Borough Boundary; on the west by the road adjoining fields 4878, 4980, 4981 and 4982, Riley Lane, Moor Bottom Road, Highlands Lane, Whitehill Road, fields 4439, 3476, part 3478, part 3477, part 3478, 3472, 3450, to Keighley Road; the disused railway cutting and adjacent to fields 2881, 2986, 2989, 2990, to Foundry Street North, Shay Lane, Sod House Green, Nursery Lane; on the south by Ovenden Way, Broad Tree Road, Mill Lane and Ploughcroft Lane; on the East by Swalesmoor Road and the Borough Boundary. It is proposed that the Smoke Control Order affecting this Area shall come into operation on the 1st day of June, 1970.

50% of the houses in Halifax are now subject to smoke control requirements at December 1968 as follows:

| No.   | Area                         | Operative date | Dwelling houses | Commercial Buildings | Industrial Buildings | Other Buildings | Acres    |
|-------|------------------------------|----------------|-----------------|----------------------|----------------------|-----------------|----------|
| 1     | Town Centre                  | 1.10.59        | 95              | 528                  | 24                   | 9               | 29.7     |
| 2     | Mixenden                     | 1.9.61         | 1,189           | 57                   | 5                    | 35              | 365      |
| 3     | Norton Tower                 | 1.6.61         | —               | —                    | —                    | —               | 24.31    |
| 4     | Savile Park/Skircoat         | 1.8.62         | 1,811           | 182                  | 30                   | 77              | 320      |
| 5     | Wheatley                     | 1.12.61        | 206             | 7                    | 4                    | 8               | 136      |
| 6     | Salterhebble/Scarr Bottom    | 1.7.63         | 1,493           | 34                   | 13                   | 31              | 475      |
| 7     | Illingworth/Cousin Lane West | 1.12.63        | 1,848           | 29                   | 5                    | 23              | 385      |
| 8     | Cousin Lane East             | 1.7.65         | 381             | 2                    | —                    | 1               | 38       |
| 9     | Pye Nest/Rochdale Road       | 1.7.65         | 1,036           | 21                   | 4                    | 15              | 152      |
| 10    | Riley Lane                   | 1.7.65         | 5               | 1                    | —                    | —               | 18.175   |
| 11    | Highroad Well                | 1.12.65        | 1,733           | 36                   | 9                    | 17              | 339      |
| 12    | Copley                       | 1.10.67        | 192             | 5                    | 9                    | 3               | 88       |
| 13    | Waltroyd/Ovenden Way         | 1.6.67         | 1,561           | 62                   | 9                    | 14              | 244      |
| 14    | King Cross West End          | 1.6.68         | 1,554           | 86                   | 25                   | 5               | 83       |
| TOTAL |                              |                | 13,104          | 1,050                | 137                  | 238             | 2697.185 |

During the year 15 dwelling houses have been visited and the occupants cautioned regarding the emission of smoke in a Smoke Control Area.

Proceedings were instituted against the occupants of one of these houses. The Magistrates found the case proved and imposed a fine of £5.

Grants paid in respect of adaptations in dwelling houses amounted to £27,213 allocated as under:—

|  | £      | s. | d. |
|--|--------|----|----|
| No. 8 (Cousin Lane East) Smoke Control Area                | 3,891  | 18 | 6  |
| No. 9 (Pye Nest and Rochdale Road) Smoke Control Area      | 2,398  | 14 | 8  |
| No. 11 (Highroad Well) Smoke Control Area                  | 943    | 0  | 3  |
| No. 12 (Copley) Smoke Control Area                         | 717    | 18 | 2  |
| No. 13 (Waltroyd and Ovenden Way) Smoke Control Area       | 560    | 15 | 5  |
| No. 14 (King Cross and West End) Smoke Control Area        | 15,968 | 12 | 7  |
| No. 15 (Haugh Shaw Road and Arden Road) Smoke Control Area | 2,732  | 19 | 2  |
|  | 27,213 | 18 | 9  |

## INDUSTRIAL SMOKE

The number of smoke observations made during the year was 546.

There were 50 visits to works in connection with smoke emissions and improvements were carried out to boiler plants in 3 instances.

One application was received requesting prior approval of a new boiler plant. The application was not approved, the flue arrangements being considered unsatisfactory. These arrangements were subsequently modified and the completed installation is considered to be satisfactory.

