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# County Palatine of Chester

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## REPORT

for the Year

1962

BY THE

## County Medical Officer of Health

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Presented to the  
County Health Committee

13th December, 1963

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## *Introduction*

*To the Chairman and Members  
of the County Health Committee*

Mr. Chairman, Ladies and Gentlemen,

I have the honour to present my Annual Report on the health of the administrative county of Cheshire for the year 1962. The Registrar General's estimate of the population at mid-1962 was 944,190, that is an increase of 20,560 over the estimated population at mid-1961. Only three county districts experienced a drop in population, in each case less than 200. The biggest increases were in Cheadle and Gatley U.D., Ellesmere Port M.B., Bredbury and Romiley U.D., Hazel Grove and Bramhall U.D., Wilmslow U.D., Bucklow R.D., and Chester R.D. Cheshire experiences each year a rise in population varying between 20,000 and 25,000, which is the population of a medium size urban district. For all these newcomers to the county, the whole of the county health services must be made available as soon as they take up residence.

This necessitates careful consideration each year of the adequacy of the health services, both from the point of view of buildings and of staff. In this connection it is useful to note that approximately 40% of households in the county requires the services of the local health authority in one form or another during any year.

The birth rate was 18·0 per thousand population, slightly higher than in 1961, and the highest since 1947, one of the bulge years. Illegitimate births were 4·2% of total live births, which is the highest rate since 1948. 32% of all babies were born under domiciliary conditions.

The stillbirth rate, 17·5 per 1,000 total live and stillbirths was the lowest recorded in the county. 508 perinatal deaths were reported (the total of stillbirths and deaths of infants during the first week of life) giving a perinatal death rate of 29·4, the lowest figure since observations of deaths at this period commenced.

11,462 deaths were recorded, giving a death rate of 12·1 per 1,000 population. The number of deaths from pulmonary tuberculosis was the lowest ever recorded (·046 per 1,000 population). There were no deaths either from measles or from diphtheria. The number of persons dying from cancer of the lungs or bronchi was approximately the same as last year; cancers of other sites in the body have shown approximately the same incidence of death for the past ten years.

There was a higher incidence of death from both pneumonia and bronchitis than for some years, approximately three-quarters of deaths from these two causes were in persons over the age of 65.



The infantile mortality, *i.e.* the number of deaths of infants under the age of one year, per 1,000 live births was 23, showing a rise over the previous year. The commonest causes of deaths of infants were congenital malformation, pneumonia and accident, and these accounted for 5% of infantile deaths.

It has been noticeable over the past few years that the bulk of work done in the divisional offices has developed both in scope and in magnitude, so that the county Organisation and Methods Team was asked to visit all divisional offices and report on the staff establishment and on methods employed within the offices. A separate report was made on each divisional office by the O. & M. Team, which was discussed carefully with the team and appropriate Divisional Medical Officer and Chief Clerk at headquarters and recommendations made to the several divisional committees. I wish to place on record my appreciation of the tactful and careful way in which the team performed its inspections; the recommendations as to methods have been found useful.

The Minister of Health's Command Paper, 1973, dealing with health and welfare work of local health authorities throughout the kingdom was studied with great care and it was gratifying to note that the scope of Cheshire services was fully in accordance with the Minister's views and that the future progress of Cheshire services was certainly up to the standard of that projected by other large authorities. The Cheshire County Council is now a member of the second consortium of local authorities (SCOLA) through which a programme of building works is drawn up and negotiation carried out with large building firms on a programme basis, thus reducing both the time taken to erect new buildings, and the cost. The essential requirement of such a scheme is to programme in advance, so that a constant and regular amount of work is required each year. Great care has been taken in the production of standard plans and schedules for clinics, training centres, ambulance stations and other buildings required for the county health services, and I must thank the County Architect and his staff for their co-operation in making these developments possible. The Ministry of Health building notes with relation to clinic centres have been studied and utilised. They have been found very helpful, but it is considered that certain rooms, in particular the medical room and general clinical room are too small and adherence to the building notes has meant that the county's original plan, by which easy circulation of the large number of mothers and babies attending at busy child welfare centres was achieved, has had to be discarded. At the time of writing the Eastham, Partington, Sale (Meadway), Grappenhall and Congleton Clinic Centres, the Northwich and Tattenhall Ambulance Stations and the Hyde Junior and Adult Training Centres have been completed and occupied.

Maternity Units, practitioners and midwives have been asked to report babies who should be considered to be "at risk". These babies then have special supervision by health visitors and medical officers.

Discussions have taken place on the use of the standard maternity co-operation card issued by the Ministry of Health, but after the most careful consideration it became clear that in Cheshire where necessary information flows freely between hospital and practitioner, where there are ten general practitioner maternity units, and where the fullest co-operation between midwives and family doctors has been the practice for many years, the present methods of co-operation are adequate and should be continued.

New child welfare clinics have been established for Great Boughton (Chester) and Grange (Runcorn), additional medical ante-natal clinics are in operation at Eastham and Partington and new midwives clinics at Eastham, Hale, Runcorn, Handforth, Sale (Meadway) and Grappenhall, and preparation classes for expectant mothers at Eastham, Ellesmere Port, Partington and Grappenhall have been commenced.

A system of co-operation between the staff of the County Health and Children's Departments has been evolved in order that Section I of the Children and Young Persons Act, 1963 can be operated without overlapping of visits to homes by officers of the departments.

Difficulty in the disposal of placentae and underpads is experienced in smokeless zones and incinerators have been installed at the new clinic centres at which these articles can be destroyed when home facilities for the purpose are inadequate.

The increasing population of the county has necessitated the total staff establishment of midwives, home nurses and district nurse midwives being raised from 222 to 250. The exceptionally severe weather experienced at the end of 1962 and during the early months of 1963 occasioned great hardship and strain for midwives and home nurses, particularly in the eastern and southern parts of the County. Notwithstanding the truly gigantic measures adopted by the Roads and Bridges Department to open roads for traffic which had been blocked by snow, these nurses were faced both by increased work because of the effect of the climatic conditions on patients, particularly elderly ones, and by the unprecedented difficulty in travel. It is a measure of the courage and devotion of the nursing staff that every summons to a confinement was answered promptly and that no serious case of illness was allowed to suffer. The thanks of the whole community are due to these brave women.

The number of health visitors has been raised from 118 to 124. With the agreement of the medical practitioners in the county, arrangements have been made for practitioners to call upon the services of health visitors at stated hours of each day.

Attention is drawn to the particulars regarding congenital malformations observed in newly born babies on page 88 of this report. These figures include malformations noticed in infants whose mothers had taken thalidomide during pregnancy.

The use made of the Domestic Help Service has continued to increase and in order to cope with additional work, it has been decided to appoint another Domestic Help Supervisor in the Sale and Altrincham area.

The unprecedented wintry conditions of frost and snow between mid-December, 1962, and February, 1963 also made heavy demands upon the Ambulance Service. During this period 1,783 emergency calls were answered without failure of either staff or vehicles, although on some occasions ambulances had to be dug out of snow drifts or preceded on their journeys by snow ploughs. During this time there were no fewer than 402 road accidents to which ambulance vehicles were called and 147 accidents involving pedestrians were caused through slipping on ice. There were 261 collapses due to cold, of which 24 were fatal and 18 patients suffering from coal gas poisoning arising from fractured gas mains were attended to by the Ambulance Service. On only two days, when the weather was exceedingly bad, were out-patient journeys cancelled. On the evening of Boxing Day, 18 ambulances and 33 drivers attended the serious railway accident near Crewe, and removed all injured persons to hospital within 90 minutes of the receipt of the first summons for help. The major accident plan was found to be of the utmost value on this occasion. I must congratulate the medical, nursing and administrative staff of the Crewe Memorial Hospital for their sterling services in treating the 30 persons injured in this accident.

The reorganisation of the county ambulance services has now been completed, with the two control stations manned day and night at Chester and Cheadle Hulme, and six area supervisors working under the direction of the County Ambulance Officer and his Deputy. Each Area Supervisor has the responsibility of maintaining close liaison with the hospitals to which patients are carried and a notable improvement has been made in this regard. The first supplementary ambulance training course was held at the Altrincham Ambulance Station, which lasted for a full week-end. Lectures were given by consultants, general practitioners, divisional medical officers, supervisors of midwives and ambulance staff, and carefully devised practical exercises were held in conjunction with the Altrincham branch of the Casualties Union. This course proved so successful that it has been repeated and is becoming a regular feature of the Ambulance Service; this success is in a large part due to the invaluable help received from the consultants and practitioners taking part in the course and the enthusiastic work of the volunteer members of the Casualties Union. In the new ambulance station at Northwich rooms have been specially set apart and equipped for ambulance training, so that this supplementary instruction and training can be continued under ideal circumstances and with adequate training equipment.

Although no actual case arose in Cheshire the smallpox epidemic in early 1962 had its effect in inducing many times the normal number of county residents, particularly adults, to seek vaccination or revaccination. Whilst the proportion of infants vaccinated remained approx-

imately the same as usual, 40%, three times the number of children aged one year, seven times the number aged two to four years, twenty times the number of school children and almost thirty times the normal number of adults were vaccinated, mostly by their family doctors. The effect of the county immunisation schemes is shown by the dramatic fall in the number of cases of poliomyelitis and whooping cough notified. Four cases only of poliomyelitis were notified during the year compared with 131 in 1956, which was the heaviest incidence recorded in the county, and during the last ten years notifications of whooping cough have dropped from 3,080 in 1953 to 125 in the year under review. The decline in the use of Wrenbury Hall by tuberculous persons has enabled the whole of the William Gibson Hostel to be occupied by adult mentally subnormal males, so that there are now few vacancies. Some of these men work in local industry and a few in the Wrenbury Hall Industries, but approximately half attend an adult training centre. An extended use is now made of Pictor House, Sale (maintained by the local branch of the National Spastics Society) and payments are now made in respect of physically handicapped children under the age of five years where no evidence of severe mental subnormality is apparent. Pictor House has also been used for weekly boarding purposes on behalf of mentally subnormal children who for one reason or another cannot be properly cared for in their own homes.

The scope and volume of the work done by Mental Welfare Officers enlarges each year and the number of Mental Welfare Officers employed has been increased. Use has been made of the existing one-year courses at Manchester University and at the National Institute for social work training and one Mental Welfare Officer has been in attendance at each of these courses during the past year. These courses have been of great value and it is hoped to secure acceptance for more officers at them.

Reference was made in last year's Annual Report to the agreement recently made with Cheadle Royal Hospital, whereby mentally disordered persons can attend daily for industrial training, and whereby persons employed in the sheltered workshop can receive a standard minimum wage through County Council grant. There are now more persons benefiting from this arrangement than a year ago, and it is particularly gratifying to record that certain patients discharged from mental hospital have made rapid progress in their rehabilitation, so that although each of them had had many years' experience as in-patients in the mental hospital, their progress after admission to the industrial unit was so rapid that within a few months they were in a position to receive recommendation as sheltered workers and therefore receive a grant. It is hoped to reach a satisfactory agreement with Cheadle Royal so that use can be made of hostel accommodation for Cheshire residents working in the industrial unit.

On page 107 of this report will be found particulars regarding the employment history of mentally handicapped school leavers who had

been attending ordinary schools in Cheshire, but receiving special attention from teachers who had had additional training in work amongst mentally subnormal pupils. It will be noted that at the time of the enquiry 86% of those school leavers with an I.Q. between 65 and 75 were employed, 71% of those with an I.Q. between 55 and 64, and that 24 out of 57 school leavers with an I.Q. below 55 had obtained employment and were able to remain satisfactorily in work.

A notable addition to the facilities for the care of mentally handicapped children is being provided by the Sale and Altrincham Society for Handicapped Children, who are erecting a building so as to provide day care for severely handicapped mentally subnormal children. It is expected that when these premises are completed, use will be made of them by the local health authority.

Each successive year shows progress in the work of adaptation of property to suit the needs of physically handicapped persons. Additional clubs and centres for handicapped persons have been set up in many parts of the county, and at Congleton a voluntary body is providing a centre which may well be the basis of much useful work amongst handicapped persons of all categories in the Borough. In consultation with the County Architect, plans have been worked out for centres for handicapped persons to be built in conjunction with certain large clinic centres. This is a field where voluntary help is particularly useful, and I acknowledge with grateful thanks the considerable help which is obtained from the Women's Voluntary Services. The work involved in providing services for handicapped persons is the responsibility of Divisional Medical Officers, but in order to correlate these efforts, the Warden and Manager of Wrenbury Hall has been seconded to this service which is developing rapidly in its scope and volume.

It is the aim of the department to use its resources and services in such a way that handicapped persons of all ages can stay in their own homes, living as useful and as happy a life as possible, and in furtherance of these objects I have invariably received the greatest help from the County Welfare Officer and his staff, as well as from geriatricians employed in the hospital service.

After careful consideration the County Council has decided to support the fluoridation of water supplies. The Council is not itself a water authority, so that this necessary measure to preserve healthy teeth must be pursued in co-operation with the several water undertakings, many of which are owned and managed by neighbouring county boroughs. The regrouping of water undertakings is proceeding and at the time of writing water is supplied within the county by ten undertakings, a reduction of two in the past year.

Financial assistance has been granted to the Northwich R.D.C. and to Tarvin R.D.C., so as to provide recording instruments at Delamere and Farndon respectively in accordance with the scheme of national survey of air pollution.

General practitioners in Cheshire were asked to report voluntarily any cases of brucellosis occurring in their practices and 28 cases have been reported in the last two years. It is the practice to take samples from each of the 325 farms selling raw milk on three occasions annually, and these are examined at Ministry of Health laboratories at Chester and Manchester. Although the majority of farmers in the county make use of the Ministry of Agriculture scheme for the vaccination of calves, approximately 14% of farms selling raw milk had a sample positive for brucella organisms at least once during 1962. Separate samples are taken from groups of ten cows in a herd and if the sample proves positive, further tests are taken with a view to identification of individual cattle. Action is then taken under Regulation 20 of the Milk and Dairies Regulations, 1959, and heat treatment secured for the milk from such cows. Under this heading a most happy relationship exists between the department and the Veterinary Surgeons of the Ministry of Agriculture. There can be no doubt, however, that cases of brucellosis will continue to arise in human beings until all milk is pasteurised, or until brucella infection in cattle is eradicated.

I wish to thank the Chairman and Members of the County Health Committee and of the Divisional Health Committee for their constant help and support throughout the year. My thanks are also due to the Clerk of the County Council, the County Treasurer, the County Architect and indeed the heads of all county departments, for the co-operation and assistance which they have rendered to me on all occasions and it is with the deepest gratitude that I acknowledge the loyalty and zeal shown by the whole of the staff of the County Health Department, whether on headquarters or divisional staff.

I beg to remain,

Your obedient servant,

15th November, 1963.

ARNOLD BROWN.

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B. O'Connor, M.A., Barrister-at-Law

Chief Administrative Assistant

County Ambulance Officer

Deputy County Ambulance  
Officer

County Health Inspector

Deputy County Health Inspector

Supt. Mental Welfare Officer

Superintendent of Home Nursing

Non-Medical Supervisor of  
Midwives

Assistant Superintendents of  
Home Nursing

R. G. Jones

C. G. Davis

W. Pembleton

J. M. Farrall

T. Rattray

Miss I. N. Vaughan

Miss K. Heron.

Miss L. Jacks

Miss M. L. Plant



## HEALTH VISITORS & SCHOOL NURSES (124)

	CIVIL PARISHES	CENTRES & CLINICS
<b>DISTRICT No. 1a.</b> Mrs. M. L. Baker, The Flat, Broomfield, Meols Drive, Hoylake, Wirral	Hoylake U.D. (Meols & Hoose Wards)	Broomfield, Meols Drive, Hoylake (Tel. Hoylake 2322) Welfare Centre— <i>Thurs. p.m.</i> Ante-Natal Clinic— <i>Tues. a.m.</i> Preparation Class— <i>Wed. p.m.</i> M.A. Clinic— <i>Fri. a.m.</i> Mantoux Testing Clinic— <i>Last Thurs. a.m.</i> )
<b>DISTRICT No. 1b.</b> Miss W. Lacy, 3, Glebe Road, Wallasey	Hoylake U.D. (Central, Park & South Wards)	Broomfield, Meols Drive, Hoylake Welfare Centre— <i>Thurs. p.m.</i> Young Children's Clinic— <i>1st Fri. a.m.</i> Ante-Natal Clinic— <i>Alt. Tues. a.m.</i> Preparation Class— <i>4th Wed. p.m.</i> Paediatric Clinic— <i>Alt. Tues. p.m.</i> Screening Clinic— <i>2nd &amp; 4th Mon. p.m.</i> Mantoux Testing Clinic— <i>Last Thurs. a.m.</i> Parish Hall, West Kirby Welfare Centre— <i>Fri. p.m.</i>
<b>DISTRICT No. 1c.</b> Mrs. D. Christian, 87, Palm Grove, Oxton Birkenhead (Tel. Claughton 4702)	Hoylake U.D. (Grange Ward, Caldy & Frankby Ward Pt. ii—Caldy)	Broomfield, Meols Drive, Hoylake Young Children's Clinic— <i>1st Fri. a.m.</i> Ante-Natal Clinic— <i>Tues. a.m.</i> Screening Clinic— <i>2nd &amp; 4th Mon. p.m.</i> Paediatric Clinic— <i>Alt. Tues. p.m.</i> Parish Hall, West Kirby Welfare Centre— <i>Fri. p.m.</i> Parish Hall, Newton Welfare Centre— <i>2nd and 4th Wed. p.m.</i>
<b>DISTRICT No. 1d.</b> Miss D. Maybury, 12, Far Meadow Lane, Irby, Heswall, Wirral (Tel. Irby 2564)	Hoylake U.D. (Greasby Ward, Caldy & Frankby Ward Pt. i—Frankby)	Broomfield, Meols Drive, Hoylake Ante-Natal Clinic— <i>Alt. Tues. a.m.</i> Preparation Class— <i>Alt. Wed. p.m.</i> Eye Clinic— <i>1st, 3rd and 5th Mon. a.m.</i> Methodist Church Hall, Greasby Welfare Centre— <i>Tues. p.m.</i> Screening Clinic— <i>1st Wed. a.m.</i>
<b>DISTRICT No. 2a.</b> Miss R. E. Abraham, 75a Rock Lane East, Rock Ferry Birkenhead (Tel. Rock Ferry 728)	Bebington M.B. (N. & part S. Brom. Wards)	The Rake, Eastham (Tel. Eastham 2411) Preparation Class— <i>Wed. p.m.</i> Council Offices, Bromborough (Tel. Brom. 2102) Young Children's Clinic— <i>4th Tues. p.m.</i> Screening Clinic— <i>Fri. p.m.</i> Welfare Centre— <i>Thurs. a.m.</i>
Mrs. M. Woodridge, Carisbrooke, Hooton Park, Wirral	Bebington M.B. (Park & New Ferry Wards)	New Ferry Park (Tel. R.F. 1143 & 5961) Welfare Centre— <i>Wed. p.m.</i> Ante-Natal Clinic— <i>Mon. a.m.</i> Preparation Class— <i>Thurs p.m.</i>
Mrs. M. F. Cordon, 8, Westbrook Road, Sau-hall Massie, Wirral (Tel. Arrowebrook 6051)	Bebington M.B. (Eastham (pt. i) and Pt. S. Brom- borough Wards)	The Rake, Eastham Welfare Centre— <i>Mon. p.m.</i> Ante-Natal Clinic— <i>Fri. a.m.</i> Screening Clinic— <i>1st and 3rd Tues. p.m.</i> Council Offices, Bromborough Screening Clinic— <i>Fri. p.m.</i> Welfare Centre— <i>Thurs. a.m.</i> Handicapped Persons Club— <i>Wed. p.m.</i>
Miss D. V. Stamper, 25, Hillary Road, Eastham, Wirral	Bebington M.B. (Woodhey and Pt. L. Bebington Wards)	New Ferry Park Screening Clinic— <i>2nd &amp; 4th Fri. a.m.</i> Victoria Hall, Higher Bebington (Tel. Mountwood 1527) Welfare Centre— <i>Tues. p.m.</i> Screening Clinic, 1st & 3rd <i>Fri. a.m.</i> Clatterbridge Hospital Geriatric Clinic— <i>Thurs. p.m.</i>

## CIVIL PARISHES

## CENTRES &amp; CLINICS

## District No. 2a—(cont.)

Mrs. M. Becker, 38, Brookhurst Road, Bromborough Wirral	Bebington M.B. (Hr. Bebington and Part L. Bebington Wards)	New Ferry Park Screening Clinic—1st & 3rd Fri. a.m. Preparation Class—Thurs. p.m. Young Children's Clinic—2nd Wed. a.m. School Clinic, Wed. a.m. Victoria Hall, Higher Bebington Welfare Centre—Tues. p.m.
Miss D. Cadogan, 69, Southbourne Road, Wallasey.	Bebington M.B. (Poulton & Pt. L. Bebington Wards)	New Ferry Park Welfare Centre—Wed. p.m. Eye Clinic—Thurs. a.m. Clatterbridge Hospital Chest Clinic—Mon. p.m. (twice monthly) Women's Institute, Thornton Hough Welfare Centre 1st and 3rd Fri. p.m.
Miss E. Nicholson, 37, Mill Road, Hr. Bebington, Wirral (Tel. Mountwood 1949)	Bebington M.B. (Sunlight Ward)	New Ferry Park Paediatric Clinic—Tues. a.m. Mayer Hall, Bebington (Tel. R.F. 1440) Young Children's Clinic—Mon. p.m. Screening Clinic—1st Tues. p.m.
Miss E. J. Lloyd, 17, Woodkind Hey, Spital, Bromborough (Tel. Bromborough 2189)	Bebington M.B. (Eastham Ward (pt. ii))	The Rake, Eastham Welfare Centre—Mon. p.m. Young Children's Clinic—Tues. p.m. Screening Clinic—1st and 3rd Tues. p.m. Eye Clinic—2nd and 4th Thurs. p.m. Ante-Natal Clinic—Fri. a.m. Preparation Class—Wed. p.m. Paediatric Clinic—2nd and 4th Fri. p.m.

## DISTRICT No. 2b.

Miss E. L. Roberts, 23, Penmon Drive, Heswall, Wirral	Capenhurst Ledsham	Puddington Shotwick Woodbank	Mellock Lane, Neston (Tel. Neston 2189) Welfare Centre—Thurs. p.m. Ante-Natal Clinic—Mon. a.m. Preparation Class—2nd and 4th Fri. p.m. Screening Clinic—2nd and 4th Tues. a.m. Eye Clinic—2nd and 4th Mon. p.m.
Mrs. D. Dromgoole, Oysters, 36, Norley Drive, Vicars Cross, Chester.	Neston U.D. (Burton & Ness, Little Neston & Willaston Wards)	Red Cross Depot, Willaston (Tel. Willaston 3277) Welfare Centre—1st and 3rd Fri. p.m.	Mellock Lane, Neston Welfare Centre—Thurs. p.m. Young Children's Clinic—1st and 3rd Tues. Ante-Natal Clinic—Mon. a.m. a.m. Preparation Class—1st, 3rd and 5th Fri. p.m. Screening Clinic—2nd and 4th Tues. a.m. M.A. Clinic—2nd and 4th Tues. a.m. Paediatric Clinic—Thurs. p.m.

## DISTRICT No. 2c.

Mrs. E. G. Sinden, Gayton Grange (Flat 2), Well Lane, Gayton, Wirral (Tel. Heswall 2706)	Irby Pensby Thurstaston	Telegraph Road, Heswall (Tel. Heswall 3551) Welfare Centre—Mon. p.m. Ante-Natal Clinic—Thurs. a.m. Preparation Class—Alt. Thurs p.m. M.A. Clinic—1st Tues. p.m. Screening Clinic—1st and 3rd Tues. a.m. Paediatric Clinic—2nd and 4th Tues. a.m.
Mrs. A. C. Storry, 27, Bertram Drive, Meols		Methodist Hall, Mill Hill Road, Irby Welfare Centre—1st and 3rd Wed. p.m. Church Hall, Pensby Welfare Centre—2nd and 4th Tues. p.m.

## DISTRICT No. 2d.

Miss M. Okill, 79, Irby Road, Heswall, Wirral	Barnston Gayton Heswall-cum-Oldfield	Telegraph Road, Heswall Welfare Centre—Mon. p.m. Young Children's Clinic—3rd Tues. p.m. Ante-Natal Clinic—Thurs. a.m. Preparation Class—Alt. Thurs. p.m. Screening Clinic—1st and 3rd Tues. a.m. Eye Clinic—1st and 3rd Fri. a.m.
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## CIVIL PARISHES

## CENTRES &amp; CLINICS

**DISTRICT No. 3a.**  
Miss M. A. Cowley\*  
8, Watling Crescent,  
Handbridge, Chester

Ellesmere Port M.B.  
Westminster and Central  
A.A. Wards)

Stanney Lane, Ellesmere Port  
(Tel. E. Port 1713)  
Welfare Centre—*Alt. Tues. p.m.*  
Ante-Natal Clinic—*Mon. a.m.*  
Ellesmere Port Hospital  
Paediatric Clinic—*Thurs. a.m.*

Miss R. E. Ruark,\*  
187, Raeburn Avenue,  
Eastham,  
Wirral

Ellesmere Port M.B.  
(Grange Ward)

Stanney Lane, Ellesmere Port  
Welfare Centre—*Alt. Fri. p.m.*  
Ante-Natal Clinic—*Mon. a.m., Wed. p.m.*  
Screening Clinic—*Alt. Tues. p.m.*  
Chester Road, Little Sutton (Tel. Hooton  
3297)  
Ante-Natal Clinic—*Fri. a.m.*

Miss G. M. Thorburn,\*  
Flat 2,  
35, Liverpool Road  
Chester

Ellesmere Port M.B.  
(South Pt. Whitby Ward)

Stanney Lane, Ellesmere Port  
Welfare Centre—*Fri. a.m.*  
E.N.T. Clinic—*2nd and 4th Mon. a.m.*  
Screening Clinic—*Tues. p.m.*  
Ante-Natal Clinic—*Alt. Wed. p.m.*  
Audiology Clinic—*2nd Tues. p.m.*  
(quarterly)

Miss M. L. Bate,\*  
86, Chester Road,  
Ellesmere Port  
(Tel. E. P. 3009)

Ellesmere Port M.B.  
(Stanlow C.D. Ward)

Stanney Lane, Ellesmere Port  
Welfare Centre—*Alt. Tues. p.m.*  
Young Children's Clinic—*4th Thurs. p.m.*  
Screening Clinic—*Alt. Tues. p.m.*  
B.C.G. Clinic—*2nd Mon. a.m.*  
Preparation Class—*Mon. p.m.*

Ellesmere Port Hospital  
Paediatric Clinic—*Thurs. a.m.*

Miss L. Goodacre\*  
Flat 4,  
2, Townfield Lane,  
Bebington.

Ellesmere Port M.B.  
(Victoria, Central A.B. and  
Stanlow C.C. Wards)

Stanney Lane, Ellesmere Port  
Welfare Centre—*Tues. p.m.*  
Preparation Class—*Mon. p.m.*  
Eye Clinic—*Fri. a.m.*

Miss J. F. Fawcett,  
2, Glen Athol Road,  
Great Sutton,  
Wirral

Ellesmere Port M.B.  
(Sutton Ward)

Chester Road, Little Sutton  
Welfare Centre—*Mon. p.m.*  
Young Children's Clinic—*1st Tues. p.m.*  
Ante-Natal Clinic—*Fri. a.m.*  
Preparation Class—*1st and 3rd Thurs. p.m.*  
Screening Clinic—*Tues. p.m. as required.*  
Immunisation Clinic—*2nd Fri. p.m.*

Miss K. E. Cawthorn,  
6, Quarry Avenue,  
Bebington

Ellesmere Port M.B.  
(Poole Ward)

Chester Road, Little Sutton  
Welfare Centre—*Mon. p.m.*  
Preparation Class—*2nd & 4th Thurs. p.m.*  
Ante-Natal Clinic—*Fri. a.m.*  
Screening Clinic—*Tues. p.m. as required*  
Paediatric Clinic—*1st & 3rd Tues. a.m.*  
*2nd & 4th Tues. p.m.*

The Castrol Social Club, Rossmore Road, E  
Overpool  
Welfare Centre—*1st and 3rd Thurs. p.m.*

Miss M. M. Trist\*  
19, Carrington Road,  
Wallasey.

Ellesmere Port M.B.  
(North part Whitby Ward)

Stanney Lane, Ellesmere Port  
Welfare Centre—*Fri. p.m.*  
Ante-Natal Clinic—*Wed. p.m.*

Chester Road, Little Sutton  
Ante-Natal Clinic—*Fri. a.m.*  
Screening Clinic—*Tues. p.m. as require*

Mrs. H. K. Wright,  
(Clinic Nurse)

Stanney Lane, Ellesmere Port  
Welfare Centre—*Tues. and Fri. p.m.*  
Ante-Natal Clinic—*Mon. a.m. Wed. p.m.*  
M.A. Clinic—*Thurs. a.m.*  
Immunisation Clinic—*2nd Thurs. p.m.*  
Midwives Clinic—*Mon. p.m.*

\*These Health Visitors attend this Clinic on rota.

Stanney Lane, Ellesmere Port  
Preparation Class—*Mon. p.m.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

<b>DISTRICT No. 3b,</b> Miss D. Toft, Golf House, The Oaks, Upton, Chester Tel. Chester 23638)	Aldford Buerton Chester Castle Christleton Churton Heath Claverton Dodleston Eaton Eccleston Golborne Bellow Geltarne David	Handley Huntington Kinnerton Lea Newbold Marlston Newton-by-T'hal Poulton Pulford Rowton Saighton Tattenhall	Barbour Institute, Tattenhall Welfare Centre—1st and 3rd Mon. p.m. Village Hall, Huntington Welfare Centre—2nd and 4th Wed. p.m. Women's Institute, Christleton Welfare Centre—1st and 3rd Thurs. p.m. Immunisation Clinic—Last Fri. a.m.
<b>DISTRICT No. 4a</b> Miss B. Jackson, 30, Acres Lane, Upton, Chester (Tel. Chester 27251)	Barrow Bridge Trafford Dunham-on-the-Hill Elton Great Boughton Guilden Sutton Hapsford Hoole Village	Littleton Little Stanney Mickle Trafford Picton Stoke Thornton-le-Moors Wimbolds Trafford	55 Hoole Road, Chester (Tel. Chester 22299) M.A. Clinic—1st Mon. p.m. Screening Clinic—2nd Fri. p.m. Eye Clinic—2nd and 5th Thurs. p.m. Village Hall, Barrow Welfare Centre—1st and 3rd Wed. p.m. Women's Institute, Christleton Welfare Centre—3rd Thurs. p.m. The Rock, Frodsham Screening Clinic—1st and 3rd Fri. p.m. Congregational Church Hall, Gt. Boughton, Chester. Welfare Centre—2nd and 4th Tues. p.m.
<b>DISTRICT No. 4b.</b> Miss M. G. E. Crawford, 6, Newton Park View, Newton, Chester Tel. Chester 24420)	Bache Backford Caughall Chorlton-by-Backford Croughton	Lea-by-Backford Mollington Moston Saughall Shotwick Park Upton Wervin	Village Hall, Upton Welfare Centre—Thurs. p.m. Vernon Institute, Saughall Welfare Centre—1st, & 3rd Mon. p.m.
<b>DISTRICT No. 5.</b> Miss M. Gourlay, Glenthorne, High Street, Tarporley (Tel. Tarporley 223)	Ashton Beeston Bruen Stapleford Burton-by-Tarvin Clotton Hoofield Cotton Abbots Cotton Edmurds Delamere Duddon Eaton Foulk Stapleford Hatton Hockenhull Horton-cum-Peel	Huxley Iddinshall Kelsall Mouldsworth Pryor's Heys Rushton Tarporley Tarvin Tilstone Fearnall Tiverton Utkinton Waverton Willington	Done Rooms, Tarporley Welfare Centre—2nd and 4th Thurs. p.m. Screening Clinic—1st Fri. a.m. Eye Clinic—1st Thurs. p.m. Parish Room, The Vicarage, Tarvin Welfare Centre—2nd and 4th Wed. p.m. Screening Clinic—1st Fri. a.m. Parish Hall, Kelsall Welfare Centre—1st and 3rd Tues. p.m. Jubilee Hall, Malpas Screening Clinic—3rd Thurs. p.m.
<b>DISTRICT No. 6.</b> Mrs. W. Jones, Lyle Villas, Caergwrle, Wrexham (Tel. Caergwrle 213)	Agden Aldersey Barton Bickerton Bickley Bradley Broxton Burwardsley Caldecott Carden Chidlow Chorlton Chowley Church Shocklach Churton-by-Alfd Ch'rton-by-F'don Clutton Coddington Crewe Cuddington Duckington Edge Edgerley	Egerton Farndon Grafton Hampton Harthill Horton Kings Marsh Larkton Macefen Malpas Newton-by-Malpas Oldcastle Overton Shocklach Oviat Stockton Stretton Threapwood Tilston-by-Malpas Tushingham Wigland Wychough	Jubilee Hall, Malpas Welfare Centre—1st, 3rd & 5th Mon. p.m. Screening Clinic—3rd Thurs. p.m. Memorial Hall, Farndon Welfare Centre—1st and 3rd Tues. p.m. Done Rooms, Tarporley Screening Clinic—1st Fri. a.m. (odd months) The Vicarage, Tarvin Screening Clinic—1st Fri. p.m. 

## CIVIL PARISHES

## CENTRES &amp; CLINICS

**DISTRICT No. 7a.**

Mrs. D. E. Govan,  
23, Waylands Drive,  
Liverpool, 25.

Runcorn U.D.  
(Halton & Grange Wards)

34, Halton Road, Runcorn (Tel. Runcorn 2449)

Welfare Centre—Wed. a.m.  
Ante-Natal Clinic—Thurs. a.m.  
St. Andrew's Church Hall, Grange  
Welfare Centre—2nd and 4th Thurs. p.m.

Miss C. V. Kilcullen,  
Paddock Lodge,  
Hale Road, Hale,  
Liverpool  
(Tel. Hale 3257)

Runcorn U.D.  
(Heath and Victoria Wards)

34 Halton Road, Runcorn  
Welfare Centre—Wed. p.m.  
Ante & Post Natal Clinic—Thurs. a.m.  
Screening Clinic—Tues. p.m.

Miss A. Davies,  
3, Cornwall Street,  
Runcorn

Runcorn U.D.  
Weston Ward)

34 Halton Road, Runcorn  
Welfare Centre—Wed. p.m.  
Young Children's Clinic—2nd Fri. a.m.  
Screening Clinic—Tue. p.m.  
Russell Hall, Weston Point  
Welfare Centre—1st and 3rd Thurs. p.m.

Mrs. J. Delaney,  
8, Boston Avenue,  
Runcorn

Runcorn U.D.,  
Bridgewater & Mersey Wards)

34 Halton Road, Runcorn  
Welfare Centre—Wed. a.m.  
28 Halton Road, Runcorn  
Eye Clinic—Tues. p.m.  
Memorial Hospital, Runcorn  
Paediatric Clinic—Wed. p.m.  
28 Halton Road, Runcorn (Tel. Runcorn 3621)  
Preparation Class—Fri. p.m.

H.V's attend on rota the clinic opposite

**DISTRICT No. 7b.**

Miss S. E. Robinson,  
23, Western Crescent,  
Runcorn  
(Tel. Runcorn 4239)

Aston  
Daresbury  
Dutton  
Halton  
Hatton  
Kingsley  
Moore

Norley  
Norton  
Preston Brook  
Sutton  
Whitley

Hurst Methodist Church, Kingsley  
Welfare Centre—2nd and 4th Wed. p.m.  
65 Whitefield Road, Stockton Heath  
Screening Clinic—as required

**DISTRICT No. 8.**

Miss J. Berney  
(temporary)

Alvanley  
Frodsham  
Helsby

Manley

The Rock, Frodsham (Tel. Frodsham 2388)  
Welfare Centre—Alt. Tues. p.m.  
Ante-Natal Clinic—Thurs. a.m.  
Screening Clinic—1st and 3rd Fri. p.m.  
Eye Clinic—2nd Wed. a.m., 2nd & 4th  
Tues. a.m.  
Cable Works, Helsby  
Welfare Centre—Alt. Tues. p.m.  
55 Hoole Road, Chester  
Screening Clinic—2nd, and 4th Fri. p.m.

**DISTRICT No. 9a**

Miss K. Gosney,  
1, The Green,  
Hartford,  
Northwich

Acton  
Anderton  
Barnton  
Comberbach  
Crowton

Great Budworth  
Little Leigh  
Marbury

Brunner School, Barnton (Tel. Northwich 5639)  
Welfare Centre—2nd and 4th Wed. p.m.  
Screening Clinic—Fri. a.m.  
23 Church Lane, Weaverham  
(Tel. Weaverham 3177)  
Welfare Centre—Tues. p.m.  
Parish Hall, Comberbach  
Welfare Centre—1st and 3rd Wed. p.m.  
Screening Clinic—3rd Wed. a.m.

**DISTRICT No. 9b.**

Mrs. B. Vintner,  
58, Middlewich Road,  
Northwich

Weaverham

23 Church Lane, Weaverham  
(Tel. Weaverham 3177)  
Welfare Centre—Tues. p.m.  
Young Children's Clinic—3rd Mon. p.m.  
Preparation Class—Thurs. p.m.  
M.A. Clinic—Fri. a.m.  
Screening Clinic—Fri. a.m.  
Eye Clinic—3rd Fri. p.m.

**DISTRICT No. 10.**

Miss F. N. Pickford,  
327 London Road,  
Davenham,  
Northwich

Knutsford U.D. (West Ward)  
Aston-by-Bud'th  
Bexton  
Mere  
Nether Peover  
Peover Inferior  
Pickmere  
Plumley  
Tabley Inferior  
Tabley Superior

County Offices, Bexton Road, Knutsford  
Welfare Centre—Wed. p.m.  
Young Children's Clinic—4th Thurs. p.m.  
(alt. months)  
The Institute, Lower Peover  
Welfare Centre—2nd Mon. p.m.  
Village Hall, Plumley  
Welfare Centre—1st and 3rd Thurs. p.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

<b>DISTRICT No. 10—contd.</b>	Knutsford U.D. (Over and Nether County Offices, Bexton Road, Knutsford Wards) Goostrey Ollerton Peover Superior Toft	Welfare Centre—Wed. p.m. Young Children's Clinic—4th Thurs. p.m. (alt. months) Screening Clinic—2nd and 4th Fri. a.m. Eye Clinic—1st Thurs. p.m. Social Club, Goostrey Welfare Centre—1st and 3rd Tues. p.m. Parish Room, Over Peover Welfare Centre—1st and 3rd Mon. p.m.
<b>DISTRICT No 11.</b>	Northwich U.D. (Witton and Northwich BA Wards)	Parkfield, Middlewich Road, Northwich (Tel. Northwich 2186) Welfare Centre—Thurs. p.m. Young Children's Clinic—1st Wed. p.m. Preparation Class—Mon. p.m. Screening Clinic—1st and 2nd Wed. a.m.
Mrs. E. E. Conlin, 38 King Street, Knutsford	Northwich U.D. (Castle and Winnington Wards)	Darland House, Winnington Hill, Northwich (Tel. Northwich 4643) Welfare Centre—Tues. p.m. Paediatric Clinic—4th Mon. p.m. Screening Clinic—1st Thurs. p.m.
<b>DISTRICT No. 12a,</b> Mrs. M. T. H. Twigg, 23 Amherst Road, Mauldeth Road, Withington,, Manchester 20 (Tel. Rusholme 9423)	Allostock Lach Dennis Lostock Gralam Marston Rudheath Wharcroft Wincham	Parkfield, Middlewich Road, Northwich Welfare Centre—Thurs. p.m. Preparation Class—Mon. p.m. E.N.T. Clinic—2nd Wed. a.m. Alkali Social Club, Lostock Gralam Welfare Centre—2nd and 4th Wed. p.m.
<b>DISTRICT No. 12b.</b>	Cuddington Hartford	Parkfield, Middlewich Road, Northwich Eye Clinic—2nd & 3rd Thurs. a.m. and 1st Fri. p.m. Methodist Chapel, Hartford Welfare Centre—2nd & 4th Tues. p.m. Church Hall, Sandiway Welfare Centre—1st & 3rd Tues. p.m. 23 Church Lane, Weaverham Screening Clinic—Fri. a.m.
Miss P. Holt, Ivy House, Dunham Town, Altrincham (Tel. Altrincham 2505)	Winsford U.D. (Vale Royal & Wharton Wards) Darnhall Little Budworth Marton Moulton Oakmere	98 Weaver Street, Winsford (Tel. Winsford 2387) Young Children's Clinic—1st Thurs. p.m. Welfare Centre—Fri. p.m. Preparation Class—Wed. p.m. Eye Clinic—2nd Tues., 3rd & 4th Thurs. p.m. Screening Clinic—1st Tues. p.m. Church Hall, Moulton Welfare Centre—3rd Wed. p.m. Farm of The Good Shepherd, Leftwich Screening Clinic—4th Tues. p.m.
<b>DISTRICT No. 13a</b> Mrs. M. Brown Seatoller, Northwich Road, Weaverham, Northwich (Tel. Weaverham 2357)	Winsford U.D. (Gravel, Over & Swanlow Wards)	98 Weaver Street, Winsford Welfare Centre—Fri. p.m. Young Children's Clinic—1st Thurs. p.m. Preparation Class—Wed. p.m. M.A. Clinic—Fri. 2 p.m. E.N.T. Clinic—2nd Thurs. p.m. Screening Clinic—1st Tues. p.m. Farm of the Good Shepherd, Leftwich Screening Clinic—2nd Tues. p.m.
<b>DISTRICT No. 13b.</b> Miss J. M. Cassick, 471, Chester Road, Hartford, Northwich (Tel. Sandiway 2040)	Middlewich U.D. Byley Church Hulme Crantage Sproston	85 Wheelock Street, Middlewich (Tel. Middlewich 2165) Welfare Centre—Mon. p.m. 1st. Thurs. p.m. Young Children's Clinic—3rd Wed. p.m. Eye Clinic—3rd Tues. p.m., 1st Tues. a.m. Screening Clinic—2nd, 3rd, 4th & 5th Thurs. p.m. Mother's Union Hut, Holmes Chapel Welfare Centre—2nd & 4th Tues. p.m.
<b>DISTRICT No. 14a.</b> Miss M. Barlow, Ingleton, Plant Lane, Elton, Sandbach (Tel. Sandbach 155)	Middlewich U.D. Byley Church Hulme Crantage Sproston	85 Wheelock Street, Middlewich (Tel. Middlewich 2165) Welfare Centre—Mon. p.m. 1st. Thurs. p.m. Young Children's Clinic—3rd Wed. p.m. Eye Clinic—3rd Tues. p.m., 1st Tues. a.m. Screening Clinic—2nd, 3rd, 4th & 5th Thurs. p.m. Mother's Union Hut, Holmes Chapel Welfare Centre—2nd & 4th Tues. p.m.

CIVIL PARISHES

CENTRES & CLINICS

**DISTRICT No. 14b,**  
Miss A. Gratrix,  
85, Wheelock Street,  
Middlewich  
(Tel. Middlewich 2165)

Northwich U.D.  
(Northwich BB Ward)  
Bostock  
Davenham  
Stanthorne  
Tetton  
Wimboldsley

85 Wheelock Street, Middlewich  
Screening Clinic—2nd, 3rd, 4th & 5th  
Thurs. p.m.  
Darland House, Winnington Hill, Northwich  
Screening Clinic—1st Thurs. p.m.  
Methodist Church, Davenham:  
Welfare Centre—1st & 3rd Mon. p.m.  
Farm of the Good Shepherd Leftwich  
Welfare Centre—2nd & 4th Tues. p.m.

**DISTRICT No. 15.**  
Miss E. M. Scott,  
54, Highfield Drive,  
Nantwich

Nantwich U.D.  
(Barony and Wellington Wards)  
Alraham  
Aston-juxta  
Mondrum  
Calveley  
Cholmondeston  
Church Minshull  
Henhull  
Leighton  
Minshull Vernon  
Poole  
Wardle  
Wettenhall  
Woolstanwood  
Worleston

The Dowery, Barker Street, Nantwich  
(Tel. Nantwich 65360)  
Welfare Centre—Thurs. p.m.  
Preparation Class—Mon. p.m.  
M.A. Clinic—2nd Mon. a.m.  
Screening Clinic—1st Fri. p.m.

**DISTRICT No. 16a**  
Mrs. F. G. Kirkham,  
St. Bees,  
Marsh Lane,  
Nantwich

Nantwich U.D. (Weaver Ward)  
Acton  
Baddiley  
Baddington  
Brindley  
Broomhall  
Bulkeley  
Bunbury  
Burland  
Cholmondeley  
Chorley  
Edleston  
Faddiley  
Haughton  
Hurleston  
Peckforton  
Ridley  
Sound  
Spurstow  
Stoke  
Woodcott

The Dowery, Barker Street, Nantwich  
Welfare Centre—2nd & 4th Thurs. p.m.  
Young Children's Clinic—1st Thurs' a.m.  
Screening Clinic—2nd Fri. p.m.  
Oddfellows Hall, Bunbury  
Welfare Centre—1st and 3rd Fri. p.m.

**DISTRICT No. 16b.**  
Miss D. Griffiths,  
East View,  
Little Heath,  
Audlem,  
Crewe  
(Tel. Audlem 443)

Audlem  
Austerston  
Batherton  
Blakenhall  
Bridgemere  
Buerton  
Checkley-cum-  
Wrinehill  
Chorlton  
Coole Pilate  
Dodcott-cum-  
Wilkesley  
Doddington  
Hankelow  
Hatherton  
Hough  
Hunsterson  
Lea  
Marbury  
Newhall  
Norbury  
Stapeley  
Walgherton  
Wirswall  
Wrenbury  
Wybunbury

The Dowery, Barker Street, Nantwich  
Screening Clinic—1st and 3rd Fri. p.m.  
Eye Clinic—5th Tues. a.m. & p.m.  
2nd, 3rd 4th and 5th Thurs.  
a.m.  
Parish Hall, Wrenbury  
Welfare Centre—2nd and 4th Wed. p.m.  
Methodist Church Hall, Audlem  
Welfare Centre—1st and 3rd Tues. p.m.

**DISTRICT No. 16c**  
Mrs. R. Davies,\*  
84, Church Lane,  
Wistaston, Crewe

Willaston  
Wistaston

Stalbridge Road, Crewe  
Paediatric Clinic—1st Fri. p.m.  
Memorial Hall, Church Lane, Wistaston  
Welfare Centre—2nd and 4th Wed. p.m.

**DISTRICT No. 17a**  
Mrs. A. Clayton,  
The Dowery,  
Barker Street,  
Nantwich  
(Tel. Nantwich 65360)

Nantwich U.D. (Willaston Ward)  
Barthomley  
Crewe (Rural)  
Basford  
Haslington  
Rope  
Shavington-  
cum-Gresty  
Warmingham  
Weston

The Dowery, Barker Street, Nantwich  
Welfare Centre—1st and 3rd Thurs. p.m.  
Screening Clinic—2nd Fri. p.m.  
M.A. Clinic—4th Mon. a.m.  
Yoxall Institute, Haslington  
Welfare Centre—1st and 3rd Tues. p.m.  
Church Hall, Shavington  
Welfare Centre—2nd and 4th Tues. p.m.

**DISTRICT No. 17b**  
Miss A. Mullany,  
54, Highfield Drive,  
Nantwich

Crewe M.B.  
(South District)

Stalbridge Road, Crewe (Tel. Crewe 2450)  
Welfare Centre—Mon. p.m. Wed. a.m.  
M.A. Clinic—Tues. a.m.  
Screening Clinic—1st, 3rd & 5th Wed. p.m.  
Eye Clinic—2nd & 4th Fri. p.m.  
Young Children's Clinic—3rd Fri. p.m.  
Preparation Class—Thurs. p.m.

Mrs. F. E. Strowbridge,  
60, Sandilands Park,  
Wistaston, Crewe

Crewe M.B.  
(Central District)

Stalbridge Road, Crewe  
Welfare Centre—1st, 3rd & 5th Mon. p.m.  
Wed. a.m.  
Young Children's Clinic—3rd Fri. p.m.  
Screening Clinic—1st, 3rd, & 5th Wed. p.m.  
Eye Clinic—2nd & 4th Fri. p.m.  
Preparation Class—Thurs. p.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

**District No. 17b.—cont.**

Miss M. E. Slack,  
2, Leighton Street,  
Crewe

Crewe M.B.  
(S.W. District)

Stalbridge Road, Crewe  
Welfare Centre—2nd and 4th Mon. p.m.  
Paediatric Clinic—1st Fri. p.m.  
Preparation Class—Thurs. p.m.  
Screening Clinic—1st, 3rd & 5th Wed.  
p.m.

Mrs. L. M. D. Atkinson,\*§  
12, Crewe Road,  
Shavington,  
Crewe

Crewe M.B.  
(East District)

Minshull New Road, Crewe  
Welfare Centre—1st, 3rd & 5th Tues p.m.

Ludford Street, Crewe (Tel. Crewe 2376)  
Screening Clinic—2nd Wed. p.m.

Miss E. Broom,\*§  
10, Clifton Avenue,  
Crewe

Crewe M.B.  
(North Central District)

Ludford Street, Crewe  
Paediatric Clinic—3rd Fri. p.m.  
Screening Clinic—4th Wed. p.m.  
Eye Clinic—1st, 2nd & 5th Fri. p.m.  
4th & 5th Wed. a.m.

Miss J. S. Reid,\*§  
199, Edleston Road,  
Crewe

Crewe M.B.  
(West & Coppenhall District)

Ludford Street, Crewe  
E.N.T. Clinic—4th Tues. a.m.  
Screening Clinic—2nd & 4th Wed. p.m.  
Minshull New Road, Crewe  
Welfare Centre—1st, 3rd & 5th Tues. p.m.

\*These Health Visitors also attend on rota the three other Clinics listed opposite.

Ludford Street, Crewe  
Welfare Centre—Thurs. a.m. and p.m.  
Ante-Natal Clinic—Mon. and Tues. p.m.  
M.A. Clinic—Mon. a.m.  
Young Children's Clinic—4th Fri. p.m.

§These Health Visitors attend this Clinic on rota

Ludford Street, Crewe  
Young Children's Clinic—1st Fri. p.m.

**DISTRICT No. 17c.**

Miss H. M. Furness,  
4, Harpur Crescent,  
Alsager,  
Stoke-on-Trent

Alsager U.D.  
(except East Ward)  
Betchton  
Hassall

15 Centre Court, Alsager (Tel. Alsager 628)  
Preparation Class—Thurs. p.m.  
M.A. Clinic—1st Fri. a.m.  
Screening Clinic—1st and 3rd Mon. p.m.  
Eye Clinic—1st and 3rd Wed. a.m.  
St. Mary's Sunday School, Alsager  
Welfare Centre—Tues. p.m.

**DISTRICT No. 18a.**

Mrs. V. E. Fletcher,  
88, Church Street,  
Frodsham,  
Warrington

Grappenhall  
(North and  
Thelwall Wards)

Springfield Avenue, Grappenhall  
(Tel. Warrington 61488)  
Welfare Centre—Tues. p.m.  
Preparation Class—alt. Wed. p.m.

Mrs. E. C. Richmond,  
Windrush, Delph Lane,  
Daresbury,  
Warrington

Antrobus  
Appleton

Grappenhall  
(South Ward)  
Stretton

65 Whitefield Road, Stockton Heath  
Screening Clinic—as required  
Welfare Centre—Mon. p.m.  
Young Children's Clinic—1st Fri. p.m.

Springfield Avenue, Grappenhall  
Welfare Centre—Tues. p.m.  
Screening Clinic—2nd & 4th Fri. p.m.  
Preparation Class—alt. Wed. p.m.

**DISTRICT No. 18b.**

Miss M. Newbold,  
62, Fairfield Gardens,  
Stockton Heath,  
Warrington

Stockton Heath  
Walton

65 Whitefield Road, Stockton Heath  
(Tel. Warrington 62025)  
Welfare Centre—Mon. p.m.  
Young Children's Clinic—3rd Fri. p.m.  
Screening Clinic—As required  
Eye Clinic—4th Tues. p.m.  
Preparation Class—Wed. p.m.



CIVIL PARISHES

CENTRES & CLINICS

<p><b>DISTRICT No. 19</b> Mrs. J. V. Sasson, 324, Moorside Road, Flixton, Urmston, Manchester</p>	<p>Lymm U.D. High Legh</p>	<p>29 Eagle Brow, Lymm (Tel. Lymm 277) Welfare Centre—Tues. p.m. Young Children's Clinic— 2nd &amp; 4th Wed. p.m. Midwives Clinic—Thurs. p.m. M.A. Clinic—Wed. a.m. Screening Clinic—2nd &amp; 4th Mon. p.m. Eye Clinic—1st Thurs. a.m. 2nd and 5th Thurs. p.m. Immunisation Clinic—3rd Thurs. a.m. Women's Institute, Sandy Lane, Heatley Welfare Centre—1st and 3rd Wed. p.m.</p>
<p><b>DISTRICT No. 20.</b> Mrs. J. M. Taylor, 70, Chapel Road, Sale, Cheshire</p>	<p>Sale M.B. (St. Martin's NS &amp; Mersey NP Wards)</p>	<p>Meadway, Sale (Tel. Pyramid 2950) Welfare Centre—Tues. p.m. Brookes Institute, Sale Welfare Centre—Fri. p.m. 70 Chapel Road, Sale (Tel. Sale 1329) Young Children's Clinic—3rd Mon. p.m. (even months)</p>
<p>Mrs. E. Heywood,*† 125, Norris Road, Sale, Cheshire</p>	<p>Sale M.B. (Sale Moor Ward)</p>	<p>Community Centre, Sale Moor Welfare Centre—Thurs. p.m. 70 Chapel Road, Sale</p>
<p>Mrs. M. Holmes* 60, Broad Road, Sale, Cheshire</p>	<p>Sale M.B. (St. Anne's NB &amp; St. John's Wards)</p>	<p>M.A. Clinic—Wed. a.m. 70 Chapel Road, Sale Welfare Centre—Tues. and Thurs. p.m. Ante and Post Natal Clinic—Wed. p.m.</p>
<p>Miss K. L. Marsden, 6, Burford Close, Wilmslow, Cheshire</p>	<p>Sale M.B. (St. Mary's NN and Brooklands ND and NE Wards)</p>	<p>Meadway, Sale Welfare Centre—Tues. p.m. Eye Clinic—2nd &amp; 4th Mon. a.m. Screening Clinic—1st &amp; 3rd Thurs. a.m.</p>
<p>Mrs. A. Metcalfe*† 10, Ravenwood Drive, Hale Barns Altrincham</p>	<p>Sale M.B. (St. Paul's, St. Anne's (NA &amp; NC) &amp; Mersey (NQ &amp; NR) Wards)</p>	<p>70 Chapel Road, Sale Welfare Centre—Tues. and Thurs. p.m.</p>
<p>Mrs. M. M. Kerbyson, 2, Burnside Drive, Manchester, 9.</p>	<p>Sale M.B. (St. Martin's NT &amp; NU and St. Mary's NO Wards)</p>	<p>Brookes Institute, Sale Welfare Centre—Fri. p.m. Meadway, Sale Welfare Centre—Tues. p.m. 70 Chapel Road, Sale Eye Clinic—1st, 3rd &amp; 5th Mon. a.m. Screening Clinic—Tues. a.m. Sun-ray Clinic—Mon. and Fri. p.m. Preparation Class—Wed. p.m.</p>
<p>*These Health Visitors also attend on rota the Clinic opposite.</p>		
<p>† do.</p>		
<p><b>DISTRICT No. 21a.</b> Miss A. Milvenan, Top Flat, 1, Hawthorn Road, Hale, Altrincham</p>	<p>Hale U.D. (North, Central &amp; West Wards) Ashley Bowdon U.D.</p>	<p>9 Broomfield Lane, Hale (Tel. Alt. 4653) Welfare Centre—Wed. p.m. Young Children's Clinic—4th Tues. p.m. Eye Clinic—3rd, 4th &amp; 5th Wed. a.m. Vaccination and Immunisation Clinic— 1st Fri. a.m. Screening Clinic—2nd &amp; 4th Fri. a.m. Unitarian Schoolroom, Hale Barns Welfare Centre—1st &amp; 3rd Thurs. a.m. and p.m. Screening Clinic—4th Thurs. a.m. Methodist Schoolroom, Bowdon Welfare Centre—2nd &amp; 4th Thurs. p.m. Unitarian Schoolroom, Hale Barns Welfare Centre—1st &amp; 3rd Thurs. a.m. and p.m. Screening Clinic—4th Thurs. a.m. 9 Broomfield Lane, Hale Welfare Centre—Wed. p.m. Young Children's Clinic—4th Tues. p.m. (even months) Screening Clinic—2nd &amp; 4th Fri. a.m. Polio Vaccination Clinic—1st Fri. a.m. Eye Clinic—2nd Thurs. p.m. Ante-Natal Clinic—Fri. p.m.</p>
<p>Mrs. E. G. Morrison, 21, Thorley Lane, Timperley, Altrincham</p>	<p>Hale U.D. (Hale Barns Ward) Ringway Rostherne Tatton</p>	
<p><b>DISTRICT No. 21b</b> Miss M. Lea, 18, Oughtrington Lane, Lymm Cheshire</p>	<p>Agden Bollington Carrington Partington (part) Dunham Massey Millington</p>	<p>Central Road, Partington (Tel. Irlam 2409) Welfare Centre—Mon. and Thurs. p.m. Preparation Class—Tues. p.m. Screening Clinic—4th Fri. a.m. and 4th Wed. p.m. Ante-Natal Clinic—Fri. p.m. Young Children's Clinic—3rd Wed. p.m.</p>

CIVIL PARISHES

CENTRES & CLINICS

District No. 21b—cont.

Miss B. J. Hickson,  
Flat No. 1,  
Fernside,  
Dunham Road,  
Altrincham

Partington (part)  
Warburton

Central Road, Partington  
Welfare Centre—*Mon. & Thurs. p.m.*  
Ante-Natal Clinic—*Fri. p.m.*  
Screening Clinic—*4th Fri. a.m.*  
*4th Wed. p.m.*  
Young Children's Clinic—*1st Wed. p.m.*  
Preparation Class—*Tues. p.m.*  
Eye Clinic—*1st & 2nd Wed. a.m.*  
Immunisation Clinic—*1st Tues. a.m.*

Mrs. F. Pickering,  
16, Denstone Ave.,  
Davyhulme, Urmston,  
Manchester  
(Tel Urmston 7246)

Altrincham M.B.  
(Dunham & North Wards)

12 The Mount, Altrincham (Tel. Alt. 5323)  
Welfare Centre—*Mon. and Wed. p.m.*  
Young Children's Clinic—*2nd Thurs p.m.*  
(even months)  
M.A. Clinic—*Mon. a.m. (even months)*  
Screening Clinic—*1st and 3rd Tues a.m.*

Mrs. K. M. Connor,  
6, The Mount,  
Altrincham

Altrincham M.B.  
(East, Central & South West  
Wards)

12 The Mount, Altrincham  
Welfare Centre—*Mon. & Wed. p.m.*  
Young Children's Clinic—*2nd Thurs p.m.*  
(odd months)  
M.A. Clinic—*Mon. a.m. (odd months)*  
Screening Clinic—*1st & 3rd Tues. a.m.*  
Vacc. and Immunisation Clinic—*2nd Wed. a.m.*

Miss M. Owen,  
15, Roughy Gardens,  
Brownley Green,  
Wythenshawe,  
Manchester 22

Altrincham M.B.  
(Timperley No. 1 & No. 3 Wards)

145 Park Road, Timperley (Tel. Sale 6639)  
Welfare Centre—*Tues. & Thurs. p.m.*  
Young Children's Clinic—*1st Thurs. a.m.*  
Ante-Natal Clinic—*2nd & 4th Wed. p.m.*  
Preparation Class—*Wed. p.m.*  
Screening Clinic—*2nd & 4th Thurs. a.m.*  
65 Briarfield Road, Broomwood, Timperley  
(Tel. Ringway 4339)

Mrs. F. M. Whitworth,  
5 Mayfield Close,  
Timperley  
Altrincham

Altrincham M.B.  
(Timperley No. 4. (AU, AV and  
AW) Ward)

Screening Clinic—*2nd & 4th Wed. a.m.*  
145 Park Road, Timperley  
Welfare Centre—*Thurs. p.m.*  
Ante-Natal Clinic—*2nd & 4th Wed. p.m.*  
Preparation Class—*Wed. p.m.*  
Screening Clinic—*2nd & 4th Thurs. a.m.*  
65 Briarfield Road, Broomwood, Timperley  
Welfare Centre—*Mon. p.m.*  
Screening Clinic—*2nd & 4th Wed. a.m.*  
Midwives Clinic—*2nd & 4th Fri. p.m.*  
145 Park Road, Timperley  
Welfare Centre—*Tues. a.m. & p.m.*  
Young Children's Clinic—*1st Thurs. a.m.*  
(even months)  
Ante-Natal Clinic—*2nd & 4th Wed. p.m.*  
M.A. Clinic—*1st & 3rd Wed. a.m.*  
Preparation Class—*Wed. p.m.*  
Screening Clinic—*4th Thurs. a.m.*

Miss E. Cottrell,  
9, Carrington Lane,  
Ashton-on-Mersey  
Sale,  
Cheshire

Altrincham M.B.  
(Timperley No. 2 & No. 4 (AS &  
AT) Wards)

ISTRICT No. 22a

Miss C. M. Marsh,  
23, King's Close,  
Wilmslow,  
Cheshire

Alderley Edge U.D.  
Wilmslow U.D. Chorley  
(Hough & Morley Great Warford  
Wards) Marthall  
Mobberley

3 Alma Lane, Wilmslow (Tel. Wilmslow 2635).  
Welfare Centre—*Thurs. p.m.*  
Screening Clinic—*Alt. Fri. a.m.*  
Church Institute, Alderley Edge  
Welfare Centre—*Fri. p.m.*  
Victory Hall, Mobberley  
Welfare Centre—*Alt. Tues. p.m.*

ISTRICT No. 22b

Miss K. Halstead,  
11, Park Road,  
Cheadle  
Cheshire

Wilmslow U.D.  
(Dean Row, pt. i., Handforth  
& Styal Wards)

The Green, Wilmslow Road, Handforth  
(Tel. Wilmslow 5767)  
Welfare Centre—*2nd & 4th Mon. p.m.*  
Young Children's Clinic—*1st Wed. p.m.*  
Preparation Class—*Tues. p.m.*  
Screening Clinic—*3rd Fri. a.m.*  
3 Alma Lane, Wilmslow  
Screening Clinic—*1st, 2nd, 4th & 5th  
Fri. a.m.*

## CIVIL PARISHES

## CENTRES &amp; CLINICS

<b>DISTRICT No. 22c</b> Miss D. M. Bowers, 1, Albany Road, Wilmslow, Cheshire	Wilmslow U.D. (Dean Row, pt. ii, and Fulshaw Wards)	3 Alma Lane, Wilmslow Welfare Centre— <i>Thurs. p.m.</i> Young Children's Clinic— <i>2nd Wed. p.m.</i> M.A. Clinic— <i>Thurs. 9—10 a.m.</i> Screening Clinic— <i>1st Fri. a.m.</i> Eye Clinic— <i>3rd Tues. a.m.</i> Parish Hall, Barlow Road, Lacey Green Welfare Centre— <i>1st &amp; 3rd Mon. p.m.</i>	
<b>DISTRICT No. 23a</b> Miss N. R. Williams, Ivy Cottage, Snelson, Chelford, Macclesfield Tel. Chelford 489)	Bosley Chelford Eaton Gawsworth  Henbury Hulme Walfield Marton Mottram-St.- Andrew North Rode	Nether Alderley Over Alderley Prestbury Siddington  Somerford Somerford Booths Snelson Swettenham Twemlow Withington	Wellington Road, Bollington (Tel. Bollington 2376) Welfare Centre— <i>2nd &amp; 4th Thurs. p.m.</i> Prestbury Welfare Centre— <i>1st &amp; 3rd Wed. p.m.</i> Screening Clinic— <i>Tues. a.m. (except 1st)</i>
<b>DISTRICT No. 23b.</b> Miss J. Samuels, 11, Northgate Avenue, Macclesfield	Macclesfield M.B. (Central District)	52 Bridge Street, Macclesfield (Tel. Macc. 5501) Welfare Centre— <i>Mon. p.m. and 2nd &amp; 4th Thurs. a.m.</i> Young Children's Clinic— <i>4th Tues. p.m.</i> Ante-Natal Clinic— <i>1st &amp; 3rd Wed. p.m.</i> Screening Clinic— <i>1st &amp; 3rd Wed. a.m.</i> Hurdsfield House, Macclesfield (Tel. Macc. 3282) Preparation Class— <i>2nd &amp; 4th Wed. p.m.</i> Sanders Square, Macclesfield (Tel. Macc. 3800) Welfare Centre— <i>Fri. p.m.</i> Young Children's Clinic— <i>2nd Thurs. p.m.</i> Ante-Natal Clinic— <i>4th Wed. p.m.</i> Preparation Class— <i>1st, 3rd &amp; 5th Mon. p.m.</i> Screening Clinic— <i>4th Wed. a.m.</i> Immunisation Clinic— <i>4th Thurs. p.m.</i>	
Miss F. M. Yates, 17, Newhall Street, Macclesfield	Macclesfield M.B. (South West District)	52 Bridge Street, Macclesfield Ante-Natal Clinic— <i>1st Wed. p.m.</i> Screening Clinic— <i>1st Wed. a.m.</i> Hurdsfield House, Macclesfield Ante-Natal Clinic— <i>2nd Wed. p.m.</i> Hurdsfield House, Macclesfield Welfare Centre— <i>Thurs. p.m.</i> Young Children's Clinic— <i>1st Tues. p.m.</i> Ante-Natal Clinic— <i>2nd Tues. p.m.</i> Preparation Class— <i>1st Wed. p.m.</i> Screening Clinic— <i>2nd Wed. a.m.</i> Immunisation Clinic— <i>3rd Tues. p.m.</i> Sanders Square, Macclesfield Ante-Natal Clinic— <i>4th Wed. p.m.</i> Screening Clinic— <i>4th Wed. a.m.</i>	
Miss A. Grills, Springfield (Flat 3), Byron's Lane, Macclesfield	Macclesfield M.B. (North East District)	52 Bridge Street, Macclesfield Ante-Natal Clinic— <i>3rd Wed. p.m.</i> Welfare Centre— <i>Mon. p.m. and 1st &amp; 3rd Thurs. a.m.</i> Ante-Natal Clinic— <i>1st &amp; 3rd Wed. p.m.</i> Screening Clinic— <i>1st Wed. a.m.</i> Pierce Street, Macclesfield (Tel. Macc. 3053) M.A. Clinic— <i>Tues. &amp; Fri. a.m.</i> E.N.T. Clinic— <i>3rd Mon. a.m.</i> Heyes Hall, Weston Welfare Centre— <i>Fri. p.m.</i> Hurdsfield House, Macclesfield Welfare Centre— <i>Thurs. p.m.</i> Ante-Natal Clinic— <i>2nd Wed. p.m.</i> Preparation Class— <i>3rd Wed. p.m.</i> Screening Clinic— <i>2nd Wed. a.m.</i> Pierce Street, Macclesfield Eye Clinic— <i>1st Mon. p.m., 1st, 3rd &amp; 4th Tues p.m. 4th Thurs. a.m.</i> Sanders Square, Macclesfield Ante-Natal Clinic— <i>4th Wed. p.m.</i> 52 Bridge Street, Macclesfield Screening Clinic— <i>3rd Wed. a.m.</i>	
Miss T. Martin, 52, Bridge Street, Macclesfield	Macclesfield M.B. (North West District)		
Miss W. G. Grimstone, Rockville, Cote Green Road, Marple Bridge	Macclesfield M.B. (South East District)		
There is also a part-time School Nurse, Mrs. P. Swindells, 63, Byron Street, Macclesfield			

## CIVIL PARISHES

## CENTRES &amp; CLINICS

<b>DISTRICT No. 24a</b>	Sandbach U.D. (W. & N. Wards) Bradwall Elton	Platt Avenue, Middlewich Road, Sandbach (Tel. Sandbach 970) Welfare Centre— <i>Tues. p.m. &amp; 1st &amp; 3rd Tues. a.m.</i> Preparation Class— <i>Alt. Fri. p.m.</i> Screening Clinic— <i>Alt. Wed. p.m.</i> Eye Clinic— <i>2nd, 3rd &amp; 4th Mon. p.m.</i> Immunisation Clinic— <i>1st Wed. p.m.</i> ( <i>Alt. months</i> )
<b>DISTRICT No. 24b</b> Mrs. M. P. Potts, 9, Millfields, Queen's Drive, Nantwich	Sandbach U. D. (E. Ward) Arclid Brereton	Platt Avenue, Middlewich Road, Sandbach Welfare Centre— <i>Tues. p.m. and 2nd &amp; 4th Tues. a.m.</i> Young Children's Clinic— <i>2nd Fri. a.m.</i> Preparation Class— <i>Alt. Fri. p.m.</i> M.A. Clinic— <i>3rd Fri. a.m.</i> E.N.T. Clinic— <i>4th Wed. a.m.</i> Immunisation Clinic— <i>1st Wed. p.m.</i> ( <i>Alt. months</i> )
<b>DISTRICT No. 25</b> Miss M. Corbishley, 32, Symondley Road, Sutton, Macclesfield  Miss D. Austin, 3, Kingsley Close, Talke Pits, Stoke-on-Trent.	Congleton M.B. (Buglawton & South Wards) Moreton-cum-Alcumlow Newbold Astbury  Congleton M.B. North & West Wards)	Nursery Lane, Congleton (Tel. Congleton 2261) Welfare Centre— <i>Mon. p.m.</i> Young Children's Clinic— <i>2nd Thurs. p.m.</i> Ante-Natal Clinic— <i>Fri. p.m.</i> Screening Clinic— <i>Wed. a.m.</i>  Nursery Lane, Congleton Welfare Centre— <i>Mon. p.m.</i> M.A. Clinic— <i>Fri. a.m.</i> Screening Clinic— <i>Wed. a.m.</i> E.N.T. Clinic— <i>4th Thurs. p.m.</i> Eye Clinic— <i>2nd Fri. p.m.</i>  Nursery Lane, Congleton Immunisation Clinic— <i>1st Thurs. a.m.</i> Young Children's Clinic— <i>2nd Thurs. p.m.</i> War Memorial Hospital, Congleton Ante-Natal Clinic— <i>1st &amp; 3rd Wed. p.m.</i>
The Health Visitors take the Clinics listed opposite, alternately.		
<b>DISTRICT No. 25b</b> Miss B. Richardson, The White House, 132, Crewe Road, Alsager, Stoke-on-Trent  (Tel. Alsager 395)	Smallwood Odd Rode Church Lawton Alsager (East Ward)	Methodist Sunday School, Mow Cop Welfare Centre— <i>1st &amp; 3rd Wed. p.m.</i> The Institute, Rode Heath Welfare Centre— <i>2nd &amp; 4th Mon. p.m.</i> Village Hall, Scholar Green Welfare Centre— <i>2nd &amp; 4th Wed. p.m.</i> 15 Centre Court, Alsager Preparation Class— <i>1st, 2nd, 4th &amp; 5th Thurs. p.m. 3rd Fri. p.m.</i> Screening Clinic— <i>1st &amp; 3rd Mon. p.m.</i> E.N.T. Clinic— <i>3rd Thurs. p.m.</i>
<b>DISTRICT No. 26a</b> Mrs. M. B. Batty, 14, Parrswood Court, Manchester, 20 (Tel. Didsbury 5429)	Cheadle and Gatley U.D. (Adswood Ward)	All Saints' Parish Room, Cheadle Hulme Welfare Centre— <i>Tues. p.m.</i> Screening Clinic— <i>2nd Tues. a.m.</i> Eye Clinic— <i>2nd &amp; 3rd Thurs. a.m.</i> Young Children's Clinic— <i>3rd Mon. p.m.</i> Mission Hall, Adswood Welfare Centre— <i>2nd &amp; 4th Mon. p.m.</i>  Brookfield, Wilmslow Road, Cheadle E.N.T. Clinic— <i>4th Wed. a.m.</i>
<b>DISTRICT No. 26b.</b> Miss W. C. Heron, 83, Turves Road, Cheadle Hulme Stockport	Cheadle and Gatley U.D. (Cheadle East and West Wards)	Brookfield, Wilmslow Road, Cheadle (Tel. Gatley 6290) Welfare Centre— <i>Tues. p.m.</i> Young Children's Clinic— <i>3rd Wed. p.m.</i> M.A. Clinic— <i>1st &amp; 2nd Mon. a.m.</i> Screening Clinic— <i>Wed. a.m.</i> Eye Clinic— <i>Tues. a.m.</i>
<b>DISTRICT No. 26c</b> Miss N. Heenan, 146, Edgeley Road, Cheadle Heath, Stockport	Cheadle and Gatley U.D. (Gatley and Heald Green (C.E.) Ward)	Brookfield, Wilmslow Road, Cheadle Ante-Natal Clinic— <i>Mon. p.m.</i> Y.M.C.A. Headquarters, Gatley Welfare Centre— <i>Thurs. p.m.</i> Young Children's Clinic— <i>4th Wed. p.m.</i> Screening Clinic— <i>1st Tues. a.m.</i>

## CIVIL PARISHES

## CENTRES &amp; CLINICS

**DISTRICT No. 26d**

Miss I. C. G. Harrison,  
Flat D, 21a, Moseley Rd.  
Cheadle Hulme,  
Stockport  
(Tel. Hulme Hall 1883)

Cheadle and Gatley U.D.  
(Cheadle Hulme (N) Ward)

St. Andrew's Parish Hall, Orrishmere Estate  
Cheadle Hulme  
Welfare Centre—2nd & 4th Mon. p.m.  
Screening Clinic—2nd Tues. a.m.  
Brookfield, Wilmslow Road, Cheadle  
Screening Clinic—Wed. a.m.