43 deposited plans were inspected and in 8 cases extension to the proposed chimney height was requested.

Proceedings were instituted against the occupier of a mill for emitting dark smoke from the boiler chimney contrary to Section I of the Clean Air Act, 1956. On hearing the facts the Magistrates imposed a fine of £15.

Amended proposals for calculating chimney heights were brought into use during the year and new proposals for the control of grit and dust were formulated. The Working Party report on Cold Blast Cupolas was published and is being put into effect.

## PUBLICITY

During the year the Solid Smokeless Fuels Federation's mobile exhibition unit made two visits to the Borough, each of one week's duration. The areas visited were those where adaptations were then taking place and much useful information was available to householders in the area.

**TABLE I**  
**DEPOSITED ATMOSPHERIC POLLUTION, 1968**  
(Tons per square mile)

|           | BELLE VUE PARK<br>( $\frac{1}{2}$ mile West) |                     |                   |                 | INFIRMARY<br>( $\frac{1}{2}$ mile South) |                     |                   |                 | WEST VIEW PARK<br>( $1\frac{1}{2}$ miles West) |                     |                   |                 |
|-----------|--|---------------------|-------------------|-----------------|--|---------------------|-------------------|-----------------|--|---------------------|-------------------|-----------------|
|           | Rainfall<br>in inches                        | Insoluble<br>Solids | Soluble<br>Solids | Total<br>Solids | Rainfall<br>in inches                    | Insoluble<br>Solids | Soluble<br>Solids | Total<br>Solids | Rainfall<br>in inches                          | Insoluble<br>Solids | Soluble<br>Solids | Total<br>Solids |
| January   | 2.96   | 3.65                | 6.58              | 10.23           | 2.80                                     | 3.35                | 4.20              | 7.55            | 2.92   | 2.81                | 3.72              | 6.53            |
| February  | 1.93   | 4.10                | 3.98              | 8.08            | 1.62                                     | 3.88                | 3.40              | 7.28            | 1.85   | 4.76                | 4.99              | 9.75            |
| March     | 5.76   | 5.82                | 9.83              | 15.65           | 5.13                                     | 4.44                | 7.53              | 11.97           | *  | *                   | *                 | *               |
| April     | 2.40   | 5.47                | 5.83              | 11.30           | 2.44                                     | 6.70                | 6.87              | 13.57           | 2.56   | 9.21                | 6.13              | 15.34           |
| May       | 4.65   | 5.27                | 7.75              | 13.02           | 4.03                                     | 5.58                | 8.99              | 14.57           | 5.89   | 8.06                | 14.88             | 22.94           |
| June      | 3.30   | 6.30                | 6.00              | 12.30           | *  | *                   | *                 | *               | 3.60   | 6.90                | 5.40              | 12.30           |
| July      | *  | *                   | *                 | *               | *  | *                   | *                 | *               | 3.41   | 8.37                | 5.58              | 13.95           |
| August    | 2.79   | 5.89                | 5.58              | 11.47           | 2.48                                     | 4.03                | 2.79              | 6.82            | 1.86   | 4.34                | 2.48              | 6.82            |
| September | 7.50   | 5.40                | 15.00             | 20.40           | 7.50                                     | 3.90                | 8.70              | 12.60           | 6.90   | 12.00               | 8.40              | 20.40           |
| October   | *  | *                   | *                 | *               | 3.72                                     | 4.03                | 4.34              | 8.37            | *  | *                   | *                 | *               |
| November  | 3.90   | 5.40                | 5.40              | 10.80           | 3.60                                     | 4.80                | 5.70              | 10.50           | 4.20   | 6.00                | 6.30              | 12.30           |
| December  | 1.86   | 6.51                | 5.58              | 12.09           | 1.86                                     | 5.58                | 4.34              | 9.92            | 1.86   | 5.89                | 4.96              | 10.85           |
| Aggregate | 37.05  | 53.81               | 71.53             | 125.34          | 35.18                                    | 46.29               | 56.86             | 103.15          | 35.05  | 68.34               | 62.84             | 131.18          |
| Averages  | 3.71   | 5.38                | 7.15              | 12.53           | 3.51                                     | 4.63                | 5.69              | 10.32           | 3.51   | 6.83                | 6.28              | 13.11           |

\* Records spoilt by unlawful interference with gauge

Monthly Average for Borough:—

|                    |                           |
|--------------------|---------------------------|
| Insoluble Solids   | 5.61 tons per square mile |
| Soluble Solids     | 6.37 " " "                |
| Total Solids       | 11.98 " " "               |
| Rainfall in inches | 3.58                      |

Total Annual Deposit for Whole Borough: 143.86 tons per square mile.