**DISTRICT No. 26e,**

Mrs. M. Rogers,  
19, Ack Lane East,  
Bramhall,  
Stockport

Cheadle and Gatley U.D.  
(Heald Green Ward except CE.)

R.C. Church Room, Finney Lane, Heald  
Green  
Welfare Centre—Thurs. p.m.  
Brookfield, Wilmslow Road, Cheadle  
Young Children's Clinic—5th Wed. p.m.  
Y.M.C.A. Headquarters, Gatley  
Screening Clinic—1st Tues. a.m.

**DISTRICT No. 26f**

Mrs. M. McLeod,  
1, Brampton Road,  
Cheadle,  
Cheshire.

Cheadle and Gatley U.D.  
(Cheadle Hulme (S) Ward)

**DISTRICT No. 27a.**

Miss G. M. Bullough,  
4, Belvoir Avenue,  
Hazel Grove,  
Stockport

Hazel Grove and Bramhall U.D.  
(North Ward)

253 London Road, Hazel Grove  
(Tel. Stepping Hill 3842/3)  
Ante-Natal Clinic—1st & 3rd Wed. p.m.  
Screening Clinic—4th Mon. p.m.  
Civic Hall, Hazel Grove  
Welfare Centre—Tues. a.m. & p.m.  
Young Children's Clinic—1st Tues. am.

**DISTRICT No. 27b.**

Mrs. B. E. Crosby,  
27, Earle Road,  
Bramhall,  
Stockport.  
(Tel. Bramhall 1776)

Hazel Grove and Bramhall U.D.  
(Woodford and South Wards)

Methodist Sunday School, Bramhall  
Welfare Centre—1st & 3rd Mon. p.m.  
Screening Clinic—1st Thurs. p.m.  
(odd months)  
Brookdale Club, Bridge Lane, Bramhall  
Welfare Centre, 2nd & 4th Fri. p.m.  
Screening Clinic—1st Fri. p.m. (even months)  
Civic Hall, Hazel Grove  
M.A. Clinic—2nd Tues. a.m.  
Welfare Centre—4th Tues. a.m.  
253 London Road, Hazel Grove  
Screening Clinic—3rd Fri. p.m.

**DISTRICT No. 27c.**

Miss A. Jackson,  
177, Park Lane,  
Poynton.

Hazel Grove and Bramhall U.D.  
(East Ward)

253 London Road, Hazel Grove  
Screening Clinic—3rd Fri. p.m.  
E.N.T. Clinic—1st Fri. a.m.  
Eye Clinic—1st & 4th Thurs. a.m.  
Civic Hall, Hazel Grove  
Welfare Centre—1st & 3rd Tues. a.m. and  
Tues. p.m.  
Young Children's Clinic—1st Tues. a.m.

**DISTRICT No. 28.**

Miss M. R. Adamson,  
2, Sugar Lane,  
Rainow,  
Macclesfield

Bollington U.D. Rainow  
Hurdsfield Sutton  
Macclesfield Wildboarclough  
Forest Wincle

Wellington Road, Bollington (Tel. Boll. 2376)  
Welfare Centre—2nd & 4th Thurs. p.m.  
Rainow Welfare Centre—  
1st & 3rd Wed. p.m.  
M.A. Clinic—1st Tues. a.m.  
Screening Clinic—Tues. a.m. (except 1st-)  
Eye Clinic—2nd Tues. p.m.  
Sanders Square, Macclesfield  
Sutton Welfare Centre—1st & 3rd Thurs.  
p.m.

**DISTRICT No. 29a.**

Miss M. Berrisford,  
59, Reddish Vale Road,  
Reddish,  
Stockport  
(Tel. Stockport 5683)

Bredbury and Romiley U.D.  
(Bredbury N. & S. Wards)

Lower Bent's Lane, Bredbury (Tel. Woodley  
2892)  
Welfare Centre—Tues. p.m.  
Young Children's Clinic—1st Thurs. p.m.  
Ante-Natal Clinic—2nd & 4th Wed. p.m.  
Screening Clinic—1st Mon. p.m.  
Eye Clinic—3rd, 4th & 5th Thurs. p.m.  
Leyfield Avenue, Romiley  
Screening Clinic—4th Tues. a.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

**STRICT No. 29b**

Mrs. A. D. Law,  
23, Lynton Drive,  
Andrew Lane,  
High Lane,  
Stockport

Bredbury and Romiley U.D.  
(Romiley, E. & W. Compstall  
and Woodley Wards)

Leyfield Avenue, Romiley (Tel. Woodley 2891)  
Welfare Centre—Wed. a.m. & Thurs. p.m.  
Young Children's Clinic—2nd Thurs. a.m.  
Preparation Class—Tues. p.m.  
Screening Clinic—4th Tues. a.m.  
Immunisation Clinic—1st Thurs. a.m.  
Lower Bent's Lane, Bredbury  
Screening Clinic—1st Mon. p.m.

**STRICT No. 29c**

Miss S. E. Howarth\*,  
48, Wilshaw Grove,  
Ashton-under-Lyne

Stalybridge M.B.  
(Polling districts GB, GC, GF)

Mechanics' Institute, Stalybridge  
(Tel. STA 2304)  
Welfare Centre—Wed. p.m.  
Ante and Post Natal Clinic—2nd, 3rd & 4th  
Thurs. p.m.  
Eye Clinic—2nd, 3rd & 4th Tues. a.m.

Miss D. P. Flint\*,  
North View,  
New Mills Road,  
Birch Vale,  
Stockport

Stalybridge M.B.  
(Polling districts FA, FC GA,  
GB)

Huddersfield Road, Millbrook, Stalybridge  
(Tel. STA 2544)  
Welfare Centre—Mon. & Tues. p.m.  
Preparation Class—Wed. p.m.  
Mechanics' Institute, Stalybridge  
Screening Clinic—Tues. p.m.  
Ante and Post-Natal Clinic—2nd, 3rd and  
4th Thurs. p.m.

Miss M. E. Mackenzie\*,  
33, Thorn Road  
Bramhall,  
Stockport

Stalybridge M.B.  
(Polling districts FB, FE, GE)

Mechanics' Institute, Stalybridge  
Welfare Centre—Tues. p.m.  
Huddersfield Road, Millbrook  
Welfare Centre—Mon. & Tues. p.m.  
Mechanics' Institute, Stalybridge  
Young Children's Clinic—1st Wed. a.m.  
Preparation Class—Alt. Thurs. a.m.  
M.A. Clinic—Mon. a.m.

\*These Health Visitors also attend on rota the other  
Clinics opposite.

**STRICT No. 30**

Miss W. E. Beresford  
87, Manchester Road,  
Tintwistle  
Hyde, Cheshire

Dukinfield M.B.  
(Polling districts AA, AB, AC,  
BB.)

134 King Street, Dukinfield  
(Tel. Ash. 3794)  
Welfare Centre—Wed. & Thurs. p.m.  
Screening Clinic—1st & 3rd Wed. a.m.

Miss. C. Hellings,  
11, Shaw Hall Avenue  
Hyde

Dukinfield M.B.  
(Polling districts AE AF, FD)

134 King Street, Dukinfield  
E.N.T. Clinic—4th Mon. p.m.  
Eye Clinic—1st, 2nd & 4th Fri. p.m.

Mrs. M. Knowles,  
189, Stamford Street,  
Stalybridge

Dukinfield M.B.  
(Polling districts AD, BA)

134 King Street, Dukinfield  
Welfare Centre—Wed. p.m.  
M.A. Clinic—Tues. a.m.  
Screening Clinic—1st & 3rd Wed. a.m.

The Clinic opposite is taken by the three Health Visitors  
in turn.

134 King Street, Dukinfield  
Preparation Class—Mon. p.m.

**STRICT No. 31a.**

Miss D. Wood,  
8, Marina Drive,  
Rose Hill,  
Marple,  
Stockport  
(Tel. Mottram 3235)

Longdendale U.D.  
Tintwistle R.D.

Wedneshough Green, Hollingworth  
(Tel. Mottram 2280)  
Welfare Centre—1st & 3rd Thurs. p.m.  
Midwives Clinic—Tues. p.m.  
M.A. Clinic—Tues. p.m.  
Screening Clinic—3rd Tues. a.m.  
Immunisation Clinic—4th Mon. p.m.  
Christ Church School, Tintwistle  
Welfare Centre—2nd & 4th Thurs. p.m.  
Wesleyan School, Broadbottom  
Welfare Centre—1st & 3rd Wed. p.m.

**STRICT No. 31b.**

Mrs. J. Beaumont\*,  
Homestead,  
Greave Road,  
Romiley,  
Stockport

Hyde M.B.  
(Pt. Godley and Pt. Werneth  
Wards)

Parsonage Street, Hyde (Tel. Hyde 2828)  
Welfare Centre—Wed. p.m.  
Reform Club, Hyde (Tel. Hyde 2689)  
Eye Clinic—1st Tues. a.m., 3rd Fri. p.m.  
Screening Clinic—2nd & 4th Tues. a.m.  
Bayley Hall, Hyde  
Screening Clinic—1st & 3rd Mon. p.m.

Miss E. Evans\*,  
23, Bossington Close,  
Offerton,  
Stockport

Hyde M.B.  
(Newton Ward pt.)

Bayley Hall, Hyde (Tel. Hyde 2265)  
Welfare Centre—Fri. p.m.  
Screening Clinic—1st & 3rd Mon. p.m.

## CIVIL PARISHES

## CENTRES &amp; CLINICS

## District No. 31b—cont.

Mrs E. M. Lowe,\*  
12, Mill Lane,  
Hazel Grove,  
Stockport  
(Tel. Poynton 2665)

Hyde M.B.  
(Pt. Godley and Pt. Newton  
Wards)

Bayley Hall, Hyde  
Welfare Centre—*Tues. p.m.*  
Screening Clinic—*1st & 3rd Mon. p.m.*  
Wedneshough Green, Hollingworth  
Screening Clinic—*3rd Tues. a.m.*

Miss M. Taylor,\*  
20, Priarose Avenue,  
Hyde  
(Tel. Hyde 3207)

Hyde M.B.  
(Werneth Ward, pt.)

Parsonage Street, Hyde  
Welfare Centre—*Mon. & Wed. p.m.*  
Screening Clinic—*2nd & 4th Tues. a.m.*  
Ante-Natal Clinic—*Thurs. p.m.*

\* These health visitors also take on rota the  
clinics opposite.

Reform Club, Hyde  
M.A. Clinic—*Mon. a.m.*

## DISTRICT No. 32a.

Miss B. F. Sherratt,  
Ashdene,  
Leafield Road,  
Disley,  
Stockport  
Tel. Disley 2268)

Marple U.D.  
(Ludworth, Mellor & North  
Wards)

Memorial Park, Stockport Road, Marple  
(Tel. Marple 180)  
Welfare Centre—*Wed. p.m.*  
Young Children's Clinic—*1st Wed. a.m.*  
Preparation Class—*Fri. p.m.*  
M.A. Clinic—*2nd Wed. a.m.*  
Screening Clinic—*4th Wed. a.m.*  
Eye Clinic—*1st 3rd, 4th & 5th Tues. p.m.*  
Methodist Sunday School, Marple Bridge  
Welfare Centre—*2nd & 4th Thurs. p.m.*  
Methodist Sunday School, Mellor  
Welfare Centre—*1st & 3rd Thurs. p.m.*

## DISTRICT No. 32b.

Miss B. Brewster,  
Spout House Farm,  
Strines,  
Stockport  
(Tel. Marple 1494)

Marple U.D.  
(Cent. & South Wards)  
Disley R.D.

Memorial Park, Stockport Road, Marple  
(Tel. Marple 180)  
Welfare Centre—*Wed. p.m.*  
Screening Clinic—*4th Wed. a.m.*  
Village Hall, High Lane  
Welfare Centre—*2nd & 4th Tues. p.m.*  
Gleneil House, Disley (Tel. Disley 62)  
Welfare Centre—*1st & 3rd Tues. p.m.*

## DISTRICT No. 33.

Miss F. E. Kilbourn,  
Edendale,  
Buxton Road,  
Newtown,  
New Mills,  
Stockport

Adlington  
Kettleshulme  
Lyme Handley

Pott Shrigley  
Poynton  
(East Ward)

Park Lane, Poynton (Tel. Poynton 2127)  
Welfare Centre—*Thurs. p.m.*  
Young Children's Clinic—*3rd Tues. p.m.*  
Midwives Clinic—*Alternate Mon. p.m.*  
M.A. Clinic—*3rd Tues. p.m.*  
Screening Clinic—*4th Tues. p.m.*  
E.N.T. Clinic—*Even months, 3rd Wed. p.m.*  
Eye Clinic—*2nd Tues. p.m.*

Miss J. Jolley,  
113, Darley Avenue,  
Chorlton-cum-Hardy,  
Manchester, 21

Poynton  
(Central and West Wards)

Park Lane, Poynton  
Welfare Centre—*Thurs. p.m.*  
Midwives' Clinic—*Mon. p.m. (alternate)*  
E.N.T. Clinic—*Wed. p.m.*  
Eye Clinic—*2nd Tues. p.m.*  
Screening Clinic—*4th Tues. p.m.*

## HOME NURSES (172)

(Those marked \* practise Midwifery)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
on	Miss L. C. Jones*	The Grove, Acton, Nantwich	Nantwich	65571
ington	Mrs. K. A. Dawson*	Butley Hey, London Road, Prestbury, Macclesfield	Prestbury	89360
erley	Mrs. M. Topley*	9, Orchard Crescent, Welsh Row, Nether Alderley	Alderley Edge	2505
erley Edge	Miss M. M. Hatton*	Holly Croft, Row of Trees, Alderley Edge, Cheshire	Alderley Edge	3364
ford	Mrs. D. Mellor*	Nurse's Cottage, Aldford, Chester	Aldford	37
ager	Mrs. E. Weatherall	25, Cresswellshawe Road, Alsager, Stoke on Trent	Alsager	67
inches	Mrs. I. Hall	353, Oldfield Road, Altrincham	Altrincham	0365
	Miss D. Kershaw	61, Harcourt Road, Altrincham	Altrincham	2550
	Mrs. J. Knowles	Flat 2, Oak Dell, Alan Drive, Hale, Altrincham	Ringway	2133
	Mrs. S. J. McGrath	1, Hawthorn Road, Hale, Altrincham	Altrincham	0906
	Mrs. P. A. Spence	327, Oldfield Road, Altrincham	Altrincham	6644
	Mrs. A. Warburton	59, Ashfield Road, Altrincham	Altrincham	0138
ton	Miss M. McClement- Williams*	District Nurse's Home, Smithy Lane, Mouldsworth, Chester	Manley	268
bury	Miss V. Spencer*	Black & White Cottage, Astbury, Congleton	Congleton	3451
ldem	Miss M. H. Hunter*	The Gables, Audlem, Crewe	Audlem	422
nston	Mrs. S. A. Cash*	Cherry Lodge, Beacon Lane, Heswall, Wirral	Heswall	4037
nton	Mrs. S. M. Dorling*	5, Cross Street, Barnton, Northwich	Northwich	4080
row	Miss G. Jones*	Minniffordd, High Street, Tarvin, Chester	Tarvin	240
	Miss B. Walker	Minniffordd, High Street, Tarvin, Chester	Tarvin	240
ington	Mr. E. Cochrane	215, Teehey Lane, Bebington	Mountwood	3516
	Mrs. A. Davies	216, Higher Bebington Road, Higher Bebington, Wirral	Mountwood	1840
	Mrs. I. M. Eden	5, Anscot Avenue, Bebington, Wirral	Rock Ferry	1925
	Miss M. G. Griffiths	10, Kempson Terrace, Bebington	Bromborough	2480
	Mrs. F. E. Harrison	14, Asterfield Avenue, Higher Bebington, Wirral	Rock Ferry	2441
	Mrs. M. R. Heatley	203, Teehey Lane, Bebington	Mountwood	1126
	Mrs. B. Sturdy	79, Townfield Lane, Bebington	Rock Ferry	5341
kerton	Mrs. B. A. Moss*	20, Mill Grove, Bulkeley, Malpas Cheshire	Cholmondeley	217
llington	Miss A. Barlow*	13, Waterhouse Avenue, Bollington, Macclesfield	Bollington	3179
	Mrs. M. M. Brocklehurst*	Sidmere, Dale Brow, Prestbury, Macclesfield	Prestbury	89811
	Mrs. M. Wood	Ingersley Vale Cottages, Bollington Macclesfield	Bollington	3204



## HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Bramhall	Miss A. Curry*	47, Swann Lane, Cheadle Hulme, Stockport	Hulme Hall
	Miss N. D. Entwistle*	81, Ack Lane East, Bramhall, Stockport	Bramhall
	Mr. D. Hornby	126, Moor Lane, Woodford, Bramhall, Stockport	Bramhall
	Mrs. C. M. Renshaw*	33, Lumb Lane, Bramhall Stockport	Bramhall
	Miss K. H. Walsh*	39 Midland Road, Bramhall, Stockport	Bramhall
Bredbury	Mrs. S. A. Christmas	9, Merton Avenue, Bredbury Stockport	Woodley
	Mrs. G. B. Gorick	12, Etherow Avenue, Romiley, Stockport	Marple
	Miss W. Watkins	1, Barker Road, Bredbury, Stockport	Woodley
Bromborough	Miss F. Baughan	10, Greenville Crescent, Bromborough, Wirral	Bromborough
	Mrs. E. Martlew	2, Kelsall Avenue, Eastham, Wirral	Eastham
Buglawton	Miss M. S. Bowman*	4, High Lowe Avenue, Buglawton, Congleton	Congleton
Bunbury	Miss M. P. M. Feehan*	8, Wyche Lane, Bunbury	Bunbury
Burton	Mrs. G. M. Town*	Pear Tree Cottage, Burton, Neston, Wirral	Burton
Cheadle	Mrs. W. Wareing*	6, Waldon Avenue, Cheadle, Cheshire	Gatley
	Miss L. Broadhurst	22, Ravenoak Road, Cheadle Hulme, Stockport	Hulme Hall
	Mrs. H. M. Jackson	44, Cheadle Road, Cheadle Hulme, Stockport	Hulme Hall
Cheadle Hulme	Miss C. Maher*	58, Ladybridge Road, Cheadle Hulme, Stockport	Hulme Hall
	Mrs. V. Marshall	53, Cheadle Road, Cheadle Hulme, Stockport	Hulme Hall
	Mrs. F. M. Pierlejewska	41, Earle Road, Bramhall, Stockport	Bramhall
Chelford	Mrs. E. Gornall*	9, Robin Lane, Chelford, Macclesfield,	Chelford Relie
Cholmondeley	Miss M. Brocklehurst*	Nurse's Cottage, Bickley Moss, Whitchurch	Cholmond- eley
Combermere	Miss W. A. George*	1, Council Houses, Newhall Lane, Aston, Nantwich	Aston (Nantwich)
Congleton	Miss B. Clinch	24, The Westlands, Congleton	Congleton
Crewe	Mrs. E. M. Bailey	27, Franklyn Avenue, Crewe	Crewe
	Mrs. L. Crawford	11, Stanhope Avenue, Crewe	Crewe
	Miss J. Sewell	Flat 4, Elm Terrace; Crewe	Crewe
	Mrs. H. M. Shaw	9, Buxton Avenue, Crewe	Crewe
	Miss M. P. Supple	199, Edleston Road, Crewe	Crewe
Daresbury	Miss G. Roberts*	Delph Cottage, Daresbury, Warrington	Moore
Davenham	Miss M. Buckley*	437, London Road, Davenham, Northwich	Northwich
Delamere	Miss D. E. Joseph*	Wayside, Cotebrook, Tarporley, Cheshire	Little Budworth
Disley	Mrs. M. G. Rolls*	7, Bentside, Disley, Stockport	Disley

## HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>	
Waddington	Miss B. E. Overson*	15, Gorsey Bank Crescent, Wybunbury, Nantwich	Wybunbury	329
Wodleston	Mrs. M. E. Pilliner*	"Omega", Eaton Road, Eccleston, Chester	Eccleston	200
Dukinfield	Miss E. M. Ambler	212, Astley Street, Dukinfield	Ashton	1689
Unham	Miss O. Morton	28, Kenyon Avenue, Dukinfield	Stalybridge	2562
Massey	Mrs. O. Chapman	35, Bucklow Avenue, Partington, Urmston, Manchester	Irlam	264
Ellesmere Port	Mrs. A. Engstrom	66, Queen Street, Ellesmere Port	E. Port	2543
	Mrs. F. Massey	1, Woodsome Drive, Whitby, Ellesmere Port	Ellesmere Port	2437
ton	Miss M. I. Raby	12, Thamesdale, Whitby, Wirral	E. Port	2542
	Miss J. Potter*	Lynton House, Elton, Chester	Thornton-le- Moors	289
Farndon	Miss K. E. Hewitt*	14, Parker Drive, Farndon, Chester	Farndon	286
Frodsham	Mrs. M. A. Irwin*	19, Clifton Crescent, Frodsham, Warrington	Frodsham	2235
	Mrs. C. L. Ormsby*	10, Fountain Lane, Frodsham, Warrington	Frodsham	2027
Gawsworth	Mrs. A. Parsons*	Newlands, Woodhouse Lane, Gawsworth, Macclesfield	Macclesfield	2187
Goostrey	Miss G. Magee*	24, Booth Bed Lane, Goostrey, Crewe	Holmes Chapel	3244
Grappenhall	Mrs. D. I. Reeves	29, Kildonan Road, Grappenhall, Warrington	Warrington	63776
Great Budworth	Mrs. D. Sherratt*	Rose Bank, Marbury Lane, Comberbach, Northwich	Comberbach	279
Halton	Miss A. B. Porter*	47, Main Street, Halton, Runcorn	Runcorn	2597
Haslington	Miss D. Williams*	33, Cartwright Road, Haslington,	Crewe	2693
Hazel Grove	Miss W. M. Curtis*	62, Talbot Street, Hazel Grove Stockport	Stepping Hill	2292
	Miss S. E. Ratcliffe*	62, Talbot Street, Hazel Grove, Stockport	Stepping Hill	2292
	Mrs. M. J. Sibbitt	18, Linda Drive, Hazel Grove, Stockport	Stepping Hill	1185
Helsby	Mrs. N. E. Stewart*	Thorns, Alvanley Road, Helsby Warrington	Helsby	143
Heswall	Miss C. M. Edwards*	1, Shrewsbury Road, Heswall, Wirral	Heswall	710
Heswall Sutton	Miss M. M. Brown*	53, Walker Lane, Sutton, Macclesfield	Sutton	363
Hollingworth	Mrs. J. Banks*	Hill View, Windlehurst Road, Hawk Green, Marple	Marple	385
	Mrs. M. A. Clarke	29, Heather Grove, Hollingworth, Hyde	Mottram	2346
Holmes Chapel	Miss L. B. Blunsum*	19, West Way, Holmes Chapel, Crewe	H. Chapel	2226
Hoylake	Miss E. J. Cubbin*	20, Bispham Drive, Meols	Hoylake	2209
	Miss E. Foster*	18, Market Street, Hoylake	Hoylake	2925
	Miss J. Howes	27, Burlingham Avenue, Grange, West Kirby	Hoylake	1203
	Mrs. D. Macrae	42, Greenway, Greasby, Wirral	Arrowebrook	1239

## HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Hyde	Miss G. McClean	17, Henry Street, Hyde	Hyde
	Miss H. Sutton	17, Henry Street, Hyde	Hyde
Irby	Mrs. D. Davison*	26, Cornelius Drive, Pensby, Heswall, Wirral	Irby
	Miss M. E. Herbert*	10, Greenway, Pensby, Heswall, Wirral	Irby
	Mrs. J. Jones	12, Forest Road, Heswall, Wirral	Heswall
Knutsford	Mrs. M. O. Stone*	Flat 22, Townfields, Thorneyholme, Knutsford	Knutsford
	Miss M. E. Tierney*	Flat No. 1, Westfield Drive, Knutsford	Knutsford
Little Leigh	Miss E. M. Fishwick*	14, Brakeley Lane, Little Leigh, Northwich	Comberbach
Little Sutton	Mrs. V. Sandbach	23, Hillcrest Road, Little Sutton, Wirral	Hooton
Lostock Gralam	Mrs. F. Fuller	Avondale, 1, Griffiths Road, Lostock Gralam, Northwich	Northwich
Lymm	Mrs. A. B. James	61, Star Lane, Lymm, Cheshire	Lymm
	Mrs. M. Leonard	26, Highfield Road, Lymm, Cheshire	Lymm
Macclesfield	Mrs. K. M. Ashmore	50, Saville St., Macclesfield	Macclesfield
	Mrs. M. Earlam	50, Gawsorth Road, Macclesfield	Macclesfield
	Mrs. P. V. Moores	11, Rainow Road, Higher Hurdsfield, Macclesfield	Macclesfield
Malpas	Mrs. D.M.T. Brooks*	15, The Oathills, Malpas	Malpas
Marple	Miss L. Mayoh*	Redwood, 16, Waterside Road, Marple, Stockport	Marple
Marple Bridge	Miss N. Greenleaf*	The Cottage, 66, Lower Fold, Marple Bridge, Stockport	Marple
Marston	Mrs. W. G. Hudson*	20, Mere Road, Marston, Northwich	Comberbach
Middlewich	Miss B. Breeze*	11, Coronation Road, Middlewich	Middlewich
	Mrs. M. Taylor*	32, Sutton Lane, Middlewich	Middlewich
Mobberley	Mrs. B. Horry*	9, Tatton Stile, Mobberley, Knutsford	Mobberley
Mottram	Mrs. I. M. Huyton	25, Stockport Road, Mottram, Hyde	Mottram
Moulton	Miss V. R. Watts*	11, Regent Street, Moulton, Northwich	Winsford
Nantwich	Miss E. Larnach*	} 20, Shrewbridge Crescent, Nantwich	Nantwich
	Miss M. Mansfield*		
Norley	Miss I. E. Belsham*	Nurse's Bungalow, Crabmill Lane, Norley, Warrington	Kingsley
Northwich	Miss A. S. Dodd	13, Lodge Lane, Hartford, Northwich	Northwich
	Mrs. E. T. Dorman	Arderne House, Hodge Lane, Hartford, Northwich	Northwich
	Mrs. E. Evans	15, Woodside Terrace, Leftwich, Northwich	Northwich
	Mr. W. Hudson	20, Mere Road, Marston, Northwich	Comberbach
	Mrs. I. Owen	Dinastre, Lime Avenue, Leftwich, Northwich	Northwich

## HOME NURSES (cont.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel. No.</i>
Rode	Miss H. Barry*	2, Drenfell Road, Scholar Green, Stoke-on-Trent	Kidsgrove 2929
aton	Miss A. Cheetham*	82, Barnaby Road, Poynton, Stockport	Poynton 2137
	Mrs. D. M. Shaw*	28, Holly Road, Poynton	Poynton 2771
tbury	Miss A. M. Garry*	7, Bollinside, Prestbury, Macclesfield	Prestbury 89464
ow	Miss A. K. Keates*	Oakwood, Chapel Lane, Rainow, Macclesfield	Bollington 2184
corn	Mrs. F. Fowles	26, Hazel Avenue, Runcorn	Runcorn 2849
	Mrs. J. E. Livesey	Wivenhoe, Clifton Road, Runcorn	Runcorn 3260
	Mrs. A. A. Marsh	27, Perrin Avenue, Weston Point, Runcorn	Runcorn 3730
	Mrs. R. Adams	79, Temple Road, Sale, Cheshire	Sale 8453
	Mrs. S. Bruce	14, St. George's Crescent, Timperley, Altrincham	Sale 5981
	Mrs. M. Dutton	255, Marsland Road, Sale, Cheshire	Pyramid 2019
	Miss B. Kitchen	13, Harcourt Road, Sale, Cheshire	Sale 5764
dbach	Mrs. I. Hoyle*	9, Cffley Avenue, Sandbach	Sandbach 852
	Mrs. M. Wainwright	87, Platt Avenue, Sandbach	Sandbach 256
diway	Miss S. Rhodes*	The Cottage, Glebe Road, Cuddington, Northwich	Sandiway 2252
ghall	Miss D. McCue*	9, Lodge Lane, Saughall, Chester	Saughall 200
vington	Mrs. E. N. Feather	12, Burlea Drive, Rope Lane, Shavington, Crewe	Crewe 7234
ybridge	Mr. J. E. Billings	21, Shakespeare Avenue, Millbrook, Stalybridge	Stalybridge 2315
	Miss D. H. Garner	572, Huddersfield Road, Heyheads, Stalybridge	Mossley 268
	Mrs. A. R. Porter	27, Copley Avenue, Stalybridge	Stalybridge 3188
	Miss E. Ramsden	27, King George Road, Hyde	Hyde 2642
oeley	Miss E. Reilly*	22, Jackson Avenue, Nantwich	Nantwich 65570
ktion eath	Miss W. Maher	44, Whitfield Avenue, Bruche, Warrington	Warrington 31701
	Miss V.E. O'Donnell	104, Fairfield Road, Stockton Heath, Warrington	Warrington 64562
	Mrs. O. Saunders	12, Worsley Road, Walton, Warrington	Warrington 62996
ttton		3, Beverley Avenue, Appleton, Warrington	Warrington 64785
porley	Mrs. M. Stewart*	99, High Street, Tarporley, Cheshire	Tarporley 553
enhall	Mrs. D. M. Harper*	76, Tattenhall Road, Tattenhall, Chester	Tattenhall 387
ton	Mrs. I. A. Haynes*	Fern Lea, Tilston, Malpas, Cheshire	Tilston 249

## HOME NURSES (contd.)

<i>District</i>	<i>Nurse</i>	<i>Address</i>	<i>Tel No.</i>
Timperley	Miss J. Ferguson	10, Thorley Drive, Timperley, Altrincham	Ringway 2
	Miss M. B. McGrath	34, Keswick Road, Timperley, Altrincham	Ringway 2
Upton	Mrs. E. C. Iball	73, Upton Drive, Upton-by- Chester	Chester 25
Vicars Cross	Mrs. R. I. Croome	40, Vicars Cross, Chester	Chester 35
Weaverham	Miss M. J. Clinton	Cartref, West Road, Weaverham, Norwich	Weaverham 2
	Mrs. E.L.L. Hampson	Sunfield, Forest Road, Cuddington, Northwich	Sandiway 2
Wheelock	Miss E. E. Gerrard*	647, Crewe Road, Wheelock, Sandbach	Sandbach
Willaston (Wirral)	Miss G. Lloyd*	The Grey Cottage, Hooton Rd., Willaston, Wirral	Willaston 2
Willington	Mrs. M. S. Vickers*	9, Carter Avenue, Kelsall, Chester	Kelsall
Wilmslow	Miss E. B. Grindrod*	23, King's Close, Wilmslow, Cheshire	Wilmslow 5
	Miss J. May	17, Pickmere Road, Handforth, Wilmslow, Cheshire	Wilmslow 4
	Miss P. I. Royle*	17, Bourne Street, Wilmslow, Cheshire	Wilmslow 2
Winsford	Miss I. A. Bremner*	204, Ways Green, Winsford, Cheshire	Winsford 2
	Miss P. M. Jones*	8, Wellfield, Wharton Road, Winsford, Cheshire	Winsford 2
Wistaston	Miss B. E. Bray*	34, Elm Close, Wistaston, Crewe	Crewe 2
Worleston	Mrs. R. E. Fort*	Laundry Cottage, Rookery Park, Worleston, Nantwich	Nantwich 65

### Full-time Relief Nurses

Mrs. C. M. Hibbert*	Blencathra, Plant Lane, Elton, Sandbach	Sandbach
Miss J. M. Waghorn*	1, South Drive, Irby, Heswall, Wirral	Irby 3

### Part-time Nurses

Mrs. M. Beard	19, Stage Lane, Lymm, Warrington	Lymm
Mrs. M. J. Bennett	Gorston, Sandy Lane, Little Neston, Wirral	Neston 1
Mrs. W. M. Booth	47, Victoria Road, Stockton Heath, Warrington	
Mrs. M. L. Buckley*	7, Ascol Drive, Plumley, Knutsford	Northwich
Mrs. M. Chesters	23, Davenport Avenue, Crewe	Crewe
Mrs. E. Clarke	12, Brookside Avenue, Poynton, Stockport	Poynton
Miss E. J. Cliff	6, Ivy Lane, Alsager, Stoke-on-Trent	Alsager
Mrs. B. Collier	2, Beech Avenue, Rosehill, Marple, Stockport	

Part-time Nurses (contd.)

Mrs. S. Davenport	49, Ermine Road, Newton Park, Chester	Chester	28693
Mrs. V. M. Dutton*	Walkers Green Farm, Sproston, Middlewich	Middlewich	174
Mrs. D. M. Edwards	Yew Tree House, Liverpool Road, Neston, Wirral	Neston	2017
Mrs. D. Frame	6, Thorneyholme Drive, Knutsford	Knutsford	2558
Mrs. S. A. Gill	70, Guywood Lane, Romiley, Stockport		
Mrs. E. L. Hartwell	28, Alexandra Grove, Runcorn	Runcorn	4628
Mrs. J. Hingorani	5, Tranmere Drive, Parsonage, Handforth, Wilmslow, Cheshire		
Mrs. H. M. Johnson	21, Fir Tree Drive, Newton, Hyde	Hyde	3402
Mrs. J. H. Jones	115, Hyde Road, Woodley, Stockport	Woodley	3685
Mrs. D. Keely	79, St. Werburgh's Road, Chorlton, Manchester, 21.	Chorlton	1780
Mrs. B.E. MacDonald	94, Stanley Road, Cheadle Hulme		
Mrs. M. McNamee	231, Brooklands Road, Manchester, 23	Pyramid	2514
Mrs. E. A. Manion	90, Chester Road, Grappenhall, Warrington	Warrington	63159
Mrs. J. Porter	16, Bollinbarn Bollinbrook Road, Macclesfield		
Mrs. M. Pugh	26, Ferguson Avenue, Overpool, Ellesmere Port		
Mrs. M. Reece,	26, George Street, Barnton Northwich		
Mrs. M. Rhodes	27, St. Wilfred's Drive, Grappenhall, Warrington	Warrington	64176
Mrs. E. Scholes	36, Bailey Crescent, Congleton		
Mrs. G. M. Shanahan	63, Anglesey Road, West Kirby, Wirral		
Mrs. W. F. Stenning	1, Hillcrest Drive, Little Sutton, Wirral		
Mrs. S. V. Worrall	91, Carrington Lane, Ashton-on- Merey, Sale	Sale	5328

**COUNTY MIDWIVES (78)**

<i>District</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Alsager	Mrs. E. L. Pedley (33)	6, Audley Road, Alsager, Stoke-on-Trent	Alsager
Altrincham	Mrs. A. Warburton (40)	220 Manchester Road, Broadheath, Altrincham	Altrincham
	Miss M. E. Cassidy (41)	26, Grove Lane, Timperley, Altrincham	Ringway
Bebington	Mrs. C. R. Green (5)	152, Town Lane, Bebington	Mountwood
	Mrs. A. Harwood (6)	84, Thorburn Road, New Ferry	Rock Ferry
	Mrs. D. Clarke (7)	922, New Chester Road, Bromborough, Wirral	Eastham
	Mrs. B. A. Linkman (4)	15, Stretton Close, Eastham	Eastham
Bredbury	Miss M. M. Leigh (57)	13, George Lane, Bredbury, Stockport	Woodley
	Miss M. E. Morris (57a)	13, George Lane, Bredbury, Stockport	Woodley
Cheadle	Miss M. T. Rue, 8, Eskdale, High Grove, Cheadle		Gatley
	Mrs. S. Henry (48)	2, Alder Road, Cheadle	Gatley
	Miss R. McMechan (49a)	45, Neal Avenue, Heald Green	Mercury
	Miss M. J. Thompson, 113, Hulme Hall Road, (48a)	Cheadle Hulme	
Congleton	Miss D. H. Wright (47)	Ewanrigg, Giantswood Lane, Congleton	Congleton
Crewe	Miss E. A. Bimson (27)	20, Gatefield St., Crewe	Crewe
	Miss D. B. Sowden (29)	22a, Heathfield Ave., Crewe	Crewe
	Mrs. E. Weston (30)	19, Nelson Street, Crewe	Crewe
	(31a)	199, Edleston Road, Crewe	Crewe
Dukinfield	Miss L. W. O'Hara (62)	13, Foundry Street, Dukinfield	Ashton
Ellesmere Port	Miss L. Bradley (63)	24, Morar Road, Dukinfield	Ashton
	Miss E. Bowyer (9)	71, Glenwood Road., Little Sutton, Wirral	Hooton
	Miss H. Jobber	138, Princes Rd., Ellesmere Port	Ellesmere Port
	Mrs. M. H. Bendell (10)	Lyndale, 6, Palm Grove, Sunny Haven Estate, Whitby, Ellesmere Port	Ellesmere Port
	Mrs. V.E. Corson (11)	40, Wilkinson Street, Ellesmere Port	Ellesmere Port
	Mrs. E. Evans (12)	85, Grace Road, Ellesmere Port	Ellesmere Port
	Miss N. Evans (14)	2, Woodchurch Lane, Ellesmere Port	Ellesmere Port
	Miss I. N. Willis (13)	1, Mallory Road, Ellesmere Port	Ellesmere Port
Grappenhall	Miss E. Tinker (21)	30, Georges Crescent, Grappenhall Warrington	Warrington
Hale and Hale Barns	Miss K. Coates (40a)	26, Grove Lane, Timperley, Altrincham	Ringway
Hartford	Mrs. P. E. Edwards (23a)	28, Stones Manor Lane, Hartford, Northwich	Northwich
Hazel Grove	Mrs. M. Vidovic	20, Reevey Avenue, Hazel Grove Stockport	Stepping Hill
Hollingworth	Mrs. K. O'Grady (66)	6, Claylands Close, Hollingworth Manchester	Mottram
Hoylake and West Kirby	Miss Mona Williams (1)	1, Trinity Road, Hoylake, Wirral	Hoylake
	Mrs. M. Cooper (2)	38, Rigby Drive, Greasby, Wirral	Arrowebrook
	Miss G. Wotton (3)	103, Lloyd Drive, Greasby Wirral	Arrowebrook

## COUNTY MIDWIVES (cont.)

District	Name	Address	Telephone
Woodley	Mrs. E. Hudson (64)	72, Pennine Road, Woodley	4033
Hyde	Miss M. Coote (66a)	3b, Hallbottom Street, Hyde	1161
Hyde	Mrs. M. Williams (65)	10, Paddock Road, Cheetham Fold Estate, Hyde	3441
Lymm	Miss J. Pike (34)	21, The Crescent, Lymm, Warrington	725
Macclesfield	Mrs. B. J. Whittaker (52)	27, Cottage, Street, Macclesfield	3766
Macclesfield	Miss F. A. Scrivens (53)	Flat 4, Sunny Bank, London Rd., Macclesfield	3853
Macclesfield	Mrs. A. Watson (54)	18, Surrey Road, Macclesfield	4455
Macclesfield	Mrs. C. H. Doody (55)	Norwood, Blakelow Road, Macclesfield	5217
Macclesfield	Miss Y. Plant (56)	79, Oxford Road, Macclesfield	6533
Macclesfield	Miss J. M. Barber (56a)	17, Arlington Drive, Macclesfield	5929
Marple	Miss A. S. Travis	19, Greenbank Crescent, Mount Drive Estate, Marple	361
Marple	Miss D. Price (8)	Gorston, Sandy Lane, Little Neston, Wirral	1185
Northwich	Mrs. W. A. Place (24)	22, Fairfield Road, Leftwich, Northwich	3050
Northwich	Miss D. I. Price (24a)	38, Water Street, Northwich	2314
Partington	Miss H. Lawrie (43)	37, Bucklow Avenue, Partington, Urmston, Manchester	2274
Partington	Mrs. C. K. Clare (43a)	Thornlea, Manchester Road, Partington, Urmston, Manchester	3892
Romiley	Miss E. Whaite (70)	9, Windsor Grove, Romiley	534
Runcorn	Miss E.M. Grice (17a)	40, Norman Road, Runcorn	3602
Runcorn	Miss P. Noon (19)	73, Oxford Road, Runcorn	2881
Runcorn	Mrs. P. Farrell (17)	134, Heath Road South, Weston, Runcorn	3707
Runcorn	Mrs. J. Capper (18)	10, Stanley Villas, Runcorn	2556
Sale	Miss J. Reddington (36)	22, Georges Road, Sale	7033
Sale	Miss S. Taylor (38)	104, Hoylake Road, Sale	1724
Sale	Mrs. M. McGrath (37)	2, Reading Drive, Sale	2445
Sandbach	Miss M. Beatty (45)	5, Coronation Crescent, Sandbach	731
Sandbach	Miss H. Sowerbutts (58)	572, Huddersfield Road, Heyheads, Stalybridge	2268
Stalybridge	Miss N. Robinson (59)	6, Acres Lane, Stalybridge	2821
Stalybridge	Mrs. J. Evans (60)	35, Groby Street, Stalybridge	2512
Stockton Heath	Mrs. J. M. Arthur (22)	15, Southern Street, Stockton Heath	61674
Warrington	Miss C. Brierley (15)	Greystones, Quarry Lane, Christleton, Chester	35942
Chester	Miss I. B. Jones (16)	18, Bache Avenue, Liverpool Rd., Chester	21097
Chester	Miss J. Wolahan (23)	49, Wallerscote Road, Weaverham, Northwich	2116
Weaverham	Miss F. Marsden (67)	1, Prescott Rd., Lacey Green, Estate, Wilmslow	5577
Wilmslow	Mrs. E. T. Foster (68)	51, Pickmere Rd., Handforth	3120
Beacon Hill	Mrs. E. J. Day (67a)	Hawthorn Cottage, 131, Gravel Lane, Wilmslow	262



## CEREBRAL PALSY TEAM

<i>Physiotherapist</i>	—	—	—	Joyce Urmson
<i>Occupational Therapist</i>	—	—	—	Annabel Noake

## CHILD GUIDANCE SERVICE

<i>Child Psychiatrists</i> (part-time)	—	—	—	J. Erulkar, M.B., B.S., D.C.H., M.R.C.P., D.P.M. D. M. Zausmer, B.Sc., M.B. B.S., D.P.M. I. Berman, M.B., CH.B., D.P.M.
<i>Psychologists</i>	—	—	—	T. W. Crabtree, B.A. Elizabeth Long, B.A. Nora Scott, B.A. (part-time) J. Walker, B.A. Christine Potter (part-time)
<i>Psychological Social Workers</i>	—			Ellen Howitt Mary Grant Phyllis Redfarn Christabel Walker, B.A.

## PERIPATETIC TEACHERS OF THE DEAF

P. R. Buckingham	D. L. Perry
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## SPEECH THERAPISTS

Gillian Barlow	Gillian Howard
Susan Williams	Margaret Johnson
Rayleen Eaton	Melba Loynes (part-time)

## DOMESTIC HELP SUPERVISORS

<i>Division</i>	<i>Supervisor</i>
Crewe and Nantwich	Joan Clarke
Deeside and Bebington	Joan Cargill
Hyde, Stalybridge & Dukinfield	Frances Dobson
Mid-Cheshire	Freda Moore
N.E. Cheshire	Ada Sutton
Macclesfield and S.E. Cheshire	Joan Cheetham
S.W. Cheshire	Dorothy Fellowes
Altrincham, Sale and Lymm	Nora Mawby
Runcorn	Dorothy Shepherd
Cheadle and Wilmslow	Catherine Rimmer

**MENTAL WELFARE OFFICERS**

District	Area	Office Address	Senior Mental Welfare Officer	Mental Welfare Officers
No. 1 Wirral	BEBINGTON M.B. HOYLAKE U.D. WIRRAL U.D. NESTON U.D.	218, Bebington Road, Bebington Telephone:—Rock Ferry 4243/4	Mr. E. M. Harborow, The Allports, Allport Road, Bromborough. Telephone:—Bromborough 1620	Mr. E. S. Hughes, 6, Newton Drive, Newton, West Kirby. Telephone:—Hoylake 7830
No. 2 West Cheshire	ELLESMERE PORT M.B. CHESTER R.D. TARVIN R.D.	55, Hoole Road, Chester Telephone:—Chester 22299	Mr. F. H. Mills, Northwood, Millfields, Nantwich Telephone:—Nantwich 65545	Mr. H. Q. Dowland, 3, Upton Drive, The Bache, Chester Telephone:—Chester 20091
No. 3 Runcorn and Lymm	RUNCORN U.D. RUNCORN R.D. LYMM U.D.	District Offices, Waterloo Road, Runcorn Telephone:—Runcorn 2608	Mr. H. Holden, 79, Victoria Road, Runcorn Telephone:—Runcorn 3747	Mr. A. Braddock, 16, Riley Drive, Runcorn Telephone:—Runcorn 4127
No. 4 Mid Cheshire	NORTHWICH U.D. WINSFORD U.D. MIDDLEWICH U.D. NORTHWICH R.D.	Brunner Guildhall, High Street, Winsford Telephone:—Winsford 3346	Mr. E. Platt, Kensyd, Delamere Street, Winsford Telephone:—Winsford 3352	Mr. I. Leslie, 2, Vale Road, Hartford, Northwich. Telephone:—Northwich 5137
No. 5 Crewe and Nantwich	CREWE M.B. NANTWICH U.D. NANTWICH R.D. ALSAGER U.D. SANDBACH U.D.	201, Edleston Road, Crewe Telephone:—Crewe 2478	Mr. R. E. Broach, 180, Crewe Road, Alsager. Telephone:—Alsager 174	Mr. P. Hennessey, 6, Kingsway, Crewe Telephone:—Crewe 55638
No. 6 Altrincham, Sale and Knutsford	ALTRINCHAM M.B. SALE M.B. BOWDON U.D. HALE U.D. KNUTSFORD U.D. BUCKLOW R.D.	5, School Road, Sale Telephone:—Sale 2305 Pyramid 2951	Mr. J. Thompson, 23, Manor Avenue, Ashton-on- Mersey, Sale. Telephone:—Sale 5582	Mr. R. E. Hopkinson, 4, Hargreaves Road, Timperley. Telephone:—Ringway 4775
No. 7 Macclesfield Congleton	MACCLESFIELD M.B. MACCLESFIELD R.D. CONGLETON M.B. CONGLETON R.D. BOLLINGTON U.D.	Oak House, Brunswick Street, Macclesfield Telephone:—Macclesfield 6030	Mr. L. Meadwell, Craigmore, Brereton Heath Lane, Somersford, Congleton Telephone:—Holmes Chapel, 3202	Mr. G. D. Brown, 76, Bailey Crescent, Buglawton, Congleton. Telephone:—Congleton 2329
No. 8 North-East Cheshire	CHEADLE & GATLEY U.D. HAZEL GROVE & BRAMHALL U.D. MARPLE U.D. WILMSLOW U.D. ALDERLEY EDGE U.D. DISLEY R.D.	District Offices, Shaw Heath, Stockport Telephone:—Stockport 4422	Mr. R. Ashton, 23, Fairfield Avenue, Cheadle Hulme Telephone:—Hulme Hall 3672	Mrs. I. Houghton, 9, Stalmine Avenue, Heald Green Cheadle. Telephone:—Mercury, 3481
No. 9 Stalybridge Heald Green and Dunfield	STALYBRIDGE M.B. HYDE M.B. DUKINFIELD M.B. LONGDENDALE U.D. BREDBURY & ROMILEY U.D. TINTWISTLE R.D.	1A, Melbourne Street, Stalybridge Telephone:—Stalybridge 2274	Mr. G. E. Lanceley, 46, Russell Street, Dukinfield Telephone:—Ashton-u-Lyne 3668	Mrs. M. Townsend, Laureldene, Mottram Road, Stalybridge Telephone:—Mottram 2134



DAY TOWN

1. Gaskell Road (Tel. Altrincham 3851) Altrincham M.B.

Altrincham M.B. (Tel. Altrincham 3851) Altrincham M.B.

Manor - Mrs. F. G. Davies (Tel. Altrincham 3851) Altrincham M.B.

Bradley House, Layton Street (Tel. Congleton 2891) Congleton M.B.

Manor - Mrs. E. E. Barker (Tel. Altrincham 3851) Altrincham M.B.

Downing Lane (Tel. Ashton-u-Lyne 3116) Ashton-u-Lyne M.B.

Manor - Mrs. E. Roberts (Tel. Macclesfield 2811) Macclesfield M.B.

Nicholson Avenue, Huddsfield (Tel. Huddsfield 2811) Huddsfield M.B.

Manor - Mrs. E. Roberts (Tel. Huddsfield 2811) Huddsfield M.B.

Bonny Field, Wellington Road (Tel. Bolton 2811) Bolton M.B.

Manor - Mrs. E. Roberts (Tel. Bolton 2811) Bolton M.B.

Huddsfield Park Road, Huddsfield (Tel. Huddsfield 2811) Huddsfield M.B.

Manor - Mrs. E. Roberts (Tel. Huddsfield 2811) Huddsfield M.B.

Queen's Road, Huddsfield (Tel. Huddsfield 2811) Huddsfield M.B.

Manor - Mrs. E. Roberts (Tel. Huddsfield 2811) Huddsfield M.B.

Gaskell Street, Altrincham (Tel. Altrincham 3851) Altrincham M.B.

Manor - Mrs. E. Roberts (Tel. Altrincham 3851) Altrincham M.B.

Navigation Road (Tel. Altrincham 3851) Altrincham M.B.

Manor - Mrs. E. Roberts (Tel. Altrincham 3851) Altrincham M.B.

Charles Avenue, Mill Park, Altrincham (Tel. Altrincham 3851) Altrincham M.B.

Manor - Mrs. E. Roberts (Tel. Altrincham 3851) Altrincham M.B.

Orange Road (Tel. Hyde 1111) Hyde M.B.

Manor - Mrs. E. Roberts (Tel. Hyde 1111) Hyde M.B.

31. Orange Road (Tel. Macclesfield 2811) Macclesfield M.B.

Manor - Mrs. E. Roberts (Tel. Macclesfield 2811) Macclesfield M.B.

Navigation Road (Tel. Altrincham 3851) Altrincham M.B.

Manor - Mrs. E. Roberts (Tel. Altrincham 3851) Altrincham M.B.

CENTRAL OFFICE

Central Office (Tel. Altrincham 3851) Altrincham M.B.

## DAY NURSERIES

- Altrincham M.B. 1, Gaskell Road (Tel. Altrincham 3621).  
*Matron*—Mrs. W. Helliwell
- Bebington M.B. The Bradmoor, Bromborough (Tel. Brom-  
*Matron*—Mrs. F. G. Davies borough 1381)
- Congleton M.B. Bradshaw House, Lawton Street (Tel. Congleton  
*Matron*—Mrs. E. E. Barker 3282).
- Dukinfield M.B. Dewsnap Lane (Tel. Ashton-u-Lyne 3136).  
*Matron*—Mrs. C. J. Bell
- Ellesmere Port M.B. Stanney Lane, Ellesmere Port (Tel.:  
*Matron*—Mrs. R. F. Chroston E. Port 1500)
- Macclesfield M.B. South Park, Poplar Road (Tel. Macclesfield 3751)  
*Matron*—Mrs. M. Mallinson
- 1, Glegg Street (Tel. Macclesfield 2813).  
*Matron*—Mrs. E. Roberts
- Nicholson Avenue, Hurdsfield (Tel. Maccles-  
*Matron*—Mrs. L. Potts field 4225)
- Sale M.B. Harley Road (Tel. Sale 4627).  
*Matron*—Mrs. C. M. de Patoul
- Bollington U.D. Buntings Field, Wellington Road (Tel. Bolling-  
*Matron*—Mrs. M. Trier ton 3294)
- Bredbury & Romiley U.D. Highfield Park Road, Bredbury (Tel. Woodley  
*Matron*—Mrs. E. Ogden 2817).
- Hazel Grove & Queen's Road, Hazel Grove (Tel. Stepping Hill  
Bramhall U.D. *Matron*—Miss P. Höhne 2048)
- Runcorn U.D. Okell Street (Tel. Runcorn 2461).  
*Matron*—Mrs. M. Jones

## WRENBURY HALL TUBERCULOSIS REHABILITATION CENTRE

*Warden and Manager*—L. T. Burton (Tel. Aston (Nantwich 313))

## MOTHER AND BABY HOME

Prospect House, 7, Trinity Road, Hoylake (Tel. Hoylake 1054).

*Matron*—Mrs. U. Amah

## JUNIOR TRAINING CENTRES

- Altrincham Navigation Road (Tel. Altrincham 4977).  
*Supervisor*—Mrs. D. M. Platt.
- Bebington Calveley Avenue, Mill Park Drive, Eastham (Tel.  
*Supervisor*—Miss I. J. Young Eastham 2270).
- Hyde Grange Road (Tel. Hyde 1718).  
*Supervisor*—Mrs. J. Worfolk.
- Macclesfield 33, Great King Street (Tel. Macclesfield 3407).  
*Supervisor*—Mrs. M. Cheadle.
- Nantwich Methodist Sunday School (Tel. Nantwich 65378).  
*Supervisor*—Mrs. M. Hayes.

## ADULT TRAINING CENTRES

- Ellesmere Port Coronation Road (Tel. Ellesmere Port 1512).  
*Superintendent*—J. H. Heath.
- Hyde Grange Road (Tel. Hyde 1730).  
*Superintendent*—L. S. C. Thorpe.

## CENTRAL OFFICE

County Hall, Chester (Tel. Chester 24678)

# REPORT OF THE County Medical Officer of Health

For the Year ended December 31st, 1962

## Section 1.-Area and Population

### Area

The acreage of the County at the end of 1962 was 621,825 acres.

### Population

The population of the Administrative County, as constituted 1/4/62 and enumerated at the Census of 1961, was 921,212. The estimate of the Registrar-General for mid-1962 was 944,190.

### Rateable Value

The rateable value of the Administrative County of Cheshire for General County Rate purposes at 1/4/62 was £12,807,159. A penny rate over the whole County for 1962-63 represented the sum of £52,765 (estimated).

### Health Service Premises

The undermentioned major works were commenced or completed in the above year, and many minor adaptations and improvements were carried out at various buildings. The normal programme of maintenance work has continued.

#### *Buildings completed during the year:*

Barnton Clinic Centre.  
Eastham Clinic Centre.  
Partington Clinic Centre.  
Tattenhall Ambulance Station.

#### *Buildings in course of erection during the year:*

Northwich Ambulance Station.  
Altrincham Adult Training Centre.  
Crewe Junior and Adult Training Centres.  
Hyde Junior and Adult Training Centres.  
Macclesfield Junior and Adult Training Centres.  
Northwich Adult Training Centre.  
Congleton Park Lane Clinic Centre.  
Grappenhall Clinic Centre.  
Sale Meadway Clinic Centre.  
Hazel Grove Clinic Centre and Divisional Health Office.  
Stalybridge Clinic Centre and Divisional Health Office.

## Section II.- Births and Deaths

The figures are for the Administrative County, 1962, unless otherwise stated.

### Live Births:—

	Total	Male	Female
Legitimate .....	16260	8383	7877
Illegitimate .....	716	377	339
	16976	8760	8216

Birth Rate per 1,000 of the estimated resident population, 18.0

Illegitimate Live Births were 4.2% of the total live births.

	Total	Male	Female
<b>Stillbirths:—</b>			
Stillbirths .....	303	154	149

Stillbirths Rate per 1,000 total (live and still) births, 17.5

Total—Live and Still Births, 17,279.

	Total	Male	Female
<b>Deaths:—</b>			
Deaths .....	11462	5738	5724

Death Rate per 1,000 of population, 12.1.

### Infantile Mortality:—

	Under 1 year	Under 4 weeks	Under 1 week
Deaths of Infants in the Administrative County during 1962 .....	401	247	205
Legitimate .....	384	236	197
Illegitimate .....	17	11	8
All Infants per 1,000 live births .....	23.6	14.5	12.1
Legitimate Infants per 1,000 legitimate live births.....	23.6	14.5	12.1
Illegitimate Infants per 1,000 illegit- imate live births .....	23.7	15.4	11.2

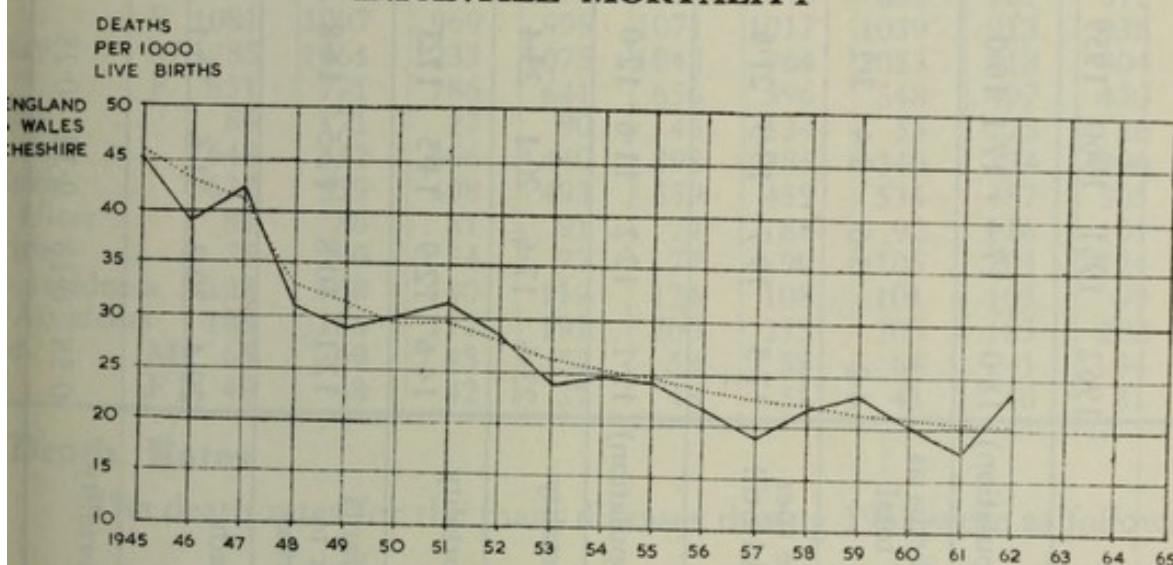
Of the 401 deaths of infants under one year of age, 92 deaths occurred at home and 309 deaths in hospitals or nursing homes. The

causes of death, using the Registrar General's Classification, were as follows:—

Heart Diseases .....	2
Other Circulatory Disease .....	1
Non-Respiratory Tuberculosis .....	1
Influenza .....	1
Other Diseases of Respiratory System .....	2
Whooping cough .....	1
Meningococcal infections .....	1
Malignant Neoplasm .....	1
Vascular lesions of the nervous system .....	1
Pneumonia .....	68
Bronchitis .....	7
Gastritis, Enteritis, Diarrhoea .....	17
Congenital Malformations .....	93
Other diseases .....	184
Accidents .....	20
Ulcer of Stomach and Duodenum .....	1

The figures for deaths under one year in recent years are shown in the following diagram:—

### INFANTILE MORTALITY



### Perinatal Deaths

Perinatal deaths are the total of stillbirths and deaths of infants under one week, and were made up as follows in 1962:—

Stillbirths .....	303
Deaths under one week .....	205
<i>Total</i> .....	<u>508</u>

The Perinatal Mortality Rate (stillbirths and deaths under one week combined per 1,000 total live and still births) for 1962 was 29.4.

### Deaths from Puerperal Causes

Pregnancy, Childbirth, Abortion .....	Deaths	Rate per 1,000 total (live and still) births
.....	10	0.58



**Comparison of various rates with previous years**

	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950
Births	16976	17.4	17.1	16.0	15.9	15.6	15.0	14.1	14.3	14.6	14.3	14.5	14.8
Birth Rate (per 1,000 population)	18.0	17.4	17.1	16.0	15.9	15.6	15.0	14.1	14.3	14.6	14.3	14.5	14.8
Illegitimate Births	716	3.6	3.4	3.2	3.2	3.2	3.6	3.3	3.7	3.8	3.7	3.7	3.9
Illegitimate Births as percentage of total Live Births	4.2	3.6	3.4	3.2	3.2	3.2	3.6	3.3	3.7	3.8	3.7	3.7	3.9
Stillbirths	303	17.5	19.3	21.6	22.5	22.8	24.1	22.4	26.0	22.1	23.4	23.0	24.9
Stillbirth Rate (per 1,000 Live and Still Births)	17.5	19.7	19.3	21.6	22.5	22.8	24.1	22.4	26.0	22.1	23.4	23.0	24.9
Deaths	11462	12.1	11.6	12.0	12.1	11.9	12.3	12.2	11.9	11.3	11.6	13.1	11.6
Death Rate (per 1,000 population)	12.1	12.2	11.6	12.0	12.1	11.9	12.3	12.2	11.9	11.3	11.6	13.1	11.6
Deaths of Infants under one year	401	23.6	17.6	20.1	23.4	22.4	18.8	22.5	24.7	24.1	28.0	32.0	30.0
Infantile Mortality Rate	23.6	17.6	20.1	23.4	22.4	18.8	22.5	24.7	24.9	24.1	28.0	32.0	30.0
Deaths of Infants under four weeks	247	14.6	12.9	14.5	17.3	16.1	12.5	15.8	16.7	16.0	18.0	21.0	19.2
Neo-natal mortality Rate	247	14.6	12.9	14.5	17.3	16.1	12.5	15.8	16.7	16.0	18.0	21.0	19.2
Deaths of Infants under one week	205	12.1	10.8	12.5	14.8	.....	.....	.....	.....	.....	.....	.....	.....
Deaths of Infants under 1 week to 1,000 live births	205	12.1	10.8	12.5	14.8	.....	.....	.....	.....	.....	.....	.....	.....
Perinatal Deaths (Stillbirths & deaths under one week)	508	29.4	30.3	31.6	36.1	.....	.....	.....	.....	.....	.....	.....	.....
Perinatal Death Rate	508	29.4	30.3	31.6	36.1	.....	.....	.....	.....	.....	.....	.....	.....
Maternal Deaths	10	0.58	0.18	0.38	0.28	0.14	0.51	0.61	0.66	0.5	1.1	1.1	0.88
Maternal Mortality rate	10	0.58	0.18	0.38	0.28	0.14	0.51	0.61	0.66	0.5	1.1	1.1	0.88

## Principal Causes of Death

### Causes of Death 1953-1962 (all ages)

The table below shows the trends in the causation of death at all ages for each of the last ten years

	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953
Resp.	40	44	37	54	59	72	98	75	96	93
Other	3	3	7	3	7	11	8	15	17	11
Bacteria	—	—	—	—	—	—	—	—	—	—
Whooping Cough	2	1	1	1	—	3	3	3	—	3
Measles	—	2	—	2	1	1	1	2	4	5
Stom. M	158	175	172	177	168	166	151	151	169	180
F	144	110	145	144	133	129	131	137	114	138
Chronic Bronch M	349	350	300	311	337	310	288	274	268	208
F	57	57	60	52	49	49	52	44	35	52
Ischaemic Heart	189	198	167	167	160	149	166	167	154	156
Myocarditis	87	84	91	67	80	77	82	78	78	86
Stroke M	480	441	442	462	457	465	442	442	425	404
F	439	419	476	445	433	407	410	410	399	378
Leukaemia	42	42	40	44	42	28	43	39	47	43
Lymphomas	88	81	65	57	67	43	56	63	60	55
Nerv. Syst. M	712	684	639	711	658	648	669	701	671	588
F	1081	1097	969	995	1071	1017	1039	913	938	859
Alcoholism M	1285	1261	1233	1075	1043	964	1053	918	904	816
F	851	771	786	641	656	596	548	497	430	415
Influenza	86	171	27	90	45	134	55	75	26	100
Pneumonia	648	542	466	440	398	385	340	334	296	261
Chronic Bronchitis	632	539	498	493	559	459	534	487	505	490
Peptic Ulcer	81	86	81	91	74	88	92	116	101	91
Nephritis	75	60	74	77	77	90	105	104	124	117
Motor Accidents	123	168	140	119	124	108	101	105	99	90
Other Accidents	188	186	172	191	200	215	205	183	202	178
Diabetes M	65	69	45	52	58	58	64	41	54	53
F	49	48	42	37	48	51	41	40	51	26

## Death Rates

The death rates for the main diseases during 1962 were as follows:

Disease	No. of Deaths	Rate per million population
Heart Disease	3724	3944
Malignant Diseases	1903	2015
Vascular lesions of nervous system	1793	1899
Bronchitis	632	669
Pneumonia	648	686
Ulcer of Stomach and Duodenum	81	86
Influenza	86	91
Nephritis	75	79
Tuberculosis (all forms)	43	46
Pulmonary	40	42
Non-Pulmonary	3	3
Diabetes	88	93

## Zymotic Deaths

The deaths from the chief zymotic diseases were as follows:

Disease	No. of Deaths	Rate per million population
Diphtheria	—	—
Whooping Cough	2	2·1
Measles	—	—
Gastritis, Diarrhoea and Enteritis	59	62·5

The zymotic Death Rate was 0·06 per 1,000 population.

### DEATHS FROM CANCER OF LUNG AND BRONCHUS, AND FROM BRONCHITIS

	Cancer	Bronchitis
<b>Within 10 miles of Manchester</b>		
Altrincham M.B.	21	37
Bowdon U.D.	1	4
Bredbury and Romiley U.D.	5	19
Cheadle and Gatley U.D.	16	24
Dukinfield M.B.	15	20
Hale U.D.	6	8
Hazel Grove and Bramhall U.D.	11	18
Hyde M.B.	11	29
Longdendale U.D.	1	4
Marple U.D.	5	16
Sale M.B.	27	33
Stalybridge M.B.	12	33
Population, 309,010	131	245
Death rate per 1,000 population	0·42	0·79
<b>Within 10 miles of Liverpool</b>		
Bebington M.B.	24	33
Hoylake U.D.	13	15
Wirral U.D.	13	11
Population, 107,270	50	59
Death rate per 1,000 population	0·47	0·55
<b>Industrial Areas more than 10 miles from Liverpool or Manchester</b>		
Bollington U.D.	2	6
Congleton M.B.	7	11
Crewe M.B.	26	35
Ellesmere Port M.B.	22	19
Macclesfield M.B.	17	14
Middlewich U.D.	5	8
Northwich U.D.	7	13
Runcorn U.D.	11	21
Winsford U.D.	2	8
Population, 226,110	99	135
Death rate per 1,000 population	0·44	0·60

	Cancer	Bronchitis
<b>Rest of County</b>		
Alderley Edge U.D.	3	5
Alsager U.D.	3	6
Knutsford U.D.	3	17
Lymm U.D.	4	3
Nantwich U.D.	7	12
Neston U.D.	8	7
Sandbach U.D.	2	8
Wilmslow U.D.	7	10
Bucklow R.D.	6	10
Chester R.D.	14	16
Congleton R.D.	6	11
Disley R.D.	4	6
Macclesfield R.D.	6	14
Nantwich R.D.	9	15
Northwich R.D.	16	25
Runcorn R.D.	21	23
Tarvin R.D.	6	4
Tintwistle R.D.	1	1
	<hr/>	<hr/>
Population, 301,800	126	193
	<hr/>	<hr/>
Death rate per 1,000 population	0.42	0.64

## Section III.-Vaccination and Immunisation

Under Section 26 of the National Health Service Act, 1946, the County Council has the duty of making available a full service of vaccination against smallpox and of immunisation against diphtheria; the organisation and management of the scheme has been devolved upon the Divisional Health Committees. Immunisation is also provided against whooping cough and tetanus. Immunisation is, in practice, meant for children, with particular attention to those in infancy, with reinforcing doses on school entry, but vaccination may on occasion be sought by persons of any age.

Arrangements made under the Council's scheme include participation by general practitioners and sessions at clinics. The table at the end of this section sets out the details.

### Smallpox Vaccination

During the year 1962, the number of persons vaccinated was as follows:—

	<i>Vaccinated</i>	<i>Re-Vaccinated</i>
Under 1 year .....	6925	4
Age 1 year .....	4161	36
Age 2—4 years .....	3795	686
Age 5—14 years .....	10460	8928
Age 15 years and over .....	14961	30926
	40302	40580

### Diphtheria Immunisation

During the same period the number of children notified as having completed a full course of primary immunisation against diphtheria on receiving booster doses was:—

<i>Year of Birth</i>	<i>Primary Course</i>	<i>Booster Doses</i>
1962 .....	4422	7
1958-61 .....	6954	623
1948-57 .....	1056	6609
	12432	7239

It is unfortunate that not all immunisations carried out are notified to the Local Health Authority and the above figures are therefore not complete.

The number of children at 31st December, 1962, who had completed a full course of immunisation against diphtheria at any time before that date was as follows:—

<i>Born in Year</i>	<i>Last complete course of injections (whether primary or booster)</i>	
	1958—62	1957 or earlier
1962 .....	4571	—
1958—61 .....	41825	—
1953—57 .....	37134	31041
1948—52 .....	21042	53424
<b>Totals</b> 1948—62 .....	<b>104572</b>	<b>84465</b>

### Whooping Cough Immunisation

During the year 1962 the number of children who completed a full course of immunisation against whooping cough was as follows:—

<i>Year of Birth</i>	
1962 .....	3380
1961 .....	5862
1960 .....	655
1959 .....	213
1958 .....	125
1953—57 .....	378
1948—52 .....	134
<b>Total</b>	<b>10747</b>

### Mid-year Child Population

The estimated mid-year child population for the year 1962 was:—

Under 1 year .....	16300
1—4 years .....	59600
5—14 years .....	137600
<b>Total under 15 years</b> .....	<b>213500</b>

### Poliomyelitis Vaccination

The County scheme was further extended in March, 1956, to include vaccination or immunisation against any other disease authorised by the Minister of Health. Approval was given by the Minister to the vaccination of children against poliomyelitis.

When vaccination of children against poliomyelitis started in 1956 only children in the 1947-54 age group were registered for vaccination, but in May, 1957, the registration of children born in 1955 and 1956 was permitted. Further extensions of the scheme have been made from time to time. At the end of 1959 all persons born since 1914 were approved for vaccination.

Statistics relating to the scheme for 1962 were:—

	<i>Born</i> 1943/62	<i>Others</i>	<i>Total</i>
<b>1. Primary Immunisation</b>			
No. of persons who have received:—			
(a) 1 Injection of Salk Vaccine at 31/12/62 .....	215	69	284
(b) 2 Injections of Salk Vaccine during 1962 .....	5,704	4,060	9,764
(c) 1 dose Oral Vaccine at 31/12/62 .....	2,482	621	3,103
(d) 2 doses Oral Vaccine during 1962.....	11,923	3,387	15,310
(e) 3 doses Oral Vaccine during 1962.....	14,011	5,107	19,118
<b>2. Reinforcing Doses</b>			<i>Total</i>
No. of persons given:—			
(a) Third injections of Salk Vaccine during 1962			24,172
(b) Fourth injections of Salk Vaccine during 1962			2,088
(c) A reinforcing dose of Oral Vaccine after:—			
(i) 2 Salk doses .....			25,933
(ii) 3 Salk doses .....			25,257
			<i>Previous</i>
			1962
			<i>years</i>
			<i>Total</i>
3. No. of persons who have received a complete course of injections/doses* since the inception of the scheme .....	46,463	36,223	82,686

\*A complete course now consists of 4 injections Salk Vaccine, 3 doses Oral Vaccine or 4 doses of Salk and Oral Vaccine.