**Total Annual Deposit for the whole Borough for  
the past ten years**

|       |    |    |    |    |    | Tons per sq.<br>mile | Inches of<br>Rainfall |
|-------|----|----|----|----|----|----------------------|-----------------------|
| 1968  | .. | .. | .. | .. | .. | 143.86               | 3.58                  |
| 1967  | .. | .. | .. | .. | .. | 130.41               | 3.29                  |
| 1966  | .. | .. | .. | .. | .. | 144.09               | 3.62                  |
| 1965  | .. | .. | .. | .. | .. | 148.21               | 3.26                  |
| 1964  | .. | .. | .. | .. | .. | 129.10               | 2.45                  |
| 1963  | .. | .. | .. | .. | .. | 138.89               | 2.35                  |
| 1962  | .. | .. | .. | .. | .. | 154.80               | 2.55                  |
| 1961  | .. | .. | .. | .. | .. | 174.00               | 2.94                  |
| 1960  | .. | .. | .. | .. | .. | 172.28               | 3.42                  |
| 1959  | .. | .. | .. | .. | .. | 159.84               | 2.25                  |
| (1947 | .. | .. | .. | .. | .. | 241.91               | 2.67)                 |

Note: (1) The 1967 figure is based on information obtained from the gauges at Belle Vue Park and the Infirmary only.

(2) The Akroyd Park gauge was withdrawn in 1967.

**Total Daily Averages of Sulphur Pollution—Lead Peroxide  
Method for the whole of Borough for the past ten years.**

|       |    |    |    |    |    | Milligrams of SO <sup>3</sup> per 100<br>square centimetres |
|-------|----|----|----|----|----|---|
| 1968  | .. | .. | .. | .. | .. | 1.91  |
| 1967  | .. | .. | .. | .. | .. | 2.05  |
| 1966  | .. | .. | .. | .. | .. | 2.22  |
| 1965  | .. | .. | .. | .. | .. | 2.14  |
| 1964  | .. | .. | .. | .. | .. | 2.38  |
| 1963  | .. | .. | .. | .. | .. | 2.50  |
| 1962  | .. | .. | .. | .. | .. | 2.36  |
| 1961  | .. | .. | .. | .. | .. | 2.46  |
| 1960  | .. | .. | .. | .. | .. | 2.20  |
| 1959  | .. | .. | .. | .. | .. | 2.34  |
| (1947 | .. | .. | .. | .. | .. | 2.75)   |