## BEBINGTON SURVEY

In 1962, Dr. F. S. Melville, Divisional Medical Officer, Bebington Division, arranged for a sample survey of 500 houses in Bebington M.B. to ascertain the state of immunity to poliomyelitis. Dr. Melville's report on the result of the survey is given below.

A sample of 500 households was decided on as being the smallest number likely to give a reasonably accurate picture of the state of immunity in the whole borough.

A random sample was obtained by taking every 32nd house seriatim on the electoral register compiled in 1961.

Ultimately 479 households were visited out of 510. Ten of these not visited were vacant at time of survey and in the remainder no access could be obtained even after repeated visits.

479 represented in 1962, 2.83% of the total number of households (16944).

No. of households visited	479
Total number of persons in households	1485
Estimated number of persons in households (2.83% of 52980)	1499

**TABLE I**  
**COMPOSITION OF HOUSEHOLDS VISITED**

No. of Persons							Total
1	2	3	4	5	6	7 & over	
39	150	117	111	38	14	10	479

**TABLE II**  
**POLIOMYELITIS VACCINATION**  
**STATE OF MEMBERS OF SELECTED HOUSEHOLDS**

Age Group	No. of Inoculations or oral doses				Total
	3	2	1	0	
Over 40	53 (8.5)	16 (2.6)	2 (0.3)	555 (88.7)	626 (100.1)
15—39	277 (57.5)	22 (4.6)	7 (1.5)	176 (36.5)	482 (100.1)
5—14	234 (90.7)	10 (3.9)	0	14 (5.4)	258 (100)
0—4	67 (56.3)	14 (11.8)	3 (2.5)	35 (29.4)	119 (100)
<b>Total</b>	631 (42.5)	62 (4.2)	12 (0.8)	780 (52.5)	1485 (100)
Total under 40s	578 (67.3*)	46 (5.4*)	10 (1.2*)	225 (26.2*)	859 (100.1*)

\* Percentage of total of under 40's. Percentage each group in brackets.



Assuming this sample to have been truly random and, without going into too many details it appears to be from tests of size of households and age of members, it shows that almost 91% of the school-children have been fully protected and another 4% have been given some protection. This is a very satisfactory state.

56% of the under fives have been fully protected and another 12% partly protected. In this group there is inevitably a certain percentage in the middle of a course of inoculation, whilst at least 12% (those under seven months of age) would not have been old enough to begin, so that again this seems a satisfactory state.

These results for the children under fifteen would agree fairly well with the records. Where the records were deficient because so many were inoculated elsewhere was in the adults under 40 and this was the information being looked for in the survey.

To find that 57.5% of this group were fully inoculated and another 4.6% partially protected was a much higher number than anticipated.

Whilst there is still 40% of young adults then who have no protection from poliomyelitis and are personally at risk, the overall protection of the population is reasonably good.

There is no room for complacency but so long as the younger age groups are kept in as good a state of immunity in the future, the risk of epidemic poliomyelitis would seem to be very small indeed. It cannot be too strongly emphasised that poliomyelitis is a serious and dangerous illness in young adults, and those who are still not inoculated must be encouraged to get this done as soon as possible.

TABLE II  
POLIOMYELITIS VACCINATION  
STATE OF MEMBERS OF SELECTED HOUSEHOLDS

Age Group	Percentage of members in each class				Total
	0	1	2	3	
Over 40	100	0	0	0	100
35-40	100	0	0	0	100
30-35	100	0	0	0	100
25-30	100	0	0	0	100
20-25	100	0	0	0	100
15-20	100	0	0	0	100
10-15	100	0	0	0	100
5-10	100	0	0	0	100
Under 5	100	0	0	0	100
Total	100	0	0	0	100

### VACCINATION AND IMMUNISATION, 1962

The following table shows the number of children in each Division who completed a course of immunisation or vaccination during 1962 at clinics arranged by Divisional Medical Officers or by private doctors at other places.

Division	Diphtheria (only)		Diphtheria and Whooping Cough (only)		Diphtheria and Tetanus (only)		Whooping Cough Diphtheria and Tetanus (combined)		Smallpox	
	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor	Clinics	Private Doctor
Altrincham	619	39	—	—	34	30	1,137	876	1,024	6,757
Bebington	100	110	1	63	43	4	278	432	284	1,998
Cheadle and Wilmslow	604	40	—	3	—	4	451	795	—	7,619
Crewe	63	12	—	15	—	30	—	709	—	4,053
Deeside	1,085	105	1	89	—	—	114	819	195	3,181
Hyde	1	2	8	27	602	9	196	203	560	3,007
Macclesfield	38	30	—	9	99	3	238	339	196	4,336
Mid-Cheshire	—	101	—	42	—	33	—	912	—	6,572
Nantwich	109	22	—	112	—	23	—	480	—	3,272
N.E. Cheshire	412	15	3	10	33	31	199	789	132	7,271
Runcorn	19	5	—	—	121	56	220	644	2,992	5,634
Sale and Lymm	17	25	—	10	63	27	298	800	768	3,576
S.E. Cheshire	4	59	8	14	477	58	409	698	503	7,025
S.W. Cheshire	62	124	13	43	5	10	473	701	525	6,085
Stalybridge and Dukinfield	426	11	—	—	1	—	201	146	1,772	1,545
<b>TOTAL</b>	<b>3,559</b>	<b>700</b>	<b>34</b>	<b>437</b>	<b>1,478</b>	<b>318</b>	<b>4,214</b>	<b>9,343</b>	<b>8,951</b>	<b>71,931</b>

## Section IV.—Ambulance Service

The County Council is charged with a duty under Section 27 of the National Health Service Act, 1946, to provide a comprehensive Ambulance Service throughout the County free of charge to persons carried. The duty includes the provision of an emergency service for road accidents, and the transport of persons for treatment who are unfit to travel by public transport.

The Service has consolidated its position within the new administrative and operational framework. The statistics show conclusively that the operation control is working satisfactorily; in fact, almost 20,000 additional persons were carried this year for approximately the same mileage as in 1961/62. The standardization of the ambulance fleet on one chassis is allowing a speedier turn-round of vehicles in workshops and provides greater utility for the Control Officers. However, it is admitted that great care has to be taken in the use of large sitting-case vehicles to avoid inconvenience to patients by the extended out-patient journeys.

A small but important development in the radio control scheme has been the introduction of monitor receivers at area stations, the use of which enables Control to exchange information with Area Officers very quickly and this has further improved the liaison between areas and Control centres.

During the winter months the exceptionally severe weather conditions placed a considerable strain on the Ambulance Service and it is a pleasure to report that all emergency and accident calls were answered satisfactorily although ambulances had to be dug out and in some cases preceded by snow-ploughs. The work of the ambulance staff during this period earned the special commendation of the County Council.

The winter was marred by a disastrous railway accident two miles north of Crewe on the evening of Boxing Day, when eighteen people were killed and thirty-six injured. The County Ambulance Service responded magnificently with the result that all the injured were in hospital within ninety minutes of the initial emergency call being received and extra nursing staff from Northwich and Macclesfield had been taken to re-inforce the Crewe Memorial Hospital.

Automatic telephone answering machines have been introduced in the two Ambulance Controls. These machines are attached to an ex-directory telephone number, and Hospitals and General Practitioners are asked to telephone the machines when wishing to pass non-urgent information. The use of the machines has resulted in a reduction in peak period telephone calls in Controls and the reception of improved messages in a shorter time. Similar machines are attached to emergency telephones so that the Service has a taped record of all conversations in connection with emergency calls. This facility has proved useful on a number of occasions.

The County Ambulance Service Competition this year was held at the Ellesmere Port County Grammar School when some two-hundred people watched twelve volunteer teams compete for the silver Cup awarded by the Chairman of the County Council, which was won by the Hyde team. This annual event is looked forward to by the whole staff and together with the Competition for the McBirnie Shield, has created a high standard of morale throughout the Service.

Training of ambulance personnel has been undertaken at the Altrincham Ambulance Station, and I am indebted to the assistance given by the Altrincham Branch of the Casualties Union, Dr. Michael Allen, Consultant Radiologist, North and Mid. Cheshire Hospital Management Group and General Practitioners in the area, for the enthusiastic contribution they have made towards this training. At the time of writing, an ambulance training centre together with a new Ambulance Station is under construction at Northwich, where training will be further developed in the form of a permanent school to which other local Authorities Ambulance Service personnel may be invited.

The Ambulance and First Aid Section of the Civil Defence organisation has now received a total of twenty-two purpose built ambulances for training purposes. These smart vehicles have led to an increased recruitment in the Section and the standard of training is very high. In anticipation of Standard Tests, a Competition was organised in the form of a knock-out quiz contest, which continued from December to the end of March. The enthusiastic reception of this event by the volunteers not only improved training standards but has led to improved recruitment, and the contest will now be an annual event.

*Staff at 31st March, 1963, was:—*

Supervisory Staff	.....	27
Control Staff	.....	13
Mechanics	.....	6
Driver/Attendants	.....	176 (Plus 12 part-time retained staff).
Others	.....	5

The following new vehicles were taken into Service:—

<i>Reg. No.</i>	<i>Make</i>	<i>Year</i>	<i>Delivered to</i>	<i>Date</i>
155 XMB	Morris	1962	Cheadle Hulme	2/11/62
156 XMB	Morris	1962	Macclesfield	9/11/62
157 XMB	Morris	1962	Macclesfield	9/11/62
158 XMB	Morris	1962	Altrincham	20/11/62
159 XMB	Morris	1962	Altrincham	22/11/62
160 XMB	Morris	1962	Altrincham	22/11/62
161 XMB	Morris	1962	Hazel Grove	23/11/62
169 XMB	Morris	1962	Ellesmere Port	10/11/62
170 XMB	Morris	1962	Bebington	13/11/62
171 XMB	Morris	1962	Heswall	13/11/62
172 XMB	Morris	1962	Bebington	20/11/62
173 XMB	Morris	1962	Crewe	16/11/62
174 XMB	Morris	1962	Crewe	20/11/62
175 XMB	Morris	1962	Ellesmere Port	28/11/62

The following schedule shows the work done by the service for the financial year 1962-63:—

ITEM (1)	Directly Provided Service (2)			Supplementary Service (including Hospital Car Service). (3)				Transport by Rail (4)	
	Amb.	S.C.A.	S.C.C.	Total	Amb.	S.C.A.	S.C.C.		Total
1. No. of persons carried (excluding relatives, escorts and friends)									
(a) Section 27 patients									
(i) Accident or Emergency	17,582		—	17,582	—	—	—	—	—
(ii) Others	267,063		—	267,073	4,718	—	6,258	10,976	286
(iii) Total of (i) and (ii)	284,655		—	284,655	4,718	—	6,258	10,976	286
(b) Other persons, e.g. persons taken to day nurseries, welfare institutions, occupational centres, L.H.A. clinics, special schools, etc.	12,100		—	12,100	—	—	—	—	—
(c) Grand total i.e. (a) (iii) and (b)	132,086	164,669	—	296,755	4,718	—	6,258	10,976	286
2. No. of journeys by vehicles									
(a) Patient carrying journeys	55,508		—	55,508	214	—	2,398	2,612	286
(b) Abortive and service journeys	2,621		—	2,621	—	—	—	—	—
(c) Journeys for transport of analgesia apparatus, midwives, home nurses, etc.	377		—	377	—	—	—	—	—
(d) Total of (a) (b) and (c)	35,538	58,506	—	58,506	214	—	2,398	2,612	286
3. Total mileage (incl. that in respect of 1 (b))	855,766	926,515	—	1,782,281	4,036	—	47,633	51,669	50,050

Population of service area ..... 886,750  
 Acreage of service area ..... 596,667

No. of ambulance stations ..... 18  
 No. of Ambulances ..... 42  
 No. of Dual Purpose Vehicles ..... 46

## Section V.-Prevention of Illness, Care and After-care

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### General

Section 28 of the National Health Service Act, 1946, gives permissive powers to the County Council to make a scheme for prevention of illness, and for the care and after-care of persons suffering from illness. The County Council has a duty to make detailed arrangements for any disease the Ministry may specify, and in this connexion tuberculosis has been so specified.

The arrangements under this section of the Act are among those which for organisation and management, within the approved estimates, have been devolved to Divisional Health Committees.

### TUBERCULOSIS

Consultant Chest Physicians, the main part of whose work at chest clinics passed to the Regional Hospital Boards on the appointed day, are part-time officers of the County Council, and give Divisional Medical Officers all necessary advice in the sphere of care and after-care; Health Visitors pay home visits to tuberculosis patients and help to secure the attendance of contacts at the clinics. The loan of large items such as beds and garden shelters, and the supply of smaller items such as sputum flasks, form part of the general scheme for the provision of nursing equipment, of which details are given later.

Wrenbury Hall Industrial Training Colony has continued under the full ownership and control of the County Council. One trainee was admitted in 1962 for industrial rehabilitation. At the end of the year there were 20 colonists living in the hostel, and 3 married colonists living with their families in cottages on the estate. Four colonists were living outside the estate. During 1962, 13 colonists and trainees were inspected and treated by County Dental Surgeons.

The following tables will enable a comparison to be made between 1962 and previous years in respect of the incidence of, and mortality due to, tuberculosis.

### Tuberculosis Statistics

	1962	1961	1960
New cases notified (primary)			
Pulmonary .....	234	232	210
New cases notified (primary)			
Non-pulmonary .....	33	35	34
	<hr/>	<hr/>	<hr/>
Total .....	267	267	244
	<hr/>	<hr/>	<hr/>

No. of cases remaining on Registers of Notifications kept by District M.O's.H., December 31st .....	5106	5212	5245
No. of Deaths from all forms of Tuberculosis .....	43	47	44
Death-rate from all forms of Tuberculosis per 1,000 of the population .....	0.05	0.05	0.05

*Table relating to Tuberculosis in children under 16 :*

Year	Number of Children notified as suffering from Pulmonary Tuberculosis	Number of Children notified as suffering from Non-Pulmonary Tuberculosis	Percentage of Total Notifications	
			Pulmonary	Non-Pulmonary
1953	55	45	12.7	55.6
1954	46	54	12.4	62.1
1955	45	38	10.4	51.3
1956	40	30	10.2	44.1
1957	18	26	4.8	40.6
1958	17	15	5.5	34.9
1959	13	8	5.6	30.8
1960	11	12	5.2	35.3
1961	33	13	14.2	37.1
1962	33	10	14.1	30.3

Table showing primary notifications and deaths from Tuberculosis during past 20 years:—

Year	Primary notifications	Deaths	Death rate per 1,000 population
1943	685	339	·46
1944	734	332	·45
1945	669	302	·41
1946	510	310	·40
1947	655	296	·38
1948	601	279	·35
1949	565	266	·33
1950	582	195	·24
1951	546	181	·22
1952	568	146	·18
1953	514	104	·12
1954	458	113	·13
1955	505	90	·11
1956	460	106	·12
1957	435	83	·10
1958	351	66	·08
1959	256	57	·06
1960	244	44	·05
1961	267	47	·05
1962	267	43	·05



The 1962 deaths are made up as follows :—

	Male	Female	Total
Pulmonary — — —	33	7	40
Non-Pulmonary — — —	1	2	3
	<u>34</u>	<u>9</u>	<u>43</u>

Death Rates, 1962—

All forms	.046 per 1000 of population
Pulmonary	.042 per 1000 of population
Non-Pulmonary	.003 per 1000 of population

*Summary of Notifications during the period from the 1st January, 1962, to the 31st December, 1962*

PART I.

FORMAL NOTIFICATIONS

Age Periods	Number of Primary Notifications of new cases of tuberculosis													Total (age)
	0-	1-	2-	5-	10-	15-	20-	25-	35-	45-	55-	65-	75-	
Respiratory, Males	1	—	—	3	3	9	9	21	19	29	33	8	3	1
„ Females	—	1	—	4	5	7	11	20	17	12	13	3	3	
Non-respiratory, Males	—	—	1	2	2	1	1	2	1	3	—	1	—	
„ Females	—	—	1	—	2	1	5	2	3	—	2	1	2	

PART II.—New cases of Tuberculosis coming to the knowledge of the Medical Officer of Health during the above-mentioned period, otherwise than by formal notification.

Source of Information	Number of Cases	
Death Returns from Local Registrars—	Respiratory	22
	Non-Respiratory	1
Death Returns from Registrar-General (Transferable deaths)	Respiratory	15
	Non-Respiratory	—
Posthumous Notifications	Respiratory	1
	Non-Respiratory	—

## Contacts

During the year 1962, approximately 2,459 contacts of tuberculous patients were examined by Chest Physicians, with the co-operation of the health visitors, who visited their homes whenever necessary. Particulars were sent as usual to the Physicians of all tuberculosis deaths (whether of notified or unnotified cases) to assist in arrangements for contact examination.

## Mass Miniature Radiography

During 1962 Mass Miniature Radiography Units from the Liverpool and Manchester Regional Hospital Boards visited seventeen areas in Cheshire, and details of the numbers examined and the abnormalities detected are given below.

<i>Area</i>	<i>Type of Examinee</i>	<i>Total Number Examined</i>	<i>No. of cases of active T.B. detected</i>
<i>Liverpool Unit—</i>			
County Hall and Backford Hall	Administrative Staff	685	—
Ellesmere Port	Industry	1,101	—
Neston	Industry	382	—
Bromborough and Eastham	Industry	2,096	5
Hoylake	Industry	144	—
Helsby	Industry and General Public	1,463*	—
Runcorn	Industry and General Public	7,776*	5
Frodsham	Industry and General Public	154*	—
Tattenhall, Farndon and Malpas	General Public	472	—
Heswall	Industry and General Public	99	—

\*Concentrated street by street surveys were held in these areas.

## *Manchester Unit—*

Stalybridge	Industry and General Public	5,620	8
Altrincham, Hale and Bowdon	Industry and General Public	12,840	16
Sale	Industry and General Public	4,890	2
Nantwich, Audlem, Willaston and Wrenbury	General Public and Teachers' Training College Students	3,806	2

<i>Area</i>	<i>Type of Examinee</i>	<i>Total Number Examined</i>	<i>No. of cases of active T.B. detected</i>
Knutsford	Industry and General Public	2,653	3
Macclesfield and Bollington	Industry and General Public	9,230	9
Hazel Grove and Disley	Industry and General Public	3,157	3

Classification of cases diagnosed:—

(a) Active tuberculosis requiring treatment .....	53
(b) Tuberculosis requiring occasional supervision .....	188
(c) Carcinoma .....	26
(d) Other abnormalities .....	500

### **B.C.G. Vaccination**

The County Council's proposals under Section 28 of the National Health Service Act, 1946, for B.C.G. vaccination of contacts of tuberculous persons were approved by the Minister in 1949. They provided for B.C.G. vaccination of contacts of patients suffering from tuberculosis, such contacts being found by medical tests to be capable of receiving protection from tuberculosis, as a result of the vaccination. In 1954, the Minister gave approval to the scheme being extended to provide for the B.C.G. vaccination of children between 13 and 14 years of age. In 1959, the scheme was further extended to allow for the arrangements to cover school children of 14 years and upwards and also students attending Universities, teacher training colleges and technical colleges, or other establishments of further education.

During 1962, the chest physicians vaccinated 819 cases, and the Divisional Medical Officers vaccinated 174 cases, under the contact scheme. In addition to these, 1,936 new-born infants were vaccinated.

Divisional Medical Officers and Assistant County Medical Officers vaccinated 7,016 school children and 28 students during the year and details of the work carried out under the schemes are:—

#### *School Children Scheme*

Number of consent forms issued .....	12,191		
Number of consents received .....	9,478		
	<i>Number tested</i>	<i>+ve</i>	<i>-ve</i>
Skin tests .....	9,235	1,947	7,040
Follow-up skin test (12 months) .....	6,847	6,239	476
Number vaccinated with B.C.G. ....			7,016
Number re-vaccinated with B.C.G. ....			1,223

<i>Contact Scheme</i>	<i>County Staff</i>	<i>Chest Physicians</i>	<i>Total</i>
Number skin tested	196	1,342	1,538
Number found positive	26	521	547
Number found negative	170	731	901
Number vaccinated	174	819	993

Since the start of the Contact Scheme in 1950, and the School Children Scheme in 1954, the following numbers have been vaccinated

*Contacts*

By Chest Physicians	7,458
By Divisional Medical Officers	1,702

*School Children*

By Divisional Medical Officers and Assistant County Medical Officers	55,138
--	--------

*Students*

By Divisional Medical Officers and Assistant County Medical Officers	1,519
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*Babies*

At Hospitals and Clinics	9,521
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Total 75,338

*School Entrants and B.C.G.*

Mantoux tests were carried out in the Macclesfield and North-East Cheshire Divisions on school entrants with the following results:—

<i>Division</i>	<i>No. of school entrants</i>	<i>Consents received</i>	<i>Positive test</i>	<i>Negative test</i>	<i>Had B.C.G. vaccine in infancy</i>
Macclesfield	542	387	14	258	2
N.E. Cheshire	800	515	7	423	5

MENTAL ILLNESS

The care and supervision of patients at home suffering from mental illness was carried out by Mental Welfare Officers. Arrangements are made, in suitable cases, for help to be given by other County services, such as Home Nursing and Domestic Help.

Details of the Mental Health Service are given in Section VIII later in this Report.

## CO-OPERATION WITH HOSPITALS AND GENERAL PRACTITIONERS

Liaison has been continued with the Almoners and other appropriate officials of general hospitals so that discharged patients requiring help from any of the County Health Services may secure it without delay. All hospitals have been supplied with forms on which they can send a request to the Divisional Medical Officer for any of the County Health services when a patient is discharged from hospital. The services of a domestic help and a district nurse are also available on request from the general practitioner to help a mother to nurse a child at home and avoid the admission of the child to hospital.

At two large hospitals in the County, health visitors attend the Geriatric clinics to provide information for the specialists and to receive information which is passed on to the health visitors for the districts in which the patients live. Similar arrangements exist at other hospitals in the County at clinics conducted by Paediatricians and Chest Physicians.

It is not practicable for a health visitor to be attached to each general practitioner in Cheshire, as there are many more doctors than health visitors, but all practitioners have received full details of the help which health visitors can give and have been told where health visitors can be contacted between 9 and 9-30 a.m. each day. Each practitioner has also received one of the eight separate editions of a guide for general practitioners, setting out details of the County services available in his own area, together with other useful information.

### PROBLEM FAMILIES

Another aspect of "care" is the investigation of "problem families" with a view to effecting any possible improvement and granting any appropriate help.

### HEALTH EDUCATION

An important aspect of "prevention of illness" is health education, and details of the ways in which this is carried out are given below. Routine health education is given by members of the staff, particularly the health visitors, to individuals and small groups, and supplies of leaflets and books are available at the Infant Welfare Centres, Ante-natal and Young Children's clinics. At the clinic centres a variety of posters are also displayed. The subjects covered are concerned with home safety, the care of babies and young children, and vaccination and immunisation. Comment is made (page 78) on Health Education for expectant mothers and the parents of young children.

The Divisional Medical Officers are continually being called on to give lectures to local organisations on such subjects as home accidents, coronary thrombosis, mental health, smallpox, and the connection between tobacco smoking and lung cancer. Courses on First Aid were also arranged. The health visitors are much in demand for lectures to mothercraft classes and young wives' associations, etc.

Each division has a filmstrip projector, and there are at present about 200 filmstrips on about seventy different subjects available in the County for use in any division. The subjects covered include prevention of illness, home safety, nutrition, mental health, care of babies, vaccination and immunisation, personal and home hygiene. Another form of visual aid used at lectures is the flannelgraph, and there are a variety of subjects covered by this form of display.

At County headquarters a stock is kept of approximately 100 different leaflets on a large variety of subjects for issue free to the public through the Divisional Medical Officers and the health visitors. The Divisional Medical Officers make great use of the birthday card, which is a message from the Medical Officer of Health to parents of children reaching their first birthday and gives general advice.

### **Cancer Education**

Increasing efforts are being made to educate the public about cancer, and the County Health Committee makes a large contribution to the cost of the work carried out by the Manchester Committee on Cancer, which operates in that area of the County covered by the Manchester Regional Hospital Board.

The committee's skilled lecturers—mostly doctors who are specialists in cancer at the Christie Hospital—are available to any club or society, free of charge, to speak about the hopeful side of cancer and answer questions. During 1962 the committee arranged 144 such talks in Cheshire.

The films "From One Cell" and "To Smoke or Not to Smoke" are available on free loan to any school in the area. The committee's officers are also ready to offer advice to any schools wishing to incorporate basic information about cancer into science subjects and, if necessary, to supply expert speakers. 20 schools and youth clubs in the county made use of the services in 1962, and, in addition, copies of the Penguin book "Common Sense About Smoking" have been supplied, free of charge, to every secondary school head-teacher and every schools medical officer. From the letters of acknowledgement it is clear that many schools are finding this excellent book of great help in passing on to children information about the dangers of smoking.

The Committee's Mobile Unit was acquired to bring information to those people who belong to no club or society, and who would otherwise have no opportunity of hearing one of the speakers. 370 talks and film shows have been given in factories in the region to date.

In 1961, the formation of a similar organisation for the Liverpool area was approved when the local authorities concerned agreed on the constitution of the Committee for Education of the Public on Merseyside. The County Health Committee has approved a grant to the Committee, a lay administrator has been appointed and it started to operate in 1963.

## Home Safety

The formation of local Home Safety Committees, on which representatives of the Divisional Health Committees could serve, if necessary, has been left to voluntary societies. The County Health Committee has already made grants to four such societies, at Bebington, Nantwich, Hazel Grove and Sale.

Eight editions of a Home Safety handbook are distributed to the public showing the ways in which accidents in the home occur and the ways in which they can be avoided. The handbooks also give details of the services available in each of the eight areas.

Health education is also furthered by displaying the work of the department on stalls whenever the opportunity occurs at agricultural shows and other public exhibitions.

## NURSING EQUIPMENT

Stocks of nursing equipment are held by District Nurses and by Divisional Medical Officers for loan to patients needing them, subject to a small deposit charge in the case of the more expensive items. Examples of the small items normally kept by District Nurses are urinals, hot water bottles, bed pans, feeding cups, sputum flasks, steam kettles, air rings and back rests.

Divisional Medical Officers make available larger items of equipment such as mattresses, beds, bed cradles, crutches, rubber sheets, etc., and keep reserve stocks of the items held by the Home Nurses. Bedding is also kept for issue in special cases, *e.g.*, when a patient's small stock has to be taken away for disinfection or disinfestation, or to provide for house isolation of patients.

The following table gives the main items held by Divisional Medical Officers or in stock at Winsford store:—

Bedpans, Rubber	Hoists
Bedpans, large	Hospital type beds
Bedpans, medium	Pulley attachments for
Bedpans, small	hospital type beds
Toilet seats, inflatable	Hospital type cot beds
Rings, foam rubber	Mattresses, foam rubber
Rings, air	Air/Water beds
Urinals, male	Walking aids
Urinals, female	Electric blanket
Beds, ordinary	Wheelchair, motorised
Bed Cradles	Special Beds with various
Mattresses	attachments
Bed Trays	Mobile invalid seat
Blankets	Travelling folding wheelchair

Sheets	Leg extension to standard
Draw Sheets	type wheelchair
Pillows	7 in 1 walking and
Pillow cases	exercising aid
Commodes	Spastic chairs
Douche pans	Wheelchairs, push type
Sputum cups	Wheelchairs, capable of
Paper handkerchiefs	being propelled by patient
Breast pumps	Self-lifting poles
Stair carriage	Enuresis alarms
Crutches	Spinal carriage
Rubber sheets	T.B. Shelters
Feeding cups	Folding triangular frame
Steam kettles	Ejector seat
Hot water bottles	Fracture boards
Back rests	Toilet seat aid
Sputum flasks	Bath aids
Walking sticks	Bath steps
Disposable underpads	Bath, special mat

#### RECUPERATIVE CONVALESCENCE

During the year 1962, 132 patients were sent for recuperative convalescence for periods of between two and eight weeks. Contributions were paid by the patients towards the cost of this convalescence in accordance with the County scale. Twelve of the cases were mothers and children sent to the Brentwood Recuperative Centre, Marple. This centre caters mainly for women of limited resources with young children who need a period of recuperation following hospital treatment, mental and physical distress arising from difficult domestic circumstances, bad housing, etc., or prior and subsequent to confinement. The distribution of cases throughout the County was as follows:—

Division	No. of Cases	Division	No. of Cases
Altrincham	15	Nantwich	8
Bebington	4	North East Cheshire	4
Cheadle and Wilmslow	2	Runcorn	6
Crewe	19	Sale and Lymm	10
Deeside	4	South East Cheshire	6
Hyde	20	South West Cheshire	5
Macclesfield	4	Stalybridge & Dukinfield	18
Mid-Cheshire	7		

Also under Section 28, 73 mentally subnormal children were found accommodation for short periods during the year.



## SPECIAL LAUNDRY

This service is available for incontinent aged and handicapped persons who are receiving the attention of a home help or a domiciliary nurse. Special bags are provided in which the bundle of dirty clothing is placed. It is collected, and the normal practice is to deliver it to the nearest hospital which has agreed to carry out the laundering of the articles. Patients pay according to their means, with a maximum charge of 5s. 0d. per bundle, although these charges can be varied in exceptional circumstances. The following work under this heading was carried out during the year:—

Patients	Number of Bags	Charges to Patients		
		Full	Half	Nil
17	262	5	3	9

The supply of disposable underpads free of charge to patients receiving the services of a district nurse has considerably reduced the demand on the special laundry service.

## SITTERS-IN

Facilities exist to supplement, in specially approved cases, the Domestic Help service by means of night sitters-in.

## CHIROPODY SERVICE

Details of the County Chiropody Service, which has been in operation since 1/10/59, are as follows:—

- (a) The service is available to persons over the age of 65 years, physically handicapped persons and expectant mothers recommended for treatment by their family doctor or the district nurse.
- (b) All chiropodists holding a qualification laid down in the National Health Service (Medical Auxiliaries) Regulations, 1954, are entitled to take part, giving treatment in their own premises or in the patient's own home.
- (c) Persons entitled to the service may attend any registrable chiropodist of their own choice who is willing to take part in the scheme.
- (d) A patient unable to travel to the Chiropodist's surgery may have the treatment carried out at home and for this the Chiropodist receives an extra fee.
- (e) The fees for treatment on the premises of a Voluntary Society are paid direct to the Society which makes its own arrangements with the Chiropodist.
- (f) The Authority pays the whole of the fees in respect of persons in receipt of National Assistance benefit or whose sole income is the statutory retirement pension.

The following scale of aid was in operation in 1962:—

Free treatment—	Those in receipt of National Assistance benefit or whose income does not exceed £4 3s. 6d. per week in the case of single persons, or £6 5s. 0d. per week in the case of married persons
Half cost paid by Cheshire County Council	When income between £4 3s. 6d. and £5 13s. 6d. per week in the case of single persons. When income between £6 5s. 0d. and £8 5s. 0d. per week in the case of married persons.

The Divisional Health Committees have power to vary these payments in exceptional or necessitous cases.

In agreement with representatives of the Chiropodists, only six treatments are authorised under the County scheme in the first six months after approval is given to an application for treatment. Following that, six treatments can be approved within the ensuing twelve months. The Divisional Medical Officers are able to authorise more frequent treatments in exceptional cases.

The table overleaf gives details of the work carried out during 1962.

	1961	1962	1963	1964	1965	1966	1967	1968	1969	1970	1971	1972
(6) Excessive pressure	174	219	103	920	103	920	103	920	103	920	103	920
(9) Excessive pressure	4000	53024	5200	17307	5200	17307	5200	17307	5200	17307	5200	17307
Capital of benefits	2064	55301	5305	14745	5305	14745	5305	14745	5305	14745	5305	14745
Spinalgia and Osteoarthritis	176	802	140	323	140	323	140	323	140	323	140	323
D. M. Chiropractic	555	1941	585	1320	585	1320	585	1320	585	1320	585	1320
D. P. Chiropractic	553	1510	183	985	183	985	183	985	183	985	183	985
Other and Various	583	1222	101	275	101	275	101	275	101	275	101	275
Benign	143	340	314	1501	314	1501	314	1501	314	1501	314	1501
M.E. Chiropractic	281	3100	155	689	155	689	155	689	155	689	155	689
Neurology	50	331	36	303	36	303	36	303	36	303	36	303
Minor-Chiropractic	441	3209	130	603	130	603	130	603	130	603	130	603
Chiropractic	521	1320	169	845	169	845	169	845	169	845	169	845
Hand	581	1651	300	5212	300	5212	300	5212	300	5212	300	5212
Diverse	131	811	178	611	178	611	178	611	178	611	178	611
Cases	445	5361	133	659	133	659	133	659	133	659	133	659
Chiropractic and Massage	500	3450	150	1430	150	1430	150	1430	150	1430	150	1430
Rehabilitation	68	364	343	1040	343	1040	343	1040	343	1040	343	1040
Physiotherapy	113	1050	143	337	143	337	143	337	143	337	143	337
Chiropractic	5000	10000	5000	10000	5000	10000	5000	10000	5000	10000	5000	10000
Chiropractic	5000	10000	5000	10000	5000	10000	5000	10000	5000	10000	5000	10000

CHIROPODY SERVICE 1962

Division	Place of Treatment						Total		Fees paid by C.C.C.	
	Chiropracist's Surgery		Home of Patient		Club		Cases	Treatments	Full	Part
	Cases	Treatments	Cases	Treatments	Cases	Treatments				
Altrincham	317	1626	143	533	13	63	473	2222	414	59
Bebington	68	394	354	1649	—	—	422	2043	363	59
Cheadle and Wilmslow	596	3479	179	1438	90	588	865	5505	796	69
Crewe	442	2393	137	628	—	—	579	3021	524	55
Deeside	137	874	118	611	2	12	257	1497	220	37
Hyde	283	1623	390	2315	19	117	692	4055	647	45
Macclesfield	251	1350	166	842	—	—	417	2192	373	44
Mid-Cheshire	441	2206	130	602	—	—	571	2808	485	86
Nantwich	79	371	39	207	23	77	141	655	136	5
N.E. Cheshire	381	2196	172	986	—	—	553	3182	507	46
Runcorn	149	749	214	1201	—	—	363	1950	338	15
Sale and Lymm	282	1575	101	512	—	—	383	2087	320	54
S.E. Cheshire	277	1219	183	682	92	430	552	2331	510	42
S.W. Cheshire	372	1841	287	1379	—	—	659	3220	619	40
Stalybridge and Dukinfield	130	895	149	757	—	—	279	1652	270	9
<b>TOTALS</b>	<b>4,205</b>	<b>22,791</b>	<b>2,762</b>	<b>14,342</b>	<b>239</b>	<b>1,287</b>	<b>7,206</b>	<b>38,420</b>	<b>6,522</b>	<b>665</b>
<b>Category of patients:—</b>	<b>4,069</b>	<b>22,074</b>	<b>2,569</b>	<b>13,383</b>	<b>225</b>	<b>1,238</b>	<b>6,863</b>	<b>36,695</b>		
(a) Over 65 years	135	716	193	959	14	49	342	1724		
(b) Physically handicapped	1	1	—	—	—	—	—	1		
(c) Expectant Mothers	—	—	—	—	—	—	—	—		



	Scarlet Fever	Whooping Cough	Acute Poliomyelitis Paralytic	Acute Poliomyelitis Non-Paralytic	Measles (excluding Rubella)	Diphtheria	Acute Pneumonia	Dysentery	Smallpox	Acute Encephalitis Infective
Altrincham M.B.	5	—	—	—	365	—	9	249	—	—
Bebington M.B.	17	11	1	—	607	—	15	346	—	—
Congleton M.B.	—	3	—	—	2	—	13	—	—	—
Crewe M.B.	62	5	—	—	67	—	—	5	—	—
Dukinfield M.B.	4	2	—	—	51	—	—	97	—	—
Ellesmere Port M.B.	7	21	—	—	904	—	—	152	—	—
Hyde M.B.	48	3	—	—	69	—	—	17	—	—
Macclesfield M.B.	27	2	—	—	127	—	9	14	—	—
Sale M.B.	27	5	1	—	359	—	2	9	—	—
Stalybridge M.B.	11	18	—	—	122	—	2	31	—	—
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Alderley Edge U.D.	—	1	—	—	2	—	—	—	—	—
Alsager U.D.	—	—	—	—	—	—	6	3	—	—
Bollington U.D.	2	—	—	—	5	—	2	—	—	—
Bowdon U.D.	1	—	—	—	45	—	4	—	—	—
Bred. and Rom. U.D.	13	—	—	—	58	—	—	8	—	—
Cheadle and Gatley U.D.	20	17	—	—	575	—	—	2	—	—
Hale U.D.	—	—	—	—	33	—	4	14	—	—
Hazel Grove and Bramhall U.D.	7	—	—	—	62	—	—	—	—	—
Hoylake U.D.	5	8	—	—	147	—	3	8	—	—
Knutsford U.D.	2	—	—	—	4	—	—	—	—	—
Longdendale U.D.	1	1	—	—	8	—	2	2	—	—
Lymm U.D.	—	—	—	—	—	—	—	—	—	—
Marple U.D.	6	—	—	—	106	—	1	—	—	—
Middlewich U.D.	—	—	—	—	—	—	—	—	—	—
Nantwich U.D.	1	5	—	—	85	—	—	—	—	—
Neston U.D.	4	—	—	—	159	—	4	7	—	—
Northwich U.D.	12	—	—	—	185	—	8	1	—	—
Runcorn U.D.	5	—	—	—	36	—	—	—	—	—
Sandbach U.D.	23	—	—	—	4	—	—	—	—	—
Wilmslow U.D.	—	—	—	—	35	—	3	8	—	—
Winsford U.D.	1	—	—	—	23	—	4	—	—	—
Wirral U.D.	1	8	1	—	45	—	2	13	—	—
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Bucklow R.D.	3	—	—	—	26	—	1	43	—	—
Chester R.D.	5	3	1	—	35	—	2	26	—	1
Congleton R.D.	6	—	—	—	9	—	7	5	—	—
Disley R.D.	—	—	—	—	10	—	—	—	—	—
Macclesfield R.D.	6	—	—	—	8	—	4	13	—	—
Nantwich R.D.	16	10	—	—	27	—	1	4	—	—
Northwich R.D.	13	—	—	—	112	—	3	5	—	—
Runcorn R.D.	4	—	—	—	146	—	4	5	—	—
Tarvin R.D.	21	2	—	—	46	—	11	—	—	—
Tintwistle R.D.	—	—	—	—	53	—	—	—	—	—
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TOTAL,	386	125	4	—	4762	—	126	870	—	1

	Acute Encephalitis Post Infectious	Enteric or Typhoid Fever	Paratyphoid Fever	Erysipelas	Meningococcal Infection	Food Poisoning	Tuberculosis Respiratory	Tuberculosis Meninges and C.N.S.	Tuberculosis Other	Puerperal Pyrexia	Ophthalmia Neonatorum
Altrincham M.B.	—	—	—	—	—	4	23	—	1	3	—
Bebington M.B.	—	1	—	3	1	8	20	—	3	—	—
Congleton M.B.	—	—	—	1	—	—	1	—	1	—	—
Crewe M.B.	—	—	—	3	—	—	19	—	2	—	—
Dukinfield M.B.	—	—	—	—	1	1	22	—	2	—	—
Ellesmere Port M.B.	—	1	—	2	—	—	11	—	1	2	—
Hyde M.B.	—	—	—	1	1	3	8	—	3	4	—
Macclesfield M.B.	—	—	—	1	2	—	7	—	—	7	—
Sale M.B.	—	—	—	1	—	—	13	—	2	2	—
Stalybridge M.B.	—	—	—	2	1	4	10	—	2	—	—
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Alderley Edge U.D.	—	—	—	—	—	—	1	—	—	—	—
Alsager U.D.	—	—	—	1	—	—	—	—	—	—	—
Bollington U.D.	—	—	—	2	—	1	—	—	—	—	—
Bowdon U.D.	—	—	—	—	—	—	2	—	—	—	—
Bred. and Rom. U.D.	—	—	—	—	—	—	2	—	1	—	—
Cheadle and Gatley U.D.	—	—	—	—	1	1	8	—	—	—	—
Hale U.D.	—	—	—	—	—	—	1	—	1	—	—
Hazel Grove and Bramhall U.D.	—	—	—	—	—	1	2	1	1	—	—
Hoyle U.D.	—	—	—	—	—	—	9	—	—	—	—
Knutsford U.D.	—	—	—	—	—	—	—	—	1	—	—
Longdendale U.D.	—	—	—	—	—	—	—	—	1	—	—
Lymm U.D.	—	—	—	—	—	—	2	—	—	—	—
Marple U.D.	—	—	—	—	—	—	4	—	2	—	—
Middlewich U.D.	—	—	—	—	—	—	1	—	—	—	—
Nantwich U.D.	—	—	—	—	—	—	5	—	—	3	—
Neston U.D.	—	—	—	—	—	—	4	—	—	—	—
Northwich U.D.	—	—	—	—	1	—	3	—	—	—	—
Runcorn U.D.	—	—	—	1	—	—	9	—	—	1	—
Sandbach U.D.	—	—	—	1	—	—	1	—	—	—	—
Wilmslow U.D.	—	—	—	—	—	—	3	—	—	—	—
Winsford U.D.	—	—	—	—	—	—	3	—	—	—	—
Wirral U.D.	—	—	—	2	—	3	10	—	2	—	—
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Bucklow R.D.	—	—	—	—	—	—	3	—	1	—	—
Chester R.D.	—	1	—	2	—	5	6	—	—	—	—
Congleton R.D.	—	—	—	—	—	1	—	1	—	—	—
Disley R.D.	—	—	—	—	—	—	2	—	—	—	—
Macclesfield R.D.	—	—	—	—	—	—	1	—	—	—	—
Nantwich R.D.	—	—	—	—	—	—	9	—	3	1	—
Northwich R.D.	—	—	—	—	—	—	4	1	—	1	—
Runcorn R.D.	—	—	—	4	—	1	5	—	—	—	—
Tarvin R.D.	—	—	—	—	—	—	—	—	—	—	—
Tintwistle R.D.	—	—	—	—	—	—	—	—	—	—	—
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TOTAL	—	3	—	27	8	33	234	3	30	24	—

The following Table shows the variation in notifications of the principal Infectious Diseases during the past ten years:—

Notifications	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953
Measles	4762	13645	3681	11809	4504	11048	3218	10450	6361	7537
Scarlet Fever	386	439	693	1049	958	561	733	688	1033	1232
Whooping Cough	125	294	1072	729	367	1046	1877	1210	1368	3080
Poliomyelitis	4	18	9	14	31	35	131	57	29	53
Diphtheria	0	0	1	0	1	2	0	0	1	6
Smallpox	0	0	0	0	5	0	0	0	0	0
Tuberculosis:—										
Pulmonary, all ages	234	219	210	230	308	374	392	431	393	433
Non-pulmonary, all ages	33	41	34	26	43	61	68	74	87	81
Pulmonary, Children under 15	17	22	11	13	17	18	40	45	46	55
Non-pulmonary, Children under 15	8	11	12	8	15	26	30	38	54	45

# Section VI.-Mothers and Young Children

## Health Visiting, etc.

### General

The County Council's responsibilities under Sections 22 and 24 of the National Health Service Act, 1946, are in the main a continuation of work which has been done for many years, though the Health Visitors' services are now also used to carry out the Council's schemes for prevention of illness, after-care, and handicapped persons.

### Health Visiting

Number of Health Visitors employed—31.12.1962	—	—	—	—	118
Equivalent whole-time H.V. Services provided	—	—	—	—	83

#### NUMBER OF VISITS PAID BY HEALTH VISITORS DURING THE YEAR.

Number of children under 5 years of age visited	—	—	—	—	79,601
Expectant Mothers—					
First Visits	—	—	—	—	4,651
Total Visits	—	—	—	—	7,492
Children under one year of age—					
First Visits	—	—	—	—	18,181
Total Visits	—	—	—	—	100,888
Children aged 1 and under 2 years—					
Total Visits	—	—	—	—	53,378
Children aged 2 but under 5 years—					
Total Visits	—	—	—	—	73,042
Tuberculosis Households—					
Total Visits	—	—	—	—	4,441
Other cases—					
Total visits	—	—	—	—	21,223
Total number of households or families visited	—	—	—	—	69,980
Number of clinic sessions attended	—	—	—	—	15,836

### Notification of Births

The distribution of the births to Cheshire mothers notified under the Public Health Act, 1936, was as follows :—

Domiciliary	Nursing Homes	Hospitals
5436	190	11316



## Premature Infants

Particular attention is devoted to babies weighing  $5\frac{1}{2}$  lbs. or less at birth, and special cots with bedding, hot water bottles, etc., are kept in readiness. 1031 premature live babies were born in the year under review, whose mothers normally live in the Authority's area, 183 at home and 848 in hospitals or nursing homes. Of these 889 survived 28 days. The details are:—

	Number of Live Births	Died within 24 hours	Died 1—28 days	Survived 28 days
Born in Hospital	843	65	59	719
Born at home and				
(a) Nursed entirely at home	141	8	4	129
(b) Transferred to Hospital on or before 28th day	42	2	4	36
Born in Nursing Home and				
(a) Nursed entirely there	5	—	—	5
(b) Transferred to Hospital on or before 28th day	—	—	—	—
	1031	75	67	889

There were 159 premature stillbirths, 141 being delivered in hospital and 18 at home

At eleven places around the County, special heated containers are always available should any small or premature baby require conveying to hospital. The Ambulance Service collects the container from the nearest address, conveys it to the home of the baby and then takes the baby to hospital.

## Puerperal Pyrexia

24 cases of Puerperal Pyrexia were notified during the year, 7 being domiciliary and 17 institutional confinements.

## Maternal Mortality

The maternal mortality for 1962, *i.e.*, number of deaths due to pregnancy, childbirth or abortion, per 1,000 live and still births, was 0.58.

## Ante-Natal and Post-Natal Clinics

The number of Ante-Natal clinics conducted by Doctors was 21. The Regional Hospital Boards pay for a proportion of the sessions attended by specialist obstetricians. In some areas there are other doctors' clinics, and in many districts midwives' clinics have been established.

The following tables give particulars of County clinics held during 1962:—

Doctors' Clinics	Clinic	No. of Sessions	ANTE-NATAL			POST-NATAL
			Attendances	New cases	No. of patients attended during the year	Attendances
Bredbury	---	23	163	62	80	—
Cheadle	---	47	211	108	117	—
Congleton	---	49	254	48	61	—
Eastham*	---	12	82	29	29	4
Ellesmere Port	---	102	750	329	392	73
Frodsham	---	52	1334	141	177	56
Hazel Grove	---	24	248	96	109	—
Heswall	---	51	1386	136	214	118
Hoyle	---	51	1348	196	275	118
Hyde	---	50	794	226	277	1
Little Sutton	---	51	496	103	123	30
Macclesfield Bridge Street	---	24	633	234	267	—
Hurdsfield House	---	12	235	71	94	—
Sanders Square	---	11	165	51	61	—
Neston	---	49	820	107	152	58
New Ferry	---	87	320	64	75	9
Partington*	---	8	130	35	35	20
Runcorn	---	50	710	184	214	1
Sale	---	51	1147	257	312	4
Timperley	---	23	358	81	107	4
Stalybridge	---	32	157	38	38	33
Started in 1962	Totals	859	11741	2596	3209	529

Midwives Clinics	CLINIC	No. of Sessions	Attendances	New cases	No. of Cases who attended during year
Bollington	---	50	310	55	80
Bredbury	---	51	919	166	229
Broomwood, Altrincham	---	23	36	7	13
Cheadle	---	51	556	139	162
Chester	---				
Ludford Street	---	91	748	150	152
Stalbridge Road	---	46	201	63	94
Chesterfield	---	51	800	134	206
Eastham*	---	6	37	22	27
Ellesmere Port	---	49	998	184	244
Frodsham	---	22	199	34	73
Gale*	---	12	18	10	11
Hollingworth	---	48	145	6	8
Hoyle	---	48	236	70	75
Leftwich	---	21	44	3	7
Little Sutton	---	50	791	130	166
Lymm	---	50	348	71	82
Macclesfield, Heyes Hall	---	24	126	42	53
Hurdsfield House	---	25	56	19	25
Sanders Square	---	23	380	90	90
Marples	---	49	652	140	186
Mantwich	---	50	157	20	20
Neston	---	22	184	33	35
Northwich, Northwich	---	47	95	11	34
Roynon	---	48	1474	163	249
Runcorn*	---	8	66	23	24
Sandbach	---	50	281	50	51
Stalybridge (Millbrook)	---	38	309	59	75
Stockton Heath	---	50	854	181	258
Veaverham	---	49	224	5	49
Vinsford	---	49	218	73	77
Started in 1962	Totals	1201	11462	2153	2855

## Mental Health of Mothers and Young Children

Expectant mothers regularly attend preparation classes; these are run largely on group discussion lines. It is found that the ventilation of personal problems before the birth of the baby is a great help to the mother-child relationship later. The talks are followed by relaxation exercises conducted by physiotherapists.

Classes were held at 30 centres, details of which are given below.

### Preparation Classes, 1962

CLINIC	No. of Sessions	Attendances	New Cases	
Alsager	59	393	69	
Cheadle	48	1064	124	
Crewe	49	1420	206	
Dukinfield	48	848	147	
Eastham*	3	9	5	
Ellesmere Port*	47	490	105	
Handforth	48	938	164	
Hazel Grove	49	512	89	
Heswall	48	1279	161	
Hoylake	52	1441	188	
Hyde	48	815	114	
Little Sutton	51	598	96	
Macclesfield	47	491	89	
Hurdsfield House	43	264	55	
Sanders Square	46	541	82	
Marple	49	569	77	
Nantwich	47	653	100	
Neston	51	848	127	
New Ferry	50	489	87	
Parkfield	8	24	5	
Partington*	48	520	100	
Poynton	45	547	90	
Romiley	51	855	124	
Runcorn	51	745	77	
Sale	50	539	76	
Sandbach	46	158	24	
Stalybridge	49	413	66	
Stockton Heath	55	207	50	
Timperley	39	175	31	
Weaverham	50	295	34	
Winsford				
*Started in 1962	Totals	1375	18140	2762

## Child Welfare Centres

The following Tables give particulars, as in previous years, of the sessions and attendances at Child Welfare Centres throughout the County:—

### CHILD WELFARE CENTRES, 1962.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Adswold	Fortnightly	1st and 3rd Monday	24	658	314	27
Alderley Edge	Weekly	Friday	50	1046	695	14
Alsager	Twice weekly	Tuesday a.m. and p.m.	100	3732	813	37
Altrincham (The Mount)	Twice weekly	Monday & Wednesday	99	4135	855	42
Altrincham (Broomwood)	Weekly	Monday	48	1592	625	33
Altrincham (Timperley)	Three times weekly	Tuesday a.m. & p.m. & Thursday p.m.	154	6346	1884	41
Audlem	Fortnightly	1st and 3rd Tuesday	24	757	292	32
Barnton	Fortnightly	2nd and 4th Wednesday	25	848	171	34
Barrow	Fortnightly	1st and 3rd Wednesday	24	390	134	16
Bebington (New Ferry)	Weekly	Wednesday	51	1459	356	29
Bebington (Bromboro')	Weekly	Thursday	51	1952	425	35
Bebington (Eastham)	Weekly	Monday	46	1612	285	35
Bebington (Thornton Hough)	Fortnightly	1st and 3rd Friday	23	279	121	12
Bebington (Higher Bebington)	Weekly	Tuesday	50	1549	566	31
Bebington (Mayer Hall)	Weekly	Friday	50	1491	407	30
Bollington	Fortnightly	2nd and 4th Thursday	24	1540	319	64
Rowdon	Fortnightly	2nd and 4th Thursday	24	664	248	28
Bramhall (Bramhall Lane)	Fortnightly	1st and 3rd Monday	24	1496	292	62
Bramhall (Bridge Lane)	Fortnightly	2nd and 4th Friday	23	746	229	32
Bredbury	Weekly	Tuesday	50	2186	606	44
Broadbottom	Fortnightly	1st and 3rd Wednesday	24	628	181	26
Bunbury	Fortnightly	1st and 3rd Friday	23	361	118	16
Carrington	Monthly	1st Friday	10	88	42	9
Cheadle	Weekly	Tuesday	51	2922	828	57

## CHILD WELFARE CENTRES, 1962—Contd.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Cheadle Hulme	Weekly	Tuesdays	52	3173	553	61
Cheadle Road	Fortnightly	2nd and 4th Monday	23	1477	476	64
Christleton	Fortnightly	1st and 3rd Thursday	23	908	177	39
Comberbach	Fortnightly	1st and 3rd Wednesday	24	626	166	26
Congleton	Weekly	Monday	50	3485	1354	70
Crewe	Twice weekly	Thursday	101	3833	610	38
(Ludford St.)		a.m. & p.m.				
Crewe	Fortnightly	1st and 3rd Monday	27	551	164	20
(Minshull New Road)						
Crewe	Twice weekly	Monday and Wednesday	100	4027	672	40
(Stalbr'ge Rd.)						
Davenham	Monthly	1st Monday	12	370	34	31
Disley	Fortnightly	1st and 3rd Tuesday	24	803	131	33
Dukinfield	Twice weekly	Wednesday & Thursday	101	4480	1100	44
Ellesmere Port (Stanney Lane)	Twice weekly	Tues. & Fri.	102	4932	968	48
Ellesmere Port (Ince)	Monthly	4th Thursday	11	62	19	6
Ellesmere Port (Little Sutton)	Weekly	Monday	50	2276	505	46
Ellesmere Port (Overpool)	Fortnightly	1st and 3rd Thursday	19	566	24	30
Farndon	Fortnightly	1st and 3rd Tuesday	23	312	73	14
Frodsham	Fortnightly	Alternate Tuesdays	26	897	348	34
Gatley	Fortnightly	2nd and 4th Thursday	25	1364	294	54
Goostrey	Fortnightly	1st and 3rd Tuesday	24	933	341	39
Grappenhall	Weekly	Tuesday	51	2050	127	40
Greasby	Weekly	Wednesday	51	1904	355	37
Great Boughton	Fortnightly	2nd and 4th Tuesdays	14	572	156	41
Hale	Weekly	Wednesday	51	2305	320	45
Hale Barns	Fortnightly	1st and 3rd Thursday	25	1017	370	41
Handforth	Fortnightly	2nd & 4th Monday	25	1138	392	45
Hartford	Fortnightly	2nd & 4th Tuesday	23	548	79	24
Haslington	Fortnightly	2nd and 4th Tuesday	24	1155	279	48
Hazel Grove	Weekly	Tuesday	50	2445	496	49
Heald Green	Weekly	Thursday	51	2631	870	52
Heatley	Fortnightly	1st & 3rd Wednesday	24	601	231	25
Helsby	Fortnightly	Alternate Tuesdays	26	1265	366	49
Heswall	Weekly	Monday	48	2531	712	53

## CHILD WELFARE CENTRES, 1962—Contd.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
High Lane —	Fortnightly	2nd and 4th Tuesday	23	1493	243	65
Hollingworth	Fortnightly	1st and 3rd Thursday	24	1274	256	53
Holmes Chapel	Fortnightly	2nd and 4th Tuesday	22	584	217	27
Hoylake —	Weekly	Thursday	51	1524	465	30
Huntington —	Fortnightly	2nd and 4th Wednesday	23	400	186	17
Hyde — (Bayley Hall)	Twice weekly	Mon. & Fri.	101	4270	807	42
Hyde — (Parsonage St.)	Twice weekly	Wed. & Thurs.	98	5089	813	52
Irby —	Fortnightly	1st & 3rd Wednesday	24	980	202	41
Kelsall —	Fortnightly	1st and 3rd Tuesday	24	670	223	28
Kingsley —	Fortnightly	2nd & 4th Wednesday	23	352	102	15
Knutsford —	Weekly	Wednesday	51	2439	702	46
Lacey Green.....	Fortnightly	1st and 3rd Monday	24	705	353	29
Leftwich .....	Fortnightly	2nd and 4th Tuesday	23	767	209	33
Lostock Gralam .....	Fortnightly	2nd and 4th Wednesday	23	633	136	28
Lower Peover	Monthly	2nd Monday	11	153	40	14
Lymm —	Weekly	Tuesday	52	2640	503	51
Macclesfield — (Bridge St.)	Twice weekly	Monday & Thursday	79	3148	618	40
Macclesfield — (Heyes Hall)	Weekly	Wednesday	50	1660	709	33
Macclesfield — (Hurdsfield House)	Weekly	Thursday	51	2311	535	46
Macclesfield — (Sanders Sq.)	Weekly	Friday	52	1988	566	38
Malpas —	Fortnightly	1st and 3rd Monday	27	591	213	22
Marple —	Weekly	Wednesday	50	3311	972	66
Marple Bridge	Fortnightly	2nd and 4th Thursday	24	741	275	31
Mellor —	Fortnightly	1st and 3rd Thursday	23	325	147	14
Middlewich —	Weekly	Monday	49	1344	406	27
Mobberley —	Fortnightly	Alternate Tuesdays	25	444	335	18
Moulton —	Monthly	3rd Wed.	12	265	67	22
Mow Cop —	Fortnightly	1st and 3rd Wednesday	24	328	156	13
Nantwich —	Weekly	Thursday	51	2847	613	56
Neston —	Weekly	Thursday	52	4116	520	79
Newton (West Kirby)	Fortnightly	2nd & 4th Wednesday	23	1269	257	55
Northwich — (Darland House)	Weekly	Tuesday	51	1904	324	37

## CHILD WELFARE CENTRES, 1962—Contd.

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Northwich — (Parkfield)	Weekly	Thursday	52	3035	312	58
Over Peover—	Fortnightly	1st and 3rd Monday	22	282	96	13
Partington —	Twice weekly	Tuesday & Thursday	68	2626	837	39
Pensby	Fortnightly	2nd and 4th Tuesday	23	1164	228	51
Plumley —	Fortnightly	1st and 3rd Thursday	24	434	110	18
Poynton —	Weekly	1st and 3rd Thursday	52	4138	1399	80
Prestbury (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	325	65	13
Rainow (at Bollington)	Fortnightly	1st and 3rd Wednesday	24	286	62	12
Rode Heath—	Fortnightly	2nd and 4th Monday	23	544	208	24
Romiley —	Twice weekly	Wed. & Thursday	79	3163	690	40
Runcorn (Grange)	Fortnightly	2nd and 4th Thursday	16	422	231	26
Runcorn — (Halton Road)	Twice weekly	Wednesday a.m. & p.m.	103	3055	803	30
Runcorn (Weston Point)	Fortnightly	1st and 3rd Thursday	24	654	284	27
Sale (Brooke's Institute)	Weekly	Friday	70	4382	590	63
Sale (Chapel Road)	Twice weekly	Tuesday & Thursday	103	5291	779	51
Sale (Raglan Road)	Weekly	Tuesday	50	2613	603	52
Sale Moor —	Weekly	Thursday	50	2677	575	54
Sandbach —	Twice Weekly	Tuesday a.m. & pm.	102	3822	847	38
Sandway —	Fortnightly	1st and 3rd Tuesday	24	1235	113	51
Saughall —	Fortnightly	1st, 3rd & 5th Monday	23	549	185	24
Scholar Green	Fortnightly	2nd and 4th Wednesday	23	640	239	28
Shavington —	Fortnightly	2nd and 4th Tuesday	24	1004	201	42
Stalybridge — (Mechanics' Institute)	Twice weekly	Tuesday & Wednesday	99	3673	750	37
Stalybridge — (Millbrook)	Weekly	Monday	44	1059	249	24
Stockton Heath	Weekly	Monday	49	1378	423	29
Sutton — (at Sanders Square)	Fortnightly	2nd and 4th Wednesday	23	343	79	15

CHILD WELFARE CENTRES, 1962—*Contd.*

Centre	Frequency	Day	No. of Sessions	No. Present	No. seen by Dr.	Average Att.
Tarporley	Fortnightly	2nd and 4th Thursday	23	761	187	34
Tarvin	Fortnightly	2nd and 4th Wednesday	23	645	164	28
Tattenhall	Fortnightly	2nd and 4th Monday	23	218	72	9
Tintwistle	Fortnightly	2nd & 4th Thursday	24	703	119	29
Upton	Weekly	Thursday	52	1645	583	32
Weaverham	Weekly	Tuesday	47	2479	345	53
West Kirby	Weekly	Friday	50	1849	434	37
Willaston (Wirral)	Fortnightly	1st and 3rd Friday	23	389	123	17
Wilmslow	Weekly	Thursday	51	2196	579	43
Winsford	Weekly	Friday	50	1567	434	31
Wistaston (Willaston)	Fortnightly	2nd and 4th Wednesday	23	737	101	32
Wrenbury	Fortnightly	2nd and 4th Wednesday	23	307	118	13

### Infant Foods

The financial arrangements involved in the supply of infant foods at Welfare Centres continued in the main to be dealt with by Divisional Medical Officers and the voluntary committees' valued help in this and other aspects of centre work was continued.

### Welfare Foods Service

At 31st December, 1962 there were, in all, 185 distribution centres in the administrative county, 115 of these being manned by voluntary personnel, and 70 by full-time or part-time paid staff, including the staffs of the local district councils where, by arrangement, points have been established on district council premises.

Supplies are received from S.P.D. Ltd. Depots at Liverpool, Manchester and Newcastle, S.P.D. Ltd. act as agents of the Ministry of Health in the matter of storage and delivery. It is usual for 4 to 5 weeks supply of Welfare Foods to be held at each distribution centre.

A total of 404,955 articles were distributed to individual beneficiaries, N.H.S. Hospitals, and day nurseries during the period 31st December, 1961 to 29th December, 1962, made up as follows:

National Dried Milk	—	—	—	174,066 tins
Cod Liver Oil	—	—	—	17,911 bottles
Vitamin A & D Tablets	—	—	—	2,6476 packets
Orange Juice	—	—	—	186,506 bottles



## Young Children

Young Children's Clinics were held in 41 centres, primarily for ensuring the proper supervision of handicapped children. At the same time Assistant County Medical Officers specially interested in early behaviour problems, can hear of the mothers' difficulties. The very fact of discussing them often indicates to the mother what course she should take. If it should be necessary, the general practitioner's agreement is obtained to refer a case to the Child Guidance Service. Psychiatrists in the Liverpool Region have been most helpful in meeting health visitors and discussing problems with them. Details of the attendances at these clinics in 1962 are given below.

YOUNG CHILDREN'S CLINICS, 1962				
Centre	No. of Sessions	No. Present	Average Att.	
<b>ALTRINCHAM</b>				
The Mount .....	11	90	8	
Broomwood .....	12	184	15	
BEBINGTON .....	11	117	11	
BREDBURY .....	10	74	7	
BROMBOROUGH .....	10	165	16	
CHEADLE .....	11	88	8	
CONGLETON .....	12	106	9	
<b>CREWE</b>				
Ludford Street .....	10	63	6	
Stalbridge Road .....	9	90	10	
DUKINFIELD .....	12	135	11	
EASTHAM .....	12	191	16	
ELLESMERE PORT .....	11	101	9	
GATLEY .....	9	95	9	
HALE .....	6	47	8	
HANDFORTH .....	11	81	7	
HAZEL GROVE .....	12	279	23	
HESWALL .....	12	106	9	
HOYLAKE .....	12	151	13	
KNUTSFORD .....	5	37	7	
LITTLE SUTTON .....	11	98	9	
LYMM .....	16	200	12	
<b>MACCLESFIELD</b>				
Bridge Street .....	12	140	12	
Hurdsfield House .....	23	384	14	
Sanders Square .....	12	69	6	
MARPLE .....	11	61	5	
MIDDLEWICH .....	9	65	7	
NANTWICH .....	11	123	11	
NESTON .....	11	73	6	
NEW FERRY .....	12	93	8	
PARKFIELD .....	9	47	5	
POYNTON .....	10	79	8	
ROMILEY .....	8	85	11	
RUNCORN .....	10	78	8	
SALE .....	11	158	14	
SANDBACH .....	11	80	7	
STOCKTON HEATH .....	11	99	9	
STALYBRIDGE* .....	4	28	7	
TIMPERLEY .....	10	95	9	
WEAVERHAM .....	10	61	6	
WILMSLOW .....	11	103	9	
WINSFORD .....	12	119	10	
*Started in 1962	<b>TOTALS</b>	<b>443</b>	<b>4538</b>	<b>10</b>

## Dental Care

Increasing importance is now attached to the provision of Dental services for expectant and nursing mothers, and for young children. Facilities will be extended as opportunity offers, subject to the availability of necessary staff.

Mothers and young children are dealt with during School Dental clinic sessions.

All necessary treatment is carried out, if necessary with local or general anaesthetic.

All dentures are set up by a mechanic, and impressions and fittings carried out by the dental surgeon.

Three clinics possess X-Ray apparatus, and for other clinics arrangements are made with the local hospital.

The following details show the work done during the year 1962:—

	Expectant Mothers	Nursing Mothers	Children under 5 years
<b>(a) Numbers provided with Dental Care</b>			
Examined	156	356	1159
Needing Treatment	156	348	1036
Treated	134	316	965
Made Dentally Fit	77	224	798
Total Attendances	311	1002	1579
<b>(b) Forms of Dental Treatment Provided</b>			
Temporary Extractions	—	—	1419
Permanent Extractions	186	937	—
Temporary Teeth Filled	—	—	606
Permanent Teeth Filled	140	211	—
Anaesthetics—Local	56	102	19
General	35	124	570
Partial Upper Dentures fitted	5	29	—
Full Upper Dentures fitted	7	49	—
Partial Lower Dentures fitted	4	12	—
Full Lower Dentures fitted	6	41	—
Scalings or Scaling and Gum Treatment	50	96	39
Silver Nitrate Treatment	15	8	67
Dressings	38	69	59
Radiographs	3	16	6

Number of Sessions spent on M.C.W. work — — — 270

## Care of Unmarried Mothers

Arrangements have continued whereby unmarried expectant mothers are admitted to voluntary institutions some time before the confinement, and return there with the baby for varying periods afterwards. The County Council's own Home at 7, Trinity Road, Hoylake, provides 12 beds and 8 cots, and 62 Cheshire women were admitted during the year, staying approximately eight weeks before the birth and six weeks afterwards. Responsibility was accepted at other homes and hostels for 35 such mothers during the year.

## Day Nurseries

Details of the 13 Day Nurseries now maintained by the County Council are given on page 39. The following table gives the number of places available and the attendances of children at each nursery in 1962.

Nursery	Approved number of places 31/12/62		Permitted number	Number of children on Register 31/12/62		Average daily attendance 1962	
	0—2	2—5		0—2	2—5	0—2	2—5
Altrincham .....	15	17	30	9	26	8.0	17.5
Bollington (T) .....	16	24	30	12	23	9.25	19.5
Bredbury .....	25	25	30	6	32	5.0	23.0
Bromborough .....	20	25	30	6	27	4.75	24.5
Congleton .....	16	32	48	17	34	11.75	29.5
Dukinfield .....	16	24	35	13	27	8.25	19.0
Ellesmere Port (T) .....	20	30	50	24	36	14.5	24.2
Hazel Grove .....	16	24	35	13	27	8.5	18.2
Macclesfield—							
Glegg Street (T) .....	10	30	40	11	32	9.5	30.5
Hurdsfield (T) .....	25	25	40	10	35	10.25	27.7
South Park (T) .....	18	30	40	16	25	13.0	29.5
Runcorn .....	16	24	30	7	33	7.25	22.7
Sale .....	20	31	30	8	30	5.5	23.7
<b>Total</b> .....	<b>233</b>	<b>341</b>	<b>468</b>	<b>152</b>	<b>387</b>	<b>115.5</b>	<b>309</b>

T—indicates a nursery approved for training purposes.

## Nurseries and Daily Minders

The County Health Department is responsible for the inspection and registration of premises under the Nurseries and Child-Minders Regulation Act, 1948, and the position on 31st December, 1962, was as follows:—

	Number Registered	Number of Children provided for
<i>Premises</i>		
(a) Factory Nurseries	— 2	106
(b) Other Nurseries	— 12	216
	— 14	322
<i>Daily Minders</i> — —	41	481

## Nursing and Maternity Homes

The County Council is the registration Authority for private Nursing and Maternity Homes under Sections 187 to 194 of the Public Health Act, 1936, for the whole County, and the following details show the position for the year ended 31st December, 1962:—

	Number of Homes	Number of beds provided for:—		
		Maternity	Others	Total
Homes first registered during year	1	—	18	18
Homes whose registrations were withdrawn during the year	5	1	50	51
Homes on the register at end of year	21	12	238	250
Homes exempt from registration at end of year	1	—	200	200

## Artificial Sunlight Treatment

During the year 1962, the attendances by children under 5 at the sunlight clinics listed below were as follows:—

Dukinfield	528	Sale	179
Hyde	958	Stalybridge	1116

## Orthopaedic Scheme

The specialist orthopaedic sessions held at county clinic premises are conducted by the Regional Hospital Boards, in the same way as those held at hospital premises, and suitable financial arrangements were made for the few clinics where physiotherapy was only partly under specialist supervision.

The following shews the attendances made during 1962 at such clinics (excluding those for sunlight only) by children under 5:—

Dukinfield	348	Northwich	103
Ellesmere Port	95	Runcorn	152
Hyde	323	Stalybridge	491
New Ferry	432		

## Thalidomide

In 1962 a survey was carried out to discover the number of babies who were born alive between 1/1/60 and 31/8/62 with congenital abnormalities, due or possibly due to the drug Thalidomide. 25 such babies were reported, the details being as follows. All these babies have received specialist advice and careful supervision from health visitors. For those needing the fitting of prostheses there is a limb fitting centre in Liverpool and one in Manchester.

<i>Defect</i>	<i>Born</i>		
	1960	1961	1962 (to 31/8/62)
(a) Mother known with certainty to have taken Thalidomide during pregnancy:—			
(i) all limbs absent			2
(ii) external ear defects		2	
(b) Reasonable probability that the mother took Thalidomide during pregnancy:—			
(i) both legs half length	1		
(ii) right or left arm half length	1		1
(iii) right leg half length. Arms minor defect		1	
(iv) external ear defect			1
(v) left arm minor defect	1		
(c) No indication that Thalidomide was taken:—			
(i) both legs half length	1		
(ii) both arms half length	1		1
(iii) right or left arm half length		2	
(iv) left arm half length. Right arm and left leg minor defects		1	
(v) arms and legs deformed			1
(vi) right or left arm minor defects	2	3	
(vii) external ear defects	2		
(viii) right leg and left arm minor defects		1	
	9	10	6
<b>Total</b>		<b>25</b>	

## **Phenylketonuria**

Phenylketonuria is the excessive accumulation of phenylalanine in the blood, and its frequency is estimated at 1 per 50,000 of the population. This interferes with brain development and it is therefore essential for the condition to be detected as early in life as possible so that necessary treatment can be started. The treatment is by a diet low in phenylalanine content controlled by a consultant paediatrician with special laboratory facilities. The diagnosis entails a simple test of urine which the health visitor can carry out by applying a specially treated paper strip to the baby's wet napkin. About the fourth week of life is considered the best time for a single test, but two tests are desirable. Arrangements have been made for health visitors to carry out the first test on the first visit to the child between the tenth and fourteenth day, and the second one between the fourth and sixth week of life.

Special arrangements are made for the testing of babies born into families in which the possibility of phenylketonuria is already known to exist.

During 1962 one child in Cheshire was reported as positive to the test and is now reported to be developing satisfactorily after treatment.

## **Child Guidance**

The service continues to develop, the main part of the work being concentrated at the Ellesmere Port, Northwich, Sandbach and Handforth clinics. The service is provided by two child guidance teams, each comprising two psychologists and three psychiatric social workers under psychiatrists provided by the Regional Hospital Boards. Owing to a shortage of psychiatrists Dr. Hugh Craig, Senior School Medical Officer has remained in charge of the Sandbach Clinic during the year.

There was a difficult period of three to four months when two psychologists left for other appointments and it was not possible to replace them until late in the year.

## **Cerebral Palsy**

The cerebral palsy peripatetic team of a physiotherapist and an occupational therapist continues to operate at clinic centres at Cheadle, Crewe, Macclesfield and Weaverham, and once a month at each clinic Dr. J. D. Allan, the Consultant Paediatrician, attends. The team works in close contact with the appropriate speech therapist and has the services of an assistant county medical officer specially trained in the ascertainment of intelligence in physically handicapped children. Children usually attend the clinics for treatment once or twice each week. Twice each year a special meeting is held of all officers concerned to review all cases attending the clinics.