TABLE 2  
SULPHUR POLLUTION—LEAD PEROXIDE METHOD, 1968

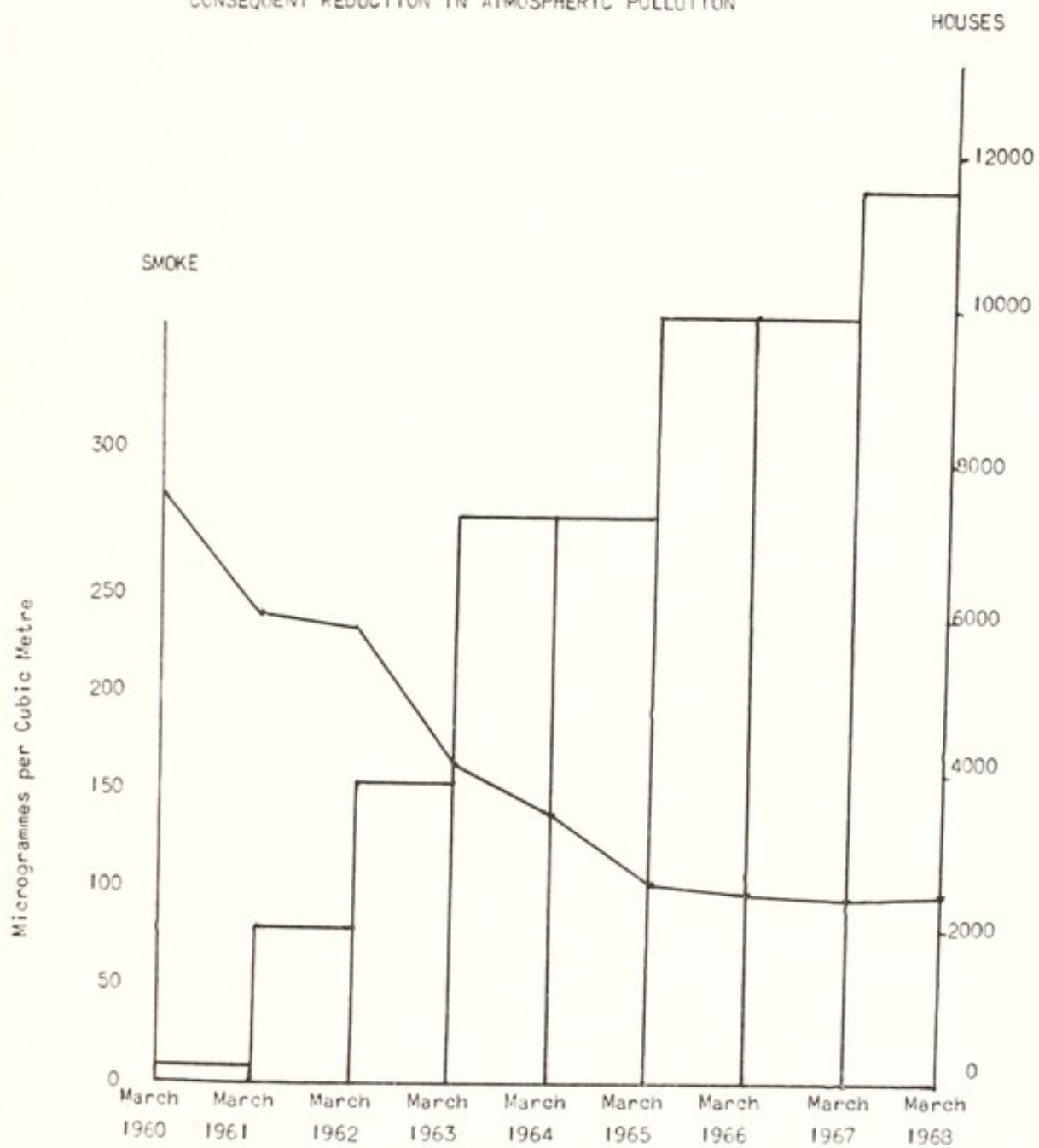
| STATION              | MILLIGRAMS OF SO <sub>3</sub> PER 100 SQUARE CENTIMETRES—DAILY AVERAGES |      |      |       |      |      |      |      |       |      |      |             |
|----------------------|---|------|------|-------|------|------|------|------|-------|------|------|-------------|
|                      | Jan.  | Feb. | Mar. | April | May  | June | July | Aug. | Sept. | Oct. | Nov. | Dec.        |
| WEST VIEW PARK ..    | 1.82  | 3.18 | 1.31 | 1.79  | 1.44 | 0.84 | 0.89 | 0.71 | 0.91  | 1.53 | 2.77 | 2.97        |
| BEACON HILL ..       | 3.49  | 3.35 | *    | 2.29  | 1.73 | 1.38 | 1.15 | 0.89 | 2.06  | 2.27 | 2.63 | 2.23        |
| TOTAL DAILY AVERAGES | 2.65  | 3.27 | 1.31 | 2.04  | 1.58 | 1.11 | 1.02 | 0.80 | 1.49  | 1.90 | 2.20 | 2.60        |
|                      |   |      |      |       |      |      |      |      |       |      |      | Daily Total |
|                      |   |      |      |       |      |      |      |      |       |      |      | 1.68        |
|                      |   |      |      |       |      |      |      |      |       |      |      | 2.13        |
|                      |   |      |      |       |      |      |      |      |       |      |      | 1.91        |

\*Records spoilt by unlawful interference.