The table below gives details of the children attending the clinics during 1962:—

#### CEREBRAL PALSY CLINICS

	Cheadle	Crewe	Macclesfield	Weaverham
Number of children:				
(a) Attending at the end of the year .....	26	23	14	15
(b) Under 5 years of age .....	8	11	4	5
(c) Unsuitable for education .....	1	6	3	4
(d) Improved sufficiently to:				
(i) attend school .....	—	1	1	1
(ii) have home tuition .....	—	1	—	2
(e) Already at school .....	17	6	4	2
(f) Already receiving home tuition .....	—	—	2	3
(g) Who were admitted to clinic during year .....	11	7	3	4
(h) Transferred to other centres .....	3	2	2	1
(i) Who ceased attendance .....	—	2	2	1
(j) Fit for discharge .....	3	—	—	1
(k) Died .....	—	1	—	1
(l) Discharged as unsuitable .....	—	1	—	1

#### Hearing and Speech

During the early years of life it is essential for children to hear speech of adequate loudness in order to learn to talk. It is therefore most important to discover any degree of hearing impairment before the acquisition of language has been seriously delayed. When a child is nine months old it is possible by simple screening tests to decide whether more complete investigation of hearing is required. Regular screening clinics for this purpose, conducted by health visitors trained in the technique, have been held at more than 70 centres during the year.

9,563 screening tests were carried out in 1962, of which 578 were re-tests. All children whose responses on re-test leave any doubt as to the normality of hearing are referred to the Assistant County Medical Officers, who see all such cases, as well as those brought to their notice because of delayed or defective speech development, or any other form of handicap. Where normal hearing cannot be proved on more complete assessment, consultant opinion can be sought at one of the regional Audiology Clinics.

We are still fortunate in having the help of Professor Sir Alexander Ewing and Dr. Ian G. Taylor (from Manchester University) at these clinics, which are held regularly at eight centres in the county. At many of the sessions one of the Consultant Otologists is also present, making more complete diagnosis possible, and minimising the delay in treatment where this is indicated. Important also at these clinics is the follow-up of young children already known to have a hearing loss, and guidance of all those (both parents and staff) who are concerned with their auditory training.

This training is carried out largely by the parents initially, in the home situation, with the guidance of one of those health visitors who have received appropriate training. In cases of severe loss, an individual hearing aid (supplied through the National Health Service) is usually worn for increasing periods in the home, supplemented by the daily use for short periods of a speech training aid, which provides better amplification (to both ears) than the small wearable aid. Eight speech training aids are available for loan to parents of young children, for use in the home, under the supervision of the peripatetic teachers of the deaf, who also use these aids in their regular clinic sessions.

At the end of the year, 69 children under five years old were known to have some degree of hearing impairment. 25 of these had a severe loss, necessitating the use of an individual hearing aid, and seven were already attending a special school for the deaf.

#### AUDIOLOGY CLINICS—1962

CENTRE	New Cases			Attendances		
	Pre-School	School	Total	Pre-School	School	Total
Headle	1	11	12	1	15	16
Heather	12	8	20	15	12	27
Hewe	6	10	16	10	22	32
Lesmere Port	9	9	18	11	15	26
Male	10	5	15	16	9	25
Acclesfield	6	17	23	7	23	30
Northwich	2	8	10	9	14	23
Tomiley	6	14	20	8	17	25
<b>TOTAL</b>	<b>52</b>	<b>82</b>	<b>134</b>	<b>77</b>	<b>127</b>	<b>204</b>



SCREENING CLINICS—1962

CENTRE	New Cases	Re-tests	Total Screened	Passed	Failed*	No. of Sessions
Alsager	172	16	188	175	13	16
Altrincham	196	6	202	196	6	24
Antrobus	4	—	4	4	—	1
Audlem	26	—	26	25	1	2
Bebington	101	3	104	98	6	7
Bramhall	97	—	97	94	3	9
Bram'vall—						
Bridge Lane	34	1	35	34	1	4
Barnton	49	2	51	48	3	9
Bollington	107	8	115	106	9	20
Bredbury	11	—	11	10	1	3
Bromborough	136	1	137	131	6	12
Broomwood	84	27	111	88	23	12
Bunbury	6	—	6	6	—	1
Cheadle	311	22	333	306	27	48
Cheadle Hulme	76	—	76	74	2	10
Comberbach	34	—	34	34	—	7
Congleton	89	4	93	79	14	15
Crewe—						
Ludford Street	317	21	338	330	8	23
Crewe—						
Stalbridge Road	142	8	150	143	7	19
Winsford	5	—	5	5	—	1
Disley	9	1	10	10	1	1
Dukinfield	159	7	166	157	9	20
Eastham	245	11	256	236	20	21
Ellesmere Port	498	43	541	485	56	50
Farndon	8	—	8	8	—	1
Frodsham	133	6	139	124	15	23
Grappenhall	146	11	157	145	12	23
Greasby	131	6	137	126	11	14
Hale	194	2	196	192	4	22
Handforth	119	2	121	118	3	11
Hazel Grove	216	24	240	221	19	24
Heswall	247	2	249	246	3	20
High Lane	24	2	26	22	4	2
Higher Bebington	19	—	19	16	3	4
Hollingworth	31	—	31	30	1	6
Hoole	78	7	85	69	16	19
Hoylake	227	23	250	230	20	31
Hyde—Bayley Hall	118	10	128	118	10	15
Hyde—						
Parsonage Street	123	8	131	125	6	16
Ince	4	—	4	4	—	1
Irby	35	—	35	34	1	3
Knutsford	114	7	121	107	14	19
Little Sutton	170	12	182	173	9	14
Lymm	231	29	260	229	31	26
Macclesfield—						
Bridge Street	177	17	194	174	20	25
Macclesfield—						
Hurdsfield House	85	8	93	87	6	13

SCREENING CLINICS—1962—*continued*

CENTRE	New Cases	Re-tests	Total Screened	Passed	Failed*	No. of Sessions
Macclesfield— Sanders Square	68	1	69	67	2	10
Macclesfield— Day Nursery	24	3	27	25	2	3
Malpas .....	22	5	27	27	—	5
Marple .....	110	4	114	107	7	15
Mellor .....	14	—	14	14	—	1
Middlewich .....	157	2	159	156	3	32
Millbrook .....	6	—	6	6	—	1
Moulton .....	13	—	13	13	—	4
Nantwich .....	201	4	205	196	9	19
Neston .....	163	5	168	163	5	19
New Ferry .....	257	41	298	250	48	44
Northwich .....	60	3	63	57	6	13
Parkfield .....	76	—	76	76	—	11
Parkgate .....	12	—	12	12	—	1
Partington .....	86	13	99	87	12	14
Pensby .....	12	—	12	12	—	1
Poynton .....	97	1	98	94	4	8
Romiley .....	76	3	79	78	1	9
Runcorn .....	127	19	146	134	12	22
Runcorn Rural	30	3	33	30	3	6
Sale .....	656	23	679	639	40	51
Sandbach .....	146	3	149	146	3	18
Siddington .....	14	4	18	12	6	2
Stalybridge .....	62	2	64	60	4	11
Stockton Heath	136	4	140	131	9	20
Tarporley .....	27	1	28	26	2	3
Tarvin .....	35	1	36	36	—	4
Timperley .....	272	56	328	288	40	30
Weaverham .....	54	—	54	54	—	8
Willaston .....	13	2	15	13	2	2
Wilmslow .....	288	13	301	276	25	32
Winsford .....	133	5	138	133	5	13
Totals	8985	578	9563	8889	674	1099

\*These children were subjected to re-tests and only those subsequent failures required reference to the Assistant County Medical Officers.

## Section VII.-Midwifery

### General

A summary of the numbers involved is given below, further details on pp. 36-37, and general information, relating both to district nurses who practise midwifery and to those who do not, in Section X.

### Number of Midwives in Practice

There were 321 midwives who notified their intention to practise in the County Area during 1962:—

Headquarters Staff .....	4
County Midwives .....	68
District Nurse Midwives .....	92
Independent Midwives .....	12
Practising in Private Nursing Homes .....	3
Practising in Institutions .....	142

### Inspection of Midwives

Visits paid by Senior Medical Officer .....	72
Lectures to midwives and pupils .....	22

Visits paid by Non-Medical Supervisors of Midwives:—

Inspection of County Midwives .....	99
Inspection of Independent Midwives .....	5
Statutory supervision of District Nurse Midwives .....	86
Special visits to Midwives .....	69
Visits to pupil Midwives .....	42
Lectures to pupils and Midwives .....	2

Cases visited:—

Labours .....	7
Nursings .....	9
Ante-natal .....	41

### Cases attended by County Midwives and District Nurse Midwives on County Council Staff

	<i>Deliveries (live and still)</i>		<i>Stillbirths included in Cols. a &amp; b</i>	<i>Miscarriages</i>
	<i>Col. a Doctor not present</i>	<i>Col. b Doctor present</i>		
Midwives	2,678	998	20	69
District Nurse Midwives	1,062	610	12	31
<b>Total</b>	<b>3,740</b>	<b>1,608</b>	<b>32</b>	<b>100</b>

Number of patients attended by midwives following discharge from Hospital and before the tenth day .....

2957

## Notifications received (Central Midwives Board Rules)

Medical Aid	.....	1270
Stillbirths	.....	76
Source of Infection	.....	90
Deaths in the Practice	.....	17

## Inhalational Analgesia

(a) Number of domiciliary midwives practising in area 31/12/62, who were qualified to administer inhalational analgesics.....	.....	163
(b) Number of sets of apparatus in use by above, 31/12/62	.....	
Gas and Air	.....	148
Trilene	.....	24
(c) Number of cases in which inhalational analgesics were administered, 1962—		
(a) when doctor was not present		
(i) Gas and Air	2614	
(ii) Trilene	461	
(b) when doctor was present		
(i) Gas and Air	1110	
(ii) Trilene	278	

## Pethidine

Number of cases in which pethidine was administered by domiciliary midwives during 1962:—

(a) When Doctor was not present	.....	2183
(b) When Doctor was present	.....	1054

## General

(a) Number of houses owned by County Council	.....	8
(b) Number of motor vehicles owned by County Council	.....	11
(c) Number of County Midwives receiving County allowance for their own cars	.....	61
(d) Number of telephone rentals being paid	.....	65

## Rotas System in Domiciliary Midwifery

It has not yet proved possible to introduce a system whereby night calls are taken by midwives who are off-duty during the day.

The districts are such that usually 3 or 4 midwives cover an area and relieve each other; by this means two are always on duty. Alternatives to this method have been discussed with the midwives but they prefer to continue the present system, and it appears to work satisfactorily.

## Section VIII. Mental Health

As was expected with the advent of the Mental Health Act, Mental Welfare Officers are now required to act more as social workers than ever before. Some of the new duties which have been added are:—

- (a) Visiting mentally ill patients in hospital
- (b) Providing a link between the patient in hospital, his home and work place
- (c) Attending case conferences between the hospital and local authority staffs
- (d) Effecting liaison with family doctors
- (e) Making themselves available to family doctors and hospital out-patient departments to supply case histories and to carry out social and preventive work in the patient's own home
- (f) Ensuring that property belonging to patients admitted to hospital is protected.

Mental Welfare Officers now help people in difficulties relating to employment, finance, and in many other matters; they visit them in their homes, and see them at clinics, or at Mental Welfare Offices, according to convenience.

Mental Welfare Officers provide friendly supervision for those people who by reason of mental subnormality are unable to lead a fully independent life, and in appropriate cases arrange for them to attend either a junior or adult training centre where work and training are undertaken according to the capacity of the person concerned.

All these functions require skill, human understanding and sympathy. This has been recognised nationally, and in consequence the Health Visitors and Social Work Training Act, 1962, was introduced, and a Council for Training in Social Work set up under the Chairmanship of Sir John Wolfenden to deal with the training of social workers, which includes mental welfare officers. Already, courses for the training of social workers have been set up by the National Institute for Social Work Training, and it is expected that these courses will be recognised by the Council for Training in Social Work. This year two senior officers have been seconded for courses. The completion of these courses will enable these officers to make a much greater contribution to the field of mental health, and will also ensure that those officers who work under them are trained along the right lines.

Periodic meetings of the Senior Mental Welfare Officers and the County Medical Officer were held during the year to discuss various aspects of the work in the field of mental health.

Circular 2/62 of the Ministry of Health, dated 23rd January, 1962, called for a plan of development to cover the Health and Welfare Services for the period from 1st April, 1962, to 31st March, 1972 (now

called the ten-year plan). In this plan the local health authority was asked to pay particular attention to the shift of emphasis from hospital to community care of persons suffering from mental disorder. The consequent gradually increasing provision of local health authority services, both for mental illness and for mental subnormality, has reflected in the proposals, regarding both staff and buildings, which have been made in the Cheshire scheme.

### **Adult Training Centres**

One of the most important functions of the County Mental Health Service is the provision of training centres for subnormals, and the Council's building programme for centres made such progress in 1962 that by early 1964 the County will be served by six new purpose-built adult training centres.

The functions of an adult training centre are threefold:—

- (a) The provision of sheltered environment in which the subnormal can work on simple tasks in accordance with his limited ability
- (b) To create a situation where the subnormal's social maturity is brought to its optimum level.
- (c) To return the subnormal to employment in the community as a result of (a) and (b).

The Council's policy at the adult training centre in Ellesmere Port is designed to implement fully the above-mentioned functions, and in order to bring the subnormal into contact with conditions as they are in industry, light assembly work has been introduced into the training centre. This work is done under contract to firms in the Ellesmere Port area. The work that the subnormals do is paid for by the firms, who are finding that it is to their advantage to use the training centre as a link in the chain of events which leads to the finished product. This represents a big advance from the old idea of a centre where subnormals were put to tasks in order solely to occupy their time.

In order to obtain contract work at the training centre from industry it has been necessary to go out into the factories to talk to managers and foremen and explain to them the problems and aspirations of those whose job it is to care for the interests of the subnormal, and the Superintendent Mental Welfare Officer has done this work with considerable thoroughness.

The very nature of contract work is such that the supply of it to the training centre varies according to the demand for the product from the community, and when, for a period, there is no demand from the factories, the subnormals turn to making link mats, wire coathangers, mops, bundles of firewood, etc., which are sold in the usual way.

The Council has wisely allowed a system of remuneration to be implemented at the adult training centre. The income from the sale of goods and contract work is divided in the following manner:—

- 75% to the subnormal
- 15% to Cheshire County Council
- 10% to amenities fund

The subnormals are paid at varying rates per hour according to their ability. This is in addition to a daily attendance payment. On Friday afternoons the wages are paid out in pay-packets, and in this way the subnormal's life at the training centre approximates to that of the normal individual in a factory.

At the end of the year 1962, fifty-four persons were attending the Ellesmere Port Adult Training Centre.

### **Junior Training Centres**

During 1962 plans for the replacement of four junior training centres by new buildings made such progress that these new purpose-built centres will be in operation during 1964. Experience at the new junior training centre at Eastham has shown that for a comprehensive service to be given to the severely subnormal child there must be adequate laundry provision so that incontinent children can be admitted and toilet-trained as part of the programme to increase their social maturity. The new centres have been designed with this in view, and modifications have taken place at Eastham Junior Training Centre which will enable this centre to admit incontinent severely subnormal children.

### **Cheadle Royal Sheltered Workshop**

Greater use has been made of Cheadle Royal Sheltered Workshop which was set up in 1961 for the benefit of those people suffering from mental disorder living in the community and who would manage to find their own way to this centre.

At the end of the year there were twelve workers in attendance at this centre and four trainees.

### **Hostels**

Since the enquiry by the Royal Commission into the permanent care of subnormals who were unable to care for themselves and who had no relatives willing to undertake this, it has been realised that the real need in this sphere was hostels run by the local authority, and not an extension of the hospital services. In 1962 the first male subnormals were admitted to the county's William Gibson Hostel at Wrenbury Hall, and by the end of the year there were twenty-one in this hostel. Every effort is made to place the subnormals in gainful employment around Wrenbury, and approximately 25% of the trainees are so employed. A further 25% are employed in the Wrenbury Industries and the remainder have attended Hanly Adult Training Centre pending

the completion of Crewe Adult Training Centre. Every endeavour is made to bring a subnormal to the level at which he can leave the hostel and take up residential work, either on a farm or in a hotel under the supervision of the mental welfare officer. In the year 1962 four left the hostel for residential employment.

The problem of care for the subnormal is the same in respect of females as it is for males, and plans have been initiated during 1962 for hostel provision for females at a future date.

### Guardianship

During 1962 one male and four females aged over 16 years were transferred from hospital detention to guardianship of the local health authority, and there were the same number remaining at the end of the year.

In the Manchester Regional Hospital Board area the closest possible liaison between Regional Hospital Board and local authority exists. This is due to a great extent to the out-patient clinics for subnormality which take place at Offerton House, Stockport, every Monday afternoon except the first Monday afternoon in the month when the out-patient clinic is at Cranage Hall Hospital. The clinic at Offerton House is attended by Dr. T. L. Pilkington, Medical Director of Cranage Hall Hospital, and Dr. R. A. Blyth, Senior Medical Officer for Mental Health of Cheshire County Council. The clinic at Cranage Hall Hospital is attended by Dr. B. P. Griffin, who is Dr. Pilkington's deputy, and by Dr. Blyth.



TABLE I

The following table shows the number of patients suffering from mental illness admitted to hospital by agency of the Mental Welfare Officers during the period 1st January to 31st December, 1962:—

HOSPITAL	Mental Health Act, 1959									
	Sect. 5 (In- formal)		Sect. 25 (Observ- ation)		Sect. 26 (Treat- ment)		Sect. 29 (Emer- gency)		TOTAL	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
<i>Liverpool Region</i>										
Deva and Moston, Chester	100	182	31	47	31	65	31	49	193	343
Winwick, Warrington	38	66	4	19	10	9	14	13	66	107
St. Catherine's, Birkenhead	22	34	—	—	1	1	13	16	36	51
Kingswood, Frodsham	—	2	—	1	—	—	—	—	—	3
	160	284	35	67	42	75	58	78	295	504
<i>Manchester Region</i>										
Parkside, Macclesfield	71	121	85	124	5	16	37	15	198	276
Barony, Nantwich	118	142	30	46	—	1	16	22	164	211
St. Thomas, Stockport	12	31	9	12	—	—	—	—	21	43
Ashton General, Ashton-u-Lyne	—	1	20	—	2	1	—	—	2	22
	202	314	124	184	6	17	53	37	385	552
Cheadle Royal	10	8	4	8	1	2	1	2	16	20
Other Hospitals	4	10	2	1	—	—	—	2	6	13
	14	18	6	9	1	2	1	4	22	33
Totals	376	616	165	260	49	94	112	119	702	1089
Combined Totals	992		425		143		231		1791	

## SECTION 60.

In addition 2 female patients were admitted to Parkside Hospital under Section 60 (Court Order) of the Mental Health Act, 1959.

Total number of patients admitted to Psychiatric Hospitals by agency of Mental Welfare Officers under all procedures during the period 1st January to 31st December, 1962	1793
Total number admitted during the corresponding period in 1961	1487

The following particulars show the number of admissions from each of the nine Mental Welfare Officers' areas:—

Wirral	.....	.....	.....	.....	.....	232
West Cheshire	.....	.....	.....	.....	.....	346
Runcorn and Lymm	.....	.....	.....	.....	.....	184
Mid-Cheshire	.....	.....	.....	.....	.....	216
Crewe and Nantwich	.....	.....	.....	.....	.....	225
Altrincham, Sale and Knutsford	.....	.....	.....	.....	.....	175
Macclesfield and Congleton	.....	.....	.....	.....	.....	150
North-East Cheshire	.....	.....	.....	.....	.....	100
Hyde, Stalybridge and Dukinfield	.....	.....	.....	.....	.....	165
						<hr/>
						1,793
						<hr/>

In addition, 492 (198 male and 294 female) cases were referred to Mental Welfare Officers in which no action was necessary under the Mental Health Act, but appropriate advice and help were given in other ways.

Mental Welfare Officers now have a wide range of duties, as indicated in the following table showing numbers of visits:—

TABLE II.

	Wirral	West Cheshire	Runcorn and Lymm	Mid-Cheshire	Crewe and Nantwich	Altrincham Sale and Knutsford	Macclesfield and Congleton	North-East Cheshire	Stalybridge Hyde and Dukinfield
<i>Community Care</i>									
After-care following discharge from hospital	602	355	164	212	458	427	747	240	554
Accompanying Consultant Psychiatrist or General Practitioner	38	49	109	131	93	155	200	119	137
Obtaining Case Histories	110	53	9	290	71	85	106	41	129
Whilst patient is still in Hospital	119	206	88	81	128	112	200	59	105
Miscellaneous cases (requiring pre-care advice, etc.)	386	185	774	194	262	386	918	220	144
Supervision of persons suffering from subnormality or severe sub-normality	715	462	629	690	700	895	995	701	386
<i>Hospital Visits</i>									
To patients admitted from County area	36	229	22	172	120	115	247	83	30
Attendances at Case Conferences	36	42	—	5	23	110	133	72	55
Consultations with Medical and Nursing Staff	134	724	103	56	329	138	933	229	55
Consultations with other Agencies, N.A.B. Ministry of Labour, etc.	72	472	31	65	269	126	217	187	41
<b>Total</b>	<b>2246</b>	<b>2777</b>	<b>1929</b>	<b>1896</b>	<b>2453</b>	<b>2549</b>	<b>4696</b>	<b>1951</b>	<b>1636</b>

## Office Interviews

During the year 875 office interviews took place in connection with mentally ill persons, and 375 relating to the mentally subnormal.

During the year 169 cases were referred by Mental Welfare Officers to Out-patients' Clinics, and Mental Welfare Officers attended various sessions at such clinics and helped to convey patients to them. The following table shows the number of attendances made and the number of patients conveyed:—

TABLE III.

	<i>No. of Attendances</i>	<i>No. of patients escorted to Out-patients Clinics</i>
Wirral	219	15
West Cheshire	135	8
Runcorn and Lymm	176	74
Mid-Cheshire	116	90
Crewe and Nantwich	108	207
Altrincham, Sale and Knutsford	234	34
Macclesfield and Congleton	514	175
North-East Cheshire	320	153
Stalybridge, Hyde and Dukinfield	295	278
	2,117	1,034

The County is covered by the following Clinics, and as far as possible patients are referred to the nearest establishment:—

Wirral	St. Catherine's Hospital Annexe, Birkenhead Victoria Central Hospital, Wallasey Clatterbridge Hospital, Bebington Cottage Hospital, Hoylake
West Cheshire	Ellesmere Port Hospital Royal Infirmary, Chester Moston Hospital, Chester
Runcorn	Victoria Memorial Hospital, Runcorn The Infirmary, Warrington General Hospital, Warrington Winwick Hospital, Winwick Widnes Accident Hospital, Widnes Child Welfare Centre, Frodsham
Mid-Cheshire	Victoria Infirmary, Northwich
Crewe and Nantwich	Memorial Hospital, Crewe Barony Hospital, Nantwich.

Altrincham, Sale and Knutsford	Sale and Brooklands War Memorial Hospital Knutsford and District War Memorial Cottage Hospital
Macclesfield and Congleton	Rosemount Clinic, Macclesfield West Park Hospital, Macclesfield Cranage Hall Hospital, Holmes Chapel
North-East Cheshire	Stepping Hill Hospital, Stockport St. Thomas's Hospital, Stockport Cheadle Royal Hospital, Cheadle Offerton House, Stockport
Stalybridge, Hyde and Dukinfield	Ashton General Hospital, Ashton-u-Lyne

### Training Centres for the Mentally Subnormal

The table below shows the numbers of Cheshire cases on the registers of training centres at the end of 1962:—

TABLE IV.

		<i>County Training Centres</i>				
		<i>Under 16</i>		<i>Over 16</i>		
<i>Junior :</i>		<i>M.</i>	<i>F.</i>	<i>M.</i>	<i>F.</i>	<i>Total</i>
Altrincham	.....	28	21	11	10	70
Bebington (Eastham)	.....	33	14	—	—	47
Hyde	.....	30	20	3	9	62
Macclesfield	.....	31	10	3	9	53
Nantwich	.....	18	21	1	9	49
<i>Adult :</i>						
Ellesmere Port	.....	—	—	34	20	54
		140	86	52	57	335
		<i>Other Authorities' Centres</i>				
Chester	.....	8	7	—	9	24
Hanley	.....	—	—	10	3	13
Milehouse, Newcastle under-Lyne	.....	1	—	—	—	1
Ancoats, Manchester	.....	—	—	3	—	3
Beacon House, Stockport	.....	1	1	—	1	3
Offerton House, Stockport	.....	—	—	1	—	1
Warrington, Junior	.....	5	1	—	5	11
Warrington, Adult	.....	—	—	1	—	1
		15	9	15	18	57

*Voluntary Centres*

	<i>Under 16</i>		<i>Over 16</i>		<i>Total</i>
	<i>M.</i>	<i>F.</i>	<i>M.</i>	<i>F.</i>	
Crewe Spastics Centre .....	—	1	—	—	1
Granville House Spastics Centre, Stockport .....	4	6	—	—	10
Pictor House Spastics Centre, Sale.....	10	7	—	1	18
Rodney House Spastics Centre, Manchester	2	—	—	—	2
Redcourt, Glossop .....	—	—	6	—	6
	16	14	6	1	37

**Day Nurseries**

At the end of 1962 one subnormal boy was attending the Congleton Nursery by special arrangement.

**Hospital Accommodation for the Mentally Subnormal**

During the year 1962 vacancies were found in hospitals as follows for persons suffering from mental subnormality:—

Ashton House, Birkenhead .....	2
Brockhall Hospital, Langho, Blackburn .....	7
Calderstones Hospital, Whalley, Blackburn .....	5
Cranage Hall Hospital, Holmes Chapel .....	13
Greaves Hall Hospital, Banks, Southport .....	1
Mary Dendy Hospital, Alderley Edge .....	5
Newchurch Hospital, Culcheth, Warrington .....	2
Offerton House, Stockport .....	6
Ormskirk Children's Hospital Liverpool .....	1
Rampton Hospital, Nottingham .....	1
Swinton Hospital, Manchester .....	1
Whitecross Homes, Warrington .....	1
	45

**Temporary Care of the Mentally Subnormal**

During 1962, temporary care in hospital was provided in thirty-seven cases. Another method of securing the same benefit has been the provision of short-stay accommodation at the Orchard Dene Hostel, Rainhill, Pallotti Hall Residential Nursery, Nr. Macclesfield and Redcourt, Glossop where similar temporary accommodation is available. Seventy-three children were so accommodated in 1962.



	Mentally Ill		Psychopathic			Subnormal			Severely Subnormal			Totals								
	Under Age 16		16 and over		Under Age 16			16 and over			Under Age 16			16 and over						
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F				
Number of patients under L.H.A. care at 31/12/62	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)
(a) Total number	—	—	172	322	—	—	6	5	3	2	327	267	248	159	200	192	251	161	705	786
(b) Attending day training centre	—	—	2	—	—	—	—	—	—	—	24	25	172	110	50	62	172	110	76	87
Awaiting entry thereto	—	—	—	—	—	—	—	—	—	—	40	54	18	6	54	86	18	6	94	140
(c) Resident in L.A. home/hostel	—	—	—	—	—	—	—	—	—	—	13	—	—	—	8	—	—	—	—	21
Awaiting residence in L.A. home/hostel	—	—	—	—	—	—	—	—	—	—	2	3	—	3	—	11	—	5	—	14
Resident at L.A. expense in other residential homes/hostels	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	1	—	—	1
Resident at L.A. expense by boarding out in private household	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(d) Receiving home visits and not included under (a) to (c).	—	—	170	322	—	—	6	5	3	2	224	157	41	31	74	19	44	33	474	503
Number of patients in L.H.A. care awaiting day admission to hospital at 31/12/62	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(a) In urgent need of hospital care	—	—	—	—	—	—	—	—	—	—	2	3	42	16	9	4	42	16	11	7
TOTAL	—	—	—	—	—	—	—	—	—	—	3	6	58	32	18	10	58	32	21	16
Number of admissions for temporary residential care	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(a) To N.H.S. hospitals	—	—	—	—	—	—	—	—	—	—	—	4	6	9	3	15	6	9	3	19
(b) To L.A. Hostels	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1
(c) Elsewhere	—	—	—	—	—	—	—	—	—	—	1	—	46	25	1	—	46	25	2	—
TOTAL	—	—	—	—	—	—	—	—	—	—	2	4	52	34	4	15	52	34	6	19
Number of patients referred to L.H.A. during year ended 31/12/62 by	9	3	585	994	2	—	8	12	—	—	2	3	—	—	2	1	11	3	597	1010
(a) General practitioners	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
(b) Hospitals, on discharge from in-patient treatment	—	—	203	317	—	—	4	8	—	—	18	11	—	—	5	—	—	—	—	230
(c) Hospitals, after or during out-patient or day treatment	—	—	1	205	367	—	—	1	1	—	—	2	2	1	—	—	2	2	206	370
(d) Local education authorities	—	—	—	—	—	—	—	—	—	—	2	—	46	20	—	—	48	20	9	6
(e) Police and courts	—	—	94	69	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	98
(f) Other sources	5	7	278	358	—	—	4	7	—	—	17	7	1	4	3	7	6	11	302	379
TOTAL	14	11	1365	2105	2	—	19	29	2	—	47	29	49	25	11	8	67	36	1442	2171





EDUCATIONALLY SUBNORMAL SCHOOL LEAVERS  
EMPLOYMENT AFTER LEAVING SCHOOL

Enquiries were made regarding particulars of employment and after history of educationally subnormal children who had been educated in ordinary schools in Cheshire and had left school between 1958 and 1962.

*A. Number of enquiries made*

	<i>Males</i>	<i>Females</i>
Ascertained I.Q. 65—75 .....	168	113
Ascertained I.Q. 55—64 .....	83	46
Ascertained I.Q. 54 or below .....	39	24
	290	183
Total males and females .....		473

*B. Particulars of present occupation, etc.*

	<i>Males</i>	<i>Females</i>
<i>I.Q. 65—75</i>		
Employed .....	120	74
In training centres .....	4	2
In residential homes or hospitals .....	4	2
Died .....	1	—
Married women and not employed .....	—	9
Unemployed .....	5	5
Not traced .....	34	21
	168	113
<i>I.Q. 55—64</i>		
Employed .....	53	26
In training centres .....	5	10
In residential homes or hospitals .....	6	—
Died .....	1	—
Married women and not employed .....	—	2
Unemployed .....	2	6
Not traced .....	16	2
	83	46
<i>I.Q. below 55</i>		
Employed .....	19	5
In training centres .....	10	10
In residential homes or hospitals .....	3	4
Died .....	1	1
Married women and not employed .....	—	—
Unemployed .....	2	1
Not traced .....	4	3
	39	24

C. Type of job held on date of enquiry

Males

	I.Q. 65—75	I.Q. below 65
Building trades apprentices	16	4
Labourers	23	20
Roundsmen	5	1
Other apprentices	9	3
General assistants	5	2
Gardeners	9	5
Shoe repairers	3	—
Farm workers	20	20
Machinists	3	3
Mechanics	2	—
Railway workers	2	3
Refuse collectors	2	—
Warehouse, etc., packers	6	3
Domestic	4	1
Mill workers	4	—
Shop assistants	2	1
Others	5	6
	<hr/>	<hr/>
	120	72
	<hr/>	<hr/>

Females

	I.Q. 65—75	I.Q. below 65
Machinists	11	7
Shop assistants	10	—
Hairdressers	4	—
Packers	12	5
Dental receptionists or nurses	2	—
General assistants	10	3
Domestics	6	6
Clerks	2	—
Bakehouse	4	2
Laundry	3	2
Textile workers	4	—
Canteen workers	2	—
Seamstresses	—	2
Sorter	—	2
Others	4	2
	<hr/>	<hr/>
	74	31
	<hr/>	<hr/>

D. Number who have been employed at some time since leaving school

Males

Females

I.Q. 65—75	126	I.Q. 65—75	79
I.Q. 55—64	55	I.Q. 55—64	32
I.Q. below 55	21	I.Q. below 55	6
	<hr/>		<hr/>
	202		117
	<hr/>		<hr/>

E. Notes

(a) In care of Children's Department:—

Boys I.Q. 64—75 1

Girls I.Q. 55—64 2 (one of whom had illegitimate child)

(b) Work stated to be unsatisfactory—2 boys

(c) Said to be living an "unsatisfactory life"—1 girl

(d) Has been in Borstal—1 boy

(e) Has been in prison—1 boy

(f) Have been before the Courts—6 boys, 1 girl

(g) Have been in approved schools—2 boys

## Section IX.-Domestic Help

Under Section 29 of the National Health Service Act, 1946, the County Council is empowered to provide a Domestic Help Service for households where such help is required owing to the presence of any person who is ill, lying in, an expectant mother, aged, or a child not over compulsory school age.

The service is one of those which have been devolved to Divisional Health Committees for organisation, administration, and management within the approved estimates. It is not one of the services provided free under the Act, and the Local Health Authority has adopted an appropriate payment scale.

Staff employed at 31st December, 1962:—

	Supervisors	Domestic Helps
(a) Whole-time .....	10	17
(b) Part-time .....	—	839
Whole-time equivalent of (b)		295.5

Details of the work carried out in each Division during 1962 are given in the following table:—

### DOMESTIC HELP SERVICE, 1962

Division	APPROX. NO. OF HOURS HELP PROVIDED				
	Maternity	Tuber- culous	Chronic Sick aged and infirm	Others	Total
Altrincham .....	1,375	—	9,731	2,840	13,946
Bebington .....	742	681	36,702	3,061	41,186
Cheadle & Wilmslow .....	3,914	—	30,685	2,419	37,018
Crewe .....	737	967	63,493	1,133	66,330
Deeside .....	2,330	515	38,034	3,857	44,736
Hyde .....	691	—	20,863	552	22,106
Macclesfield .....	1,307	87	34,283	764	36,441
Mid-Cheshire .....	181	—	28,891	866	29,938
Nantwich .....	362	—	26,044	1,678	28,084
N.E. Cheshire .....	4,056	76	28,883	1,901	34,916
Runcorn .....	2,500	112	31,811	6,000	40,423
Sale & Lymm .....	2,378	—	13,216	1,618	17,212
S.E. Cheshire .....	850	—	42,789	13,558	57,197
S.W. Cheshire .....	1,030	1,000	56,020	1,480	59,530
Stalybridge & Dukinfield .....	272	—	33,274	184	33,730
	22,725	3,438	494,719	41,911	562,793

DOMESTIC HELP SERVICE, 1962

Division	HELPS		NUMBER OF CASES					Total
	Whole-time	Part-time No.	whole-time equivalent	Maternity	Tuber- culous	Chronic Sick aged and infirm	Others	
Altrincham	—	29	12	53 (2)	—	89 (40)	50 (8)	192 (50)
Bebington	—	49	20	21 (—)	2 (2)	197 (121)	37 (11)	257 (134)
Cheadle and Wilmslow	7	44	15	93 (5)	—	151 (109)	67 (10)	311 (124)
Crewe	—	118	30	6 (1)	3 (3)	262 (196)	10 (1)	281 (201)
Deeside	—	68	23	62 (4)	3 (—)	155 (85)	50 (12)	270 (101)
Hyde	—	20	11	17 (—)	—	176 (103)	8 (—)	201 (103)
Macclesfield	1	49	20	36 (—)	2 (1)	275 (187)	12 (—)	325 (188)
Mid-Cheshire	—	60	14	4 (—)	—	151 (106)	14 (4)	169 (110)
Nantwich	—	52	13.5	7 (—)	—	101 (71)	12 (4)	120 (75)
N.E. Cheshire	—	39	20	126 (—)	1 (1)	234 (154)	38 (2)	399 (157)
Runcorn	—	62	38	60 (—)	1 (1)	198 (124)	21 (6)	280 (131)
Sale and Lymm	1	20	10	74 (1)	—	132 (62)	50 (3)	256 (66)
S.E. Cheshire	—	108	26	17 (3)	—	145 (95)	55 (29)	217 (127)
S.W. Cheshire	—	96	27	32 (—)	2 (2)	230 (136)	18 (4)	282 (142)
Stalybridge & Dukinfield	8	25	16	9 (—)	—	246 (185)	7 (—)	262 (185)
	17	839	295.5	617 (16)	14 (10)	2742 (1774)	449 (94)	3822 (1894)

The figures in brackets indicate the number of cases in which help started prior to 1962.

## Section X. Home Nursing

Under Section 25 of the National Health Service Act, the County Council has the duty to provide a full service for nursing sick persons at home free of charge to the patient.

Details of the nurses and nurse-midwives employed by the County Council are given earlier in this report, together with their districts.

Small nursing appliances such as urinals, hot water bottles, bed-pans, feeding cups, mackintosh sheets, air rings, back rests, inhalers and sputum mugs are kept by nurses for loan to their patients; large items such as special beds, wheel chairs, spinal carriages are available at the Divisional Offices. This service forms part of the County Council's arrangements under Section 28 of the Act.