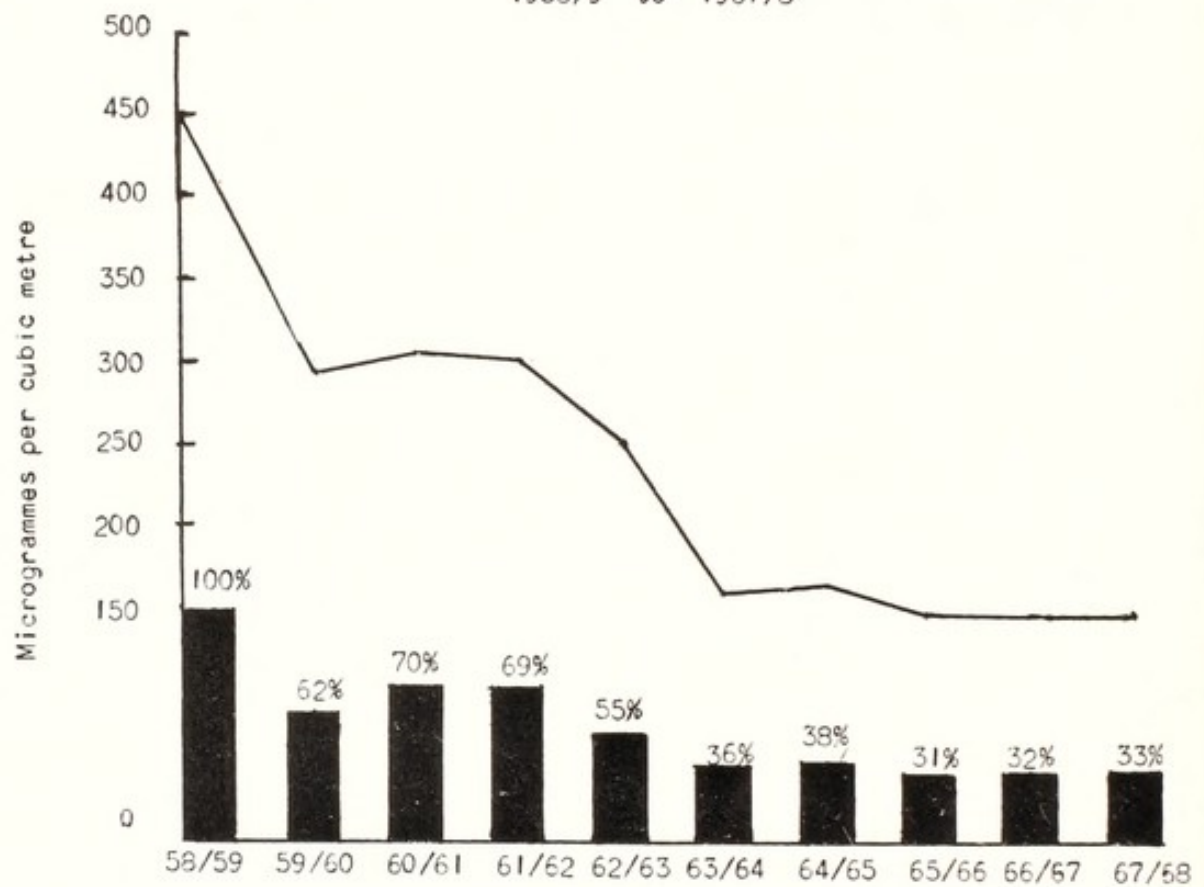
HOUSES UNDER SMOKE CONTROL

AND

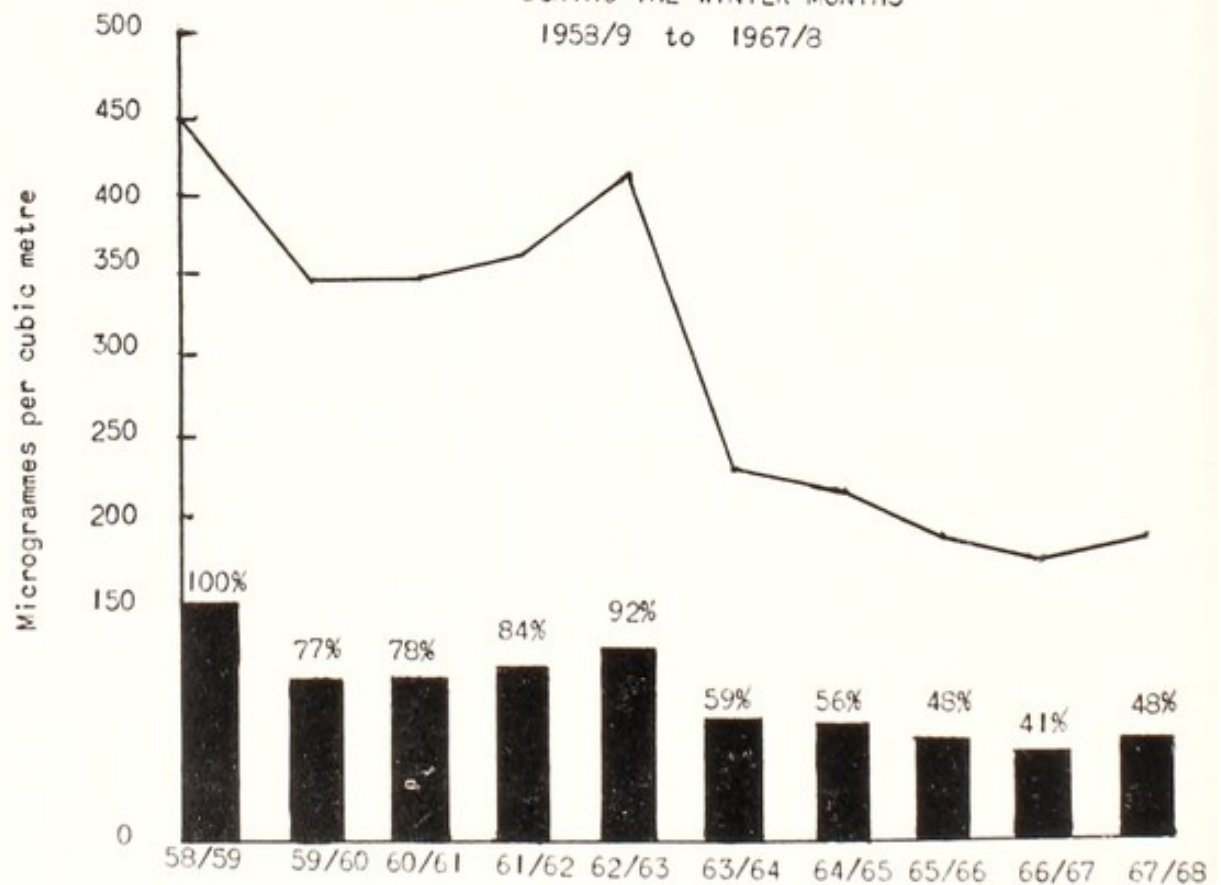
CONSEQUENT REDUCTION IN ATMOSPHERIC POLLUTION



TREND OF SMOKE POLLUTION IN HALIFAX DURING THE  
WINTER MONTHS  
1958/9 to 1967/8



TREND OF SULPHUR DIOXIDE POLLUTION IN HALIFAX  
DURING THE WINTER MONTHS  
1958/9 to 1967/8



General Summary of Meteorological Observations taken at the Central Public Library, Belle Vue, Halifax, from January 1st to December 31st, 1968

Prepared by Mr. F. C. Pritchard, F.L.A., Chief Librarian.

Latitude of Station: 53° 43' N.

Longitude of Station: 1° 52' W.

Altitude 625 feet (Barometer 632 feet)

| 1968<br><br>MONTH | Barometer                      |       | Air Temperatures |         |       |        |        |       |       |            |      |     |           |                          | Mean Temperature    |                      |               |                     | Relative Humidity | Vapour Pressure | Mean reading of Thermometers |            |      |            |       |                         | Wind               |                     |  |  |  |  |  |  |  |  | Rainfall |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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|                   | Mean at 32°F.<br>and sea level | Range | Maximum          | Minimum | Range | Mean   |        |       |       |            |      | Air | Dew Point | Maximum<br>in sun 5 rays | Minimum<br>on grass | Earth<br>4 feet down | Est. Strength | Relative Proportion |                   |                 |                              |            |      |            |       | Mean Amount<br>of Cloud | No. of<br>Raindays | Amount<br>Collected |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|                   |                                |       |                  |         |       | Maxima | Minima | Range | North | North East | East |     |           |                          |                     |                      |               | South East          |                   |                 | South                        | South West | West | North West | Calms |                         |                    |                     |  |  |  |  |  |  |  |  |          |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
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