The following statistics give some idea of the scope of the service and the work done during 1962:—

(a) Number of Home Nurses at 31/12/62:—			
(1) Whole-time on General Nursing	.....	.....	83
(2) Part-time on General Nursing	.....	.....	120
(b) Equivalent whole-time home nursing service provided in (a) (2)			
.....	.....	.....	70
(c) Number of houses owned by County Council			
.....	.....	.....	26
(d) Number of motor vehicles owned by County Council			
.....	.....	.....	20
(e) Number of nurses receiving County allowance for their own cars			
.....	.....	.....	178
(f) Number of telephone rentals being paid			
.....	.....	.....	179
(g) Cases and visits were as follows:			

<i>Types of Cases</i>	<i>Cases</i>	<i>Visits</i>
Medical	8,217	192,276
Surgical	7,895	176,034
Infectious diseases	—	—
Tuberculosis	193	7,565
Maternal complications	39	189
Others	1,367	8,097
<i>Total</i>	17,711	384,161

Cases included above who:—

(i) at the time of the first visit during the year were			
(a) 65 years or over	.....	.....	9,418
(b) Children under 5 years	.....	.....	2,342
(ii) had more than 24 visits during the year			
.....	.....	.....	3,875
			242,254

(h) The following visits were paid by the Superintendent and Assistant Superintendents:—

(i) Inspections	—District Nurses	.....	.....	244
	District Nurse Midwives	.....	.....	176
(ii) Special visits	.....District Nurses	.....	.....	41
	District Nurse Midwives	.....	.....	59
(iii) Meetings and lectures attended		.....	.....	36
(iv) Cases	Medical	.....	.....	1,084
	Surgical	.....	.....	213
	Injections	.....	.....	828
	Casual	.....	.....	21

During 1962 four courses were held in the County for district nurses and district nurse midwives at which 39 nurses attended.



# Section XI.-Handicapped Persons

## General

Under Section 29 of the National Assistance Act, 1948, the County Council provides Welfare Services for handicapped persons, and the scheme under this heading has been made the responsibility of the County Health Committee.

The classes of handicapped persons to which the section applies are the blind, the partially sighted, the deaf and dumb, and others substantially and permanently handicapped by illness, injury, congenital deformity, or such other disability as may be prescribed.

## Blind Persons

The Council's approved scheme so made continues, with necessary amplification, the scheme carried out in previous years in accordance with the Blind Persons Acts. Its details are executed by the Blind Welfare Societies at Chester, Ashton-under-Lyne, and Macclesfield, with which appropriate financial arrangements have been made. The Welfare Services of these Societies have been extended, so far as they are applicable, to partially sighted persons.

## Certification

To ensure that no person's name is placed on the register without the certificate of a medical practitioner with special experience in ophthalmology, all applicants were examined by one of the County Ophthalmologists. Those who so wished were examined a second time under the Medical Referee Service—conducted jointly with the North Regional Association—by independent Medical Referees.

## Statistics

Number of Registered Blind Persons in the County at 31st December

	1962
Under 5 years .. .. .	1
5—16 years .. .. .	33
16—21 years .. .. .	14
21—40 years .. .. .	75
40—50 years .. .. .	111
50—65 years .. .. .	250
65—70 years .. .. .	153
70 years and over .. .. .	902
Unknown age .. .. .	—
<b>Total .. .. .</b>	<b>1539</b>

Registered Blind Persons in County, aged over 16 years, employed,  
or otherwise, at 31st December, 1962—

	{ in Workshops & Workrooms	16
Employed	{ as Home workers	15
	{ variously	84
Not employed :		
Under 65 years of age	-----	330
65 years of age and over	-----	1047
Undergoing Training	-----	10
At School	-----	3

### Incidence of Blindness

During the year 1962 there were 364 forms B.D.8 received for the County. These were classified as follows:—

Registered as Blind.....	.....	.....	.....	210
Registered as Partially Sighted	.....	.....	.....	115
Not registered	.....	.....	.....	39

Follow up:

(i) Number of cases registered during 1962 in respect of which para. 7 (c) of Forms B.D.8 recommended:—	Cause of Disability							
	Cataract		Glaucoma		Retrolental Fibroplasia		Others	
	B	P.S.	B	P.S.	B	P.S.	B	P.S.
(a) No treatment	39	13	11	1	—	—	72	25
(b) Treatment (medical, surgical or optical)	27	27	19	12	—	—	40	39
ii) Number of cases at (i) (b) above which on follow-up action have received treatment	20	11	12	7	—	—	18	16

B—Blind.

P.S.—Partially Sighted.

### Ophthalmia Neonatorum

No case of Ophthalmia Neonatorum was notified during 1962.

### Workshop Employees

Annual grants were continued on the usual principles to recognised Workshops for Cheshire employees. A "minimum wage" principle has been adopted for certain workers, their income being made up to a nationally agreed fixed amount. On this principle there were 4 male and 2 female employees at Chester, 2 male employees at Macclesfield, 2 male employees at Stoke-on-Trent, 5 males and 1 female at Henshaw's, 1 male employee at Warrington, 1 male employee at Stockport and 1 male employee at Liverpool at the end of 1962.

### Home Workers

The three voluntary societies arranged for the employment at home of those capable of it. Augmentation in accordance with the National Scheme was given by the Council to all County approved Workers, who numbered 13 at the end of 1962.

## *Holidays*

During the year 11 blind persons were accommodated in holiday homes under the County Scheme whereby blind persons in receipt of National Assistance benefit can be sent to a recognised home for the blind. The blind person pays £1 towards the cost of one week's holiday, and the balance is paid by the County Council.

## *Rehabilitation*

Two males were maintained during 1962 at the National Institutes Rehabilitation Centre, Oldbury Grange, Bridgnorth.

## *National Library for the Blind*

Grant and augmentation were made in 1962 to the National Library for the Blind on behalf of 2 Cheshire Home Workers who are Blind Copyists for its northern branch, apart from the usual annual grant for general services, which are used by over 100 Cheshire residents.

## *Other Services*

The usual annual grants were continued in 1962 to the National Institute for the Blind and the North Regional Association for their respective national and regional services. An additional grant was paid to the National Institute in respect of its services in placing blind persons in open industry.

Grants are made when necessary towards training blind persons to work with guide dogs.

## *Wireless Certificates*

185 Certificates entitling the recipients to a free wireless licence were issued in 1962 to applicants on the register.

## *Social Clubs*

These clubs meet weekly for about three to four hours and their activities include simple handicrafts, games, and a number of afternoon outings in the summer months. There are clubs at Stalybridge, Hyde Cheadle and Marple.

## **Deaf Persons**

The County is fully covered by voluntary societies for the welfare of the deaf, and financial grants are made by the County Council to these societies, which act as authorised agents for the provision of advice and help, when desired, for the establishment of social centres and for outings and other recreational activities. A grant is also paid to the North Regional Association for the Deaf in respect of its statistical co-ordinating, and educational work.

In 1962 the registers kept by the societies of deaf persons were subdivided on the following lines according to the person's present condition and needs rather than according to the origin of his disability.

Deaf without speech: Those who have no useful hearing and whose normal method of communicating is by signs, fingers, spelling or writing.

Deaf with speech: Those who (even with a hearing aid) have little or no useful hearing, but whose normal method of communicating is by speech and lip-reading.

The numbers of Cheshire deaf persons on the registers of the societies at 31st December, 1962, were as follows:—

	<i>Deaf without speech</i>			<i>Total</i>
	<i>under 16 yrs.</i>	<i>16 to 64 yrs.</i>	<i>65 yrs. and over</i>	
Cheshire .....	25	88	11	124
Liverpool .....	—	15	7	22
Manchester .....	—	107	16	123
St. Vincent's (Liverpool) .....	—	2	—	2
Varrington .....	—	18	4	22
<i>Deaf with Speech</i>				
Cheshire .....	10	13	2	25
Liverpool .....	—	11	8	19
Manchester .....	—	35	7	42
St. Vincent's (Liverpool) .....	—	1	—	1
Varrington .....	—	6	—	6
<i>Total Deaf</i> .....	35	296	55	386

### Other Handicapped Persons

#### General

The registers of handicapped persons other than the blind and deaf are kept by Divisional Medical Officers. They are limited to persons who wish to receive benefits under the approved scheme. General advice is given on overcoming their handicaps, and on how to obtain such help as is available, either under this scheme, the hospital, local authority, or other aspects of the National Health Service, and from the many voluntary societies concerned with handicapped persons. The names and addresses and particulars of all handicapped school leavers are sent to the Divisional Medical Officers for follow-up and such action as may be necessary.

One example of help under this scheme is adaptation of premises inside or outside, to help handicapped persons to overcome their difficulties. Assistance in handicrafts is given when possible, with the cooperation of voluntary bodies.

### Statistics

The numbers of persons on the above registers were as follows at 31/12/62:—

M of L class.	Definition	Children under 16		No. on Register				Total
				Aged 16—64		Aged 65 & over		
		M.	F.	M.	F.	M.	F.	
A/E	Amputation	3	—	39	19	12	8	81
F	Arthritis and Rheumatism	1	—	38	109	19	142	309
G	Congenital malformations and deformities	52	51	51	86	1	6	247
H/L	Diseases of the digestive and genito-urinary systems; of the heart or circulatory system; of the respiratory system (other than tuberculosis) and of the skin	27	23	87	132	25	94	388
Q/T	Injuries of the head, face, neck, thorax, abdomen, pelvis or trunk. Injuries or diseases (other than tuberculosis) of the upper and lower limbs and of the spine	13	5	58	46	12	18	152
V	Organic nervous diseases—epilepsy, disseminated sclerosis, poliomyelitis, hemiplegia, sciatica, etc.	61	44	197	231	28	36	597
U/W	Neuroses, psychoses and other nervous and mental disorders not included in V	8	5	27	47	3	10	100
X	Tuberculosis (respiratory)	12	17	399	286	51	16	781
Y	Tuberculosis (non-respiratory)	14	8	65	62	3	4	156
Z	Diseases and injuries not specified above	28	12	40	38	9	26	153
Totals		219	165	1001	1056	163	360	2964

The Persons in the table above were distributed as follows in the County :—

Division	Number on Register			Total
	Children under 16	Aged 16 to 64 years	Aged 65 years and over	
Altrincham	17	67	33	117
Bebington	—	70	4	74
Cheadle and Wilmslow	34	111	16	161
Crewe	125	353	28	506
Deeside	16	235	45	296
Hyde	22	63	40	125
Macclesfield	55	396	122	573
Mid-Cheshire	—	118	9	127
Nantwich	35	187	17	239
N.E. Cheshire	8	69	17	94
Runcorn	—	33	4	37
Sale and Lymm	9	57	25	91
S.E. Cheshire	22	111	4	137
S.W. Cheshire	3	87	2	92
Stalybridge and Dukinfield	38	100	157	295
Totals	384	2057	523	2964

### *Epileptics and Spastics*

The number of persons on the Registers is not necessarily the total number of persons so handicapped. In regard to the above two important classes, the following are estimated totals:—

(a) Epileptics	
(i) Children under 16	181
(ii) Adults	132
(b) Spastics	
(i) Children under 16	244
(ii) Adults	76

Care is taken to ensure that, so far as possible, epileptic and spastic persons receive necessary treatment, education and accommodation. Co-ordination is effected when necessary with the residential welfare and the hospital services.

### **Alterations to Property**

During 1962 financial help was given towards the cost of adaptations inside or outside the homes of 71 handicapped persons to enable them to overcome their difficulties.

The types of work carried out were the provision of:—

- (a) Ramps to doorways
- (b) Pavement crossings and drives
- (c) Handrails inside and outside houses

A larger grant than usual was given towards the provision of a bedroom annexe.

## Day Clubs or Centres for the Handicapped

Chester City Council has a small centre attended by about a dozen physically handicapped persons each week, two of whom are from the County area. Occupations of the home craft type are taught and social activities enjoyed.

A successful club is being conducted at the Macclesfield Hospital attended by patients from the orthopaedic and geriatric departments of the hospital. Other clubs are held at the Brookfield Clinic, Cheadle, which has 36 members meeting fortnightly and conducted by the W.V.S., Hyde where the Cripples Aid Society, Manchester, holds a club weekly, and at Hazel Grove, fortnightly.

In Bebington the handicapped persons club held weekly in the Council Offices, Bromborough, met on 44 occasions and 18 persons made 700 attendances. The club is supervised by one of the health visitors, and a part-time occupational therapist who gives instruction mainly in soft doll making and leatherwork.

## Occupational Homework

The County Health Committee pays for an occupational therapist to work approximately half time in the Altrincham and Sale and Lymm divisions. A total of 30 cases received instruction during the year and 426 visits were paid. Knitting, crochet, embroidery, tapestry, marquetry, leather work and rug-making were the most frequent activities.

In the Crewe and Nantwich areas ex-patients of the Oswestry Orthopaedic Hospital received encouragement in home crafts from voluntary visitors and in other parts of the county the local British Red Cross Society members and other interested voluntary helpers supply materials for home occupations.

## Cripples' Help Society, Manchester

The area of the above Society extends over a large part of the County and in 1959 agreement was reached on the services which would be provided for handicapped persons by the Society and by the County Council in order to avoid overlapping.

Particulars of all handicapped persons are exchanged by the Society and the Divisional Medical Officers, provided the persons concerned do not object, and the following table shows the number of persons on the register of the Society in each of the Divisions at the end of 1962:—

Altrincham	.....	53	Nantwich	.....	4
Cheadle and Wilmslow	.....	45	North-East Cheshire	.....	57
Crewe	.....	11	Runcorn	.....	2
Deeside	.....	1	Sale and Lymm	.....	66
Hyde	.....	61	South-East Cheshire	.....	26
Macclesfield	.....	33	South West Cheshire	.....	1
Mid-Cheshire	.....	17	Stalybridge and Dukinfield	.....	88
		Total	.....	465	

The County functions cover:—

- (a) general visitation by health visitors
- (b) provision of domestic helps when required
- (c) provision of night sitters-in in exceptional cases
- (d) payment for special laundering
- (e) adaptations to homes in order that handicapped persons may overcome their handicaps
- (f) provision of "aids"
- (g) in suitable cases, arrangements for convalescence as a means of obtaining rest and change of air if there is a "health" reason for this action
- (h) provision of nursing aids including, in addition to those items usually classed as normal nursing aids, special chairs for spastics, special beds, hoists, three-legged sticks, etc.

The Society:—

- (a) arranges for visitation
- (b) teaches handicrafts when necessary
- (c) arranges for payment to be made to handicapped persons for suitable articles made by them in connexion with handicraft training
- (d) provides special nourishment in appropriate cases
- (e) arranges holidays, convalescence and outings
- (f) provides necessitous disabled persons with clothing
- (g) provides Christmas parcels when required
- (h) lends, when appropriate, invalid chairs, walking aids, page-turning machines and other appliances

### **Car Badges for Severely Disabled Drivers**

To ease the difficulties of severely disabled drivers in finding suitable parking places, the Ministry of Health issued circular 17/61 in July, 1961, recommending that badges should be issued to such drivers for display at the front and rear of their vehicles. While conferring no legal rights or privileges, the badges enable the drivers to be readily identified and assisted in parking, with discretion exercised in their favour wherever possible.

The County Health Committee decided that the issue of the badges should be delegated to the Divisional Health Committees subject to such issue being restricted to drivers whose disability was so severe as to render them able to walk only with difficulty.

In 1962, the divisions supplied 105 applicants with badges.



## Meals on Wheels

The following information has been supplied by W.V.S. County Office, indicating the scope of the work done in providing meals in the homes of old people during the quarter ended 31.12.62.

<i>Meals served</i>		<i>Meals served</i>	
Alderley Edge .....	425	Knutsford .....	450
Altrincham .....	1677	Marple .....	858
Barnton .....	722	Nantwich .....	451
Bebington .....	3366	Neston .....	435
Bollington .....	344	Northwich .....	495
Bramhall* .....	191	Poynton .....	584
Bredbury & Romiley	1492	Runcorn .....	183
Cheadle .....	750	Sale .....	1160
Christleton* .....	227	Sandbach .....	500
Congleton .....	900	Stalybridge .....	1080
Crewe .....	1146	Upton .....	291
Disley* .....	8	Waverton* .....	48
Dukinfield .....	558	Weaverham .....	532
Ellesmere Port .....	1061	Winsford .....	300
Frodsham .....	711	Whitegate .....	245
Hale .....	1116	Wilmslow .....	1141
Haslington .....	429	Wistaston .....	451
Hazel Grove .....	1119		
Holmes Chapel* .....	288	Total	30,319
Hoylake .....	542		
Hyde .....	2990		

\*Started during the quarter

## Homes for Old Persons and Disabled Persons

The regulations for registration and inspection of voluntary homes for old people, etc., namely the National Assistance (Registration of Homes) Regulations, 1949, are administered by the County Health Department, and the position for the year ended 31st December, 1962, is shewn below:—

	Homes for Old Persons		Homes for Disabled Persons	
	Homes	Number of Places provided	Homes	Number of Places provided
New Registrations, 1962 —	3	25	—	—
Registrations cancelled, 1962 —	3	21	—	—
Homes on Register, 31/12/1962 —	19	405	5	491

## Section XII, -Sanitary Administration\*

### 1. FOOD AND DRUGS ACTS AND REGULATIONS THEREUNDER

#### A. MILK AND DAIRIES

The Department continued its work during the year in connection with the milk supply, as a contribution towards the aim of ensuring that all milk produced, processed and sold within the County reaches the consumer in a clean and wholesome condition and free from disease-producing organisms.

This work was considerably increased in scope by virtue of the Milk (Special Designation) Regulations 1960, which came into operation on 1st January, 1961. Now all dealers' licences including all processors' and distributors' licences, with the exception of Producers Retailers' Licences (which are granted by the Minister of Agriculture Fisheries and Food) are granted by the County Council in their "Food and Drugs" area. Thus the County Council are responsible for the licensing of a very large number of milk dealers throughout the County, with the consequent inspections and sampling work involved.

Experience gained in the new duties during the first year was evaluated at the beginning of this year and a revised routine of sampling was introduced to give a wide sampling coverage based on the designation of milk and type of dealer. This coupled with the routine sampling previously carried out by the County Council and established over a number of years gives the maximum practical protection to the consumer.

Liaison between the County Council and the District Councils who are the Registration Authorities for distributors and dairies under the provisions laid down in the Milk and Dairies (General) Regulations 1959, was maintained, joint inspections being carried out where necessary, and appropriate action taken in regard to any contraventions of Milk and Dairies Regulations found.

District Councils are given the opportunity of making observations prior to any new licence being issued and copies of all relevant milk sample reports are sent weekly to the Medical Officer of Health concerned together with information of action taken regarding unsatisfactory samples when requested.

#### **Milk Production**

Producer licences are granted by the Minister of Agriculture, Fisheries and Food but a specific duty is laid upon County Councils by the Food and Drugs Act, 1955, Section 31 to administer provisions designed to prevent the sale of tuberculous milk and milk from cows suffering from any infection of the udder likely to convey disease.

\* This part of the report includes the work carried out by the County Health Inspector's Section.

The whole of Cheshire is subject to the operation of Specified Areas Orders, so that in the whole County only specially-designated milks may now be sold (*i.e.* Pasteurised, Sterilised and Tuberculin-tested).

A Conference was held in 1960 with appropriate officers of the Ministry of Agriculture, Fisheries and Food, when it was agreed that the essential thing, so far as biological and cultural testing is concerned, is to try to ensure the safety of the public in the case of milk sold *raw* under the special designation "tuberculin-tested". The other specially designated milks on sale are, of course, made safe from the point of view of pathogenic organisms by the pasteurisation and sterilisation processes which are under the licensing control of the County Health Department.

It was therefore agreed that all supplies of tuberculin-tested milk sold raw to the public should be submitted to biological and cultural examinations to ensure that the organisms of tuberculosis and brucellosis are not present.

It is the aim of the Department to obtain bulk samples thrice yearly from all herds in the County from which milk is sold raw to the public. At the request of the Public Health Laboratory Service, who of course, carry out the examinations, each bulk sample now contains the milk from not more than 10 cows. Raw milk coming from a producer from outside the County and not therefore covered by herd sampling is submitted for examination quarterly by means of a retail sample.

At the end of 1962 there were 325 herds in the County from which milk is sold raw to the public, and during the year 1,697 samples were submitted for biological and cultural examination, 89 of these samples being found to contain the organisms of *brucella abortus* (5.25%). This represents an improvement on the last two years. In 1960, 7.6% and in 1961, 6.1% of samples were found to be infected. However, it is significant to note that during the year 46 (14.15%) of the herds were at some time found to be affected with brucellosis. Tuberculosis was not isolated in any of the sampling.

The samples submitted for these examinations may be analysed as follows:—

Samples	Total Submitted	T.B. Positive	Brucella Positive
Bulk Farm	1395	0	80
Dealer	266	0	9
Hospital Farms (Ministry of Health)	15	0	0
Schools	21	0	0
<b>TOTALS</b>	<b>1697</b>	<b>0</b>	<b>89</b>

*Brucella abortus* causes abortion in cattle and is the organism responsible for undulant fever in man. Fortunately, although infection can occur from the consumption of quite small quantities of infected cream or milk it seems that the general resistance of the human body to brucella is usually high and this probably accounts for the fact that comparatively few human cases of undulant fever are reported.

However, undulant fever is not a notifiable disease, and the symptoms may quite easily be mistaken for those of other illnesses, so it seems quite likely that considerably more cases occur than are diagnosed, and more cases are diagnosed than are reported.

In co-operation with the Divisional Medical Officers a register of known human cases of undulant fever in the County is being kept. This was started in May, 1961, and at the time of writing this Report a total of 25 cases has been recorded. It would greatly assist the work in this field if undulant fever was made a notifiable disease.

Samples of milk found to contain evidence of brucella infection are immediately notified to the Divisional Veterinary Officer of the Ministry of Agriculture, Fisheries and Food, and the Divisional Medical Officer.

The Veterinary Officer visits each producer concerned and discusses the question of eradication of the disease from the herd. Two lines of attack are suggested:— (1) Calfhood vaccination with vaccine S.19 and (2) Individual cow sampling so that the infected animals can be found and disposed of. Unfortunately there are no powers at present by which infected animals can be compulsorily dealt with and they can thus be sold in the open market and carry the infection elsewhere.

The Divisional Medical Officers keep in touch with the infected herd with a view to preventing the milk from infected animals being sold raw to the public. In this field it would appear that the existing legislation for preventing the sale of infected milk is adequate if properly administered.

In the early part of the year the County Medical Officer of Health held talks with the Divisional Medical Officers and the Divisional Veterinary Officer of the Ministry of Agriculture, Fisheries and Food with the aim of standardising the procedure adopted. It was decided that in the event of a herd having two positive samples during the period of 12 months the Divisional Medical Officer should place an order on the herd under the provisions laid down in Regulation 20 of the Milk and Dairies Regulations, 1959, prohibiting the sale of the milk without heat treatment, and that the Divisional Veterinary Officer should arrange for individual cow samples to be taken. There was, however, still considerable variation in the method of dealing with other positive samples and to assist the Divisional Medical Officers the services of the County Milk Sampling Officers in the taking of individual cow samples were offered. By the end of the year, 186 individual cow samples had

been taken from 10 herds and 17 animals had been found to be positive. The brucella positive animals were dealt with by the Divisional Medical Officers and their Chief Public Health Inspectors, either by excluding them from the herd or by ensuring that their milk was sent for heat-treatment.

The long term hope is that eventually a national programme will be evolved for the eradication of this disease in the same way that tuberculosis has been tackled and eliminated.

In the meantime it must be made quite clear to the public that raw tuberculin-tested milk is not necessarily safe milk, and indeed many persons are being infected by the consumption of such milk. Efficient heat-treatment is still the only guarantee that milk is free from the organisms of brucellosis as well as other pathogenic micro-organisms and any person consuming raw milk or raw cream, even on a single occasion, may contract the disease of undulant fever which though not usually a fatal disease can at the same time bring ill-health over a period of months or even years.

### **Processing**

The County Council continued its important function of licensing and supervising all milk pasteurising and sterilising plants within its "Food and Drugs" area.

At the beginning of 1962, 18 pasteurising and 4 sterilising licences were in operation at 19 different dairies within the administrative area. During the year two pasteurising dairies ceased to process milk. These were both moderate sized concerns. In one case a company whose existing premises were rather old and congested took over another modern pasteurising dairy, transferred their processing to the new premises and then used their original premises as a milk distribution depot, and in the other case pre-packed milk was brought in. In each case the premises and plant are no longer being used for the pasteurising of milk. Thus at the end of the year, 16 pasteurising and four sterilising licences were in operation at 17 different dairies, as follows:—

#### **(a) Pasteurising Licences, High Temperature, short time plant.**

Castle Park Dairies Ltd., 54, Chester Road, Castle, Northwich.

Cooke Bros. (Tattenhall) Ltd., The Creamery, Tattenhall.

C.W.S. Ltd., The Creamery, Basford Bridge, Crewe.

C.W.S. Ltd., The Creamery, High Town, Congleton.

Express Dairy (Northern) Ltd., Pool Bank Dairy, Tarvin.

Wm. Horner Creameries Ltd., The Creamery, Cuddington, Northwich.

P. L. Rigby & Son, Mill Bank Dairy, Thelwall New Road, Grappenhall.

Runcorn & Widnes Co-operative Society Ltd., Perry Street, Runcorn.

United Co-operative Dairies Ltd., Dukinfield Road, Hyde.

United Dairies (Wholesale) Ltd., Calveley, Tarporley.

Wilmslow Creamery Ltd., Lyme Green Farm, Sutton, Macclesfield

b) **Pasteurising Licences (Holder Plant)**

G. Bickerton, Mayfield Dairy, Moreton New Road, Congleton.

H. Blake, Springwood Dairy, Goostrey.

T. D. Jackson, 1, Cross Lane, Cledford, Middlewich.

S. Morton & Son, Yew Tree Hall, High Legh, Knutsford.

Taylor & Farbon, Hartford Green Dairy, The Green, Hartford.

c) **Sterilising Licences**

C.W.S. Ltd., Knight Street Creamery, Windmill Street, Macclesfield.

Wm. Horner Creameries Ltd., The Creamery, Cuddington, Northwich.

United Co-operative Dairies Ltd., Dukinfield Road, Hyde.

United Dairies (Wholesale) Ltd., Calveley, Tarporley.

It will be seen that a number of small family concerns in the County are still continuing with the processing of milk, but the tendency is showing itself for milk processing to become concentrated in fewer and fewer large undertakings. In Cheshire we still have all sizes of undertakings from the small family business pasteurising as little as 110 gallons of milk per day to several of the largest dairies in the country, one of these processing 37,000 gallons of milk per day. In the latter cases the milk is often transported many miles outside Cheshire.

It is estimated that at the end of the year dairies licensed by the County Council processed 147,290 gallons of milk per day, of which 127,090 is pasteurised milk and 20,200 gallons sterilised milk. The importance of the work of supervising these dairies will be realised when one notes that this quantity of milk represents the daily consumption of a population of about 1,683,314 persons. As the population of the administrative county is about 944,190 it will be seen that the Department is actually safeguarding the supplies of a large population outside its own area.

Although the milk processed in the licensed dairies may be subject to sampling and examination by any of the authorities in whose area it is sold we receive very few notifications of unsatisfactory samples, which confirms the excellent records obtained by our own sampling and inspections.

The Department maintains a close check on licensed dairies in two ways. Samples of processed milk are collected three times a week from all the plants and these are examined by tests which show whether the milk has been adequately heat-treated and also whether the milk is of a satisfactory standard of cleanliness. Washed bottles are also collected at intervals of three weeks, six washed bottles are submitted on each occasion from the pasteurising dairies and brought to the laboratory for examination, to disclose the efficiency of the bottle-washing equipment in the dairy. In addition to this the County Health Inspector or his Deputy pay routine visits to the dairies from time to time and check, not only the processing but also the condition of the

premises and the general maintenance of good standards of hygiene; this work is very necessary. It is found that a visit especially to the smaller dairies, will often forestall a sample failure by detecting an incipient fault. But even in dairies where the sampling record is excellent and failures are exceedingly rare, it is found in many cases, unless the Inspector can pay a visit from time to time, the general hygienic standard of the premises tends to deteriorate. In other words, sampling of the milk by itself, however frequent, is not sufficient.

In the case of a milk sample failing to pass the prescribed test, and especially in the case of phosphatase failures, the County Health Inspector or his Deputy makes an immediate inspection to try to ascertain the cause of the failure. A phosphatase failure is regarded as a serious lapse on the part of the licence holder, but it seems impossible under present circumstances, completely to eliminate such failures. The majority of the failures occur at the smaller dairies where standards of equipment and supervision are often lower than at the large commercial dairies. The proportion of failures is, of course, very low when one considers the large number of samples taken.

From the figures given it will be seen that there were 21 phosphatase failures. (The phosphatase test is the official test for the correct heat-treatment of pasteurised milk). The total number of samples examined during the year by this test was 7,671. This represents a considerable decrease over the previous year when 34 of 7,974 samples failed this test. This represents a failure rate in 1962 of 0.27% on the phosphatase test as against 0.43% in 1961, 0.25% in 1960, 0.37% in 1959, 0.43% in 1958 and 0.66% in 1957. Of the 21 samples which failed, six were samples collected from the licensed dairies, three from schools (see separate report on Milk in Schools Scheme), one from County Council premises and 11 were dealers' samples. There is no doubt that the widespread and thorough nature of the sampling carried out detected a number of phosphatase failures which otherwise would not have been found. It is very significant too that 11 of the 21 phosphatase failures were on milk supplied by dairies in adjoining administrative areas. Four dairies were involved in the 11 failures and in each case they were referred to the Health Department of the Licensing Authority concerned for investigation. The remainder were investigated by the County Health Inspector or his Deputy. Five of the failures were from dairies operating holder-type plant, *i.e.* from the smaller dairies, and five were from dairies operating the high-temperature short time plant.

The five failures involving high-temperature short time plant, in fact, necessitated four investigations, because in one case two unsatisfactory samples of milk were processed on the same day. The investigations revealed that two failures were due to an inaccurate recording thermometer and a faulty flow diversion valve setting; in another it was found that the recording thermometer and flow diversion valve were out of order. In one instance no apparent cause could be found.

The five failures involving holder-type plant were found to be due to the following causes:—in two instances pasteurised milk was contaminated with raw milk; in one instance it was found that the plant thermometers were inaccurate and that the milk had been heat-treated at below the prescribed temperature; in another it was found to be due to inadequate holding temperature. In one investigation no apparent cause could be found.

In all these cases, severe warnings were given to the dairies concerned. The causes of the failures underline the need for regular routine inspections and plant checks of the processing dairies.

Only three of the 2,660 dairy samples failed the methylene blue test for cleanliness and keeping quality. In one investigation into two of the failures within a short time at the same dairy, it was found that the pasteurised milk was not being properly cooled and that the failure coincided with unsatisfactory washed bottle reports. This all happened when the dairy manager was on sick leave, the assistant dairy manager being in charge, and before the faults could be put right a large number of dealer samples also failed the methylene blue test. In the other instance no apparent cause could be found.

The number of bottles of sterilised milk submitted for examination decreased considerably from 2,527 in 1961 to 1,670 in 1962. This is due to reducing the frequency of dealer sampling of this grade of milk to one sample per dealer per year. It is realised that in the case of sterilised milk it is the dairy sampling which is the most important, and so frequency of dairy sampling was kept the same. None of the samples failed the turbidity test. The turbidity test is the official test for the correct heat-treatment of sterilised milk.

A total of 1,810 washed bottles were examined from pasteurising dairies. These are collected by the Sampling Officers in batches of six at approximately three-weekly intervals. The number submitted is less than in previous years owing to the closing down of two dairies. Of the 1,810 bottles examined, 1,483 were found to be "satisfactory", 36 "fairly satisfactory", and 291 "unsatisfactory". The number of washed bottles which did not come within the "satisfactory" category is much greater than last year. It must be borne in mind that these figures include the bottles taken in special investigations carried out on bottle washing machines as a result of unsatisfactory reports. In cases where an unsatisfactory report was received appropriate action was taken to correct inadequacies of plant or methods and in five cases special investigations became necessary. Two of the offending dairies were the ones which closed during 1962, another has closed down in the early part of 1963, a fourth is to have replacement bottle washing plant installed and at the other dairy the plant has been overhauled and it is hoped that this will resolve the problem. Although these examinations and standards have no statutory authority they are a most useful means of checking the efficiency of bottle-washing at the dairies concerned. It is found that even a modern bottle-washing machine does not necessarily produce clean and commercially sterile bottles.



Maintenance of dairies and dairy equipment is a continuous routine procedure from the hourly changing of filter cloths to the regular re-decoration of the premises. During the year, however, two of the larger dairies replaced their existing pasteurising plants with equipment of a higher hourly rating and another had the hourly rating of their existing pasteurising plant increased. In these three cases the County Health Inspector or his Deputy were present when the holding time and flow tests were carried out, and thorough checks were made on the plant thermometers and flow diversion valves. Samples of pasteurised milk were submitted for examination prior to the plant being used for routine pasteurisation. The early part of the year saw the culmination of years of planning and work when the largest dairy in the administrative area came into full production and the last of the small dairies in this group was closed. Work on the rebuilding and re-equipping of another of our large dairies is still proceeding and this should be completed during the coming year. One of the smaller dairies with most unsatisfactory premises is having a new dairy built and it is hoped that this will shortly come into use. Work was in progress on the construction and equipping of a new pasteurising dairy at the end of the year and it was expected that this licence would be issued early in the new year.

### **Distribution**

At the beginning of the year 34 Dealers' (Tuberculin Tested) Licences were in operation authorising the holders to buy in bulk raw tuberculin-tested milk from other licensed premises and to bottle and sell it as such; and 1,262 Dealers' (Pre-packed Milk) Licences were in operation authorising the holders to buy in and sell Pre-packed milk from other licensed premises.

During the year five Dealers' (Tuberculin Tested) Licences and 146 Dealers' (Pre-packed Milk) Licences were issued, and nine Dealers' (Tuberculin Tested) Licences and 157 Dealers' (Pre-packed Milk) Licences were cancelled. Thus, at the end of the year 30 Dealers' (Tuberculin Tested) Licences and 1,251 Dealers' (Pre-packed Milk) Licences were in operation in the County's Food and Drugs Area.

Systematic dealer sampling is arranged to give a coverage to all the licensed dealers according to the types of milk being sold (one licence may authorise the sale of all three specially-designated milks). Retail sampling of producer-retailers is also carried out. Although producer-retailers operate under the Ministry licence, the Ministry sample only on the farm, and it is considered essential to sample these milks during course of retail delivery in order to give adequate protection to the consumers. Milk coming into the County for retail sale from surrounding areas is also subjected to sampling. Samples are also taken in course of delivery to schools and to other County Council premises, and from a small number of Hospital Farms at the request of the Ministry of Health. It can thus be fairly claimed that all milk sold to the public in Cheshire is sampled and controlled by the County Health Department.

The following table summarises the results of this sampling during 1962:

	RAW MILK			PASTEURISED MILK			STERILISED MILK		
	Total No. of Samples	Meth. Blue Fails.	Voids	Total No. of Samples	Meth. Blue Fails.	Voids	Phos. Failures	Total No. of Samples	Turb. Fails.
Dealer Samples	2,364	242	8	3,191	95	1	11	1,061	—
Wholesale Samples	37	7	—	1,603	33	1	3	—	—
Producer Premises Samples	1	—	—	217	5	1	1	—	—
Wholesale Farms	20	—	—	—	—	—	—	—	—
TOTALS:	2,422	249	8	5,011	133	3	15	1,061	—

It will be seen from the above table that 10·29% of raw milk samples and 2·65% of pasteurised milk samples taken in the course of retail delivery failed the methylene blue test (for cleanliness and keeping quality). These figures leave it in no doubt where the problem lies (and it is for this reason that the number of dealers' samples of raw milk collected was considerably increased during 1962, while the number of dealers' samples of sterilised milk was considerably reduced). It would appear that during warm weather very great care has to be taken in the production of milk which is to be retailed raw and the milk must be retailed as soon after production as is practically possible.

The statutory test to check the hygienic quality of milk at the production stage is at present the "clot-on-boiling" test; unfortunately this does not take into account the age of the milk when it will be delivered to the retail customer. It would appear that there is the need for the test on producer samples to take this into account. In a number of instances dealer samples have failed the methylene blue test but samples taken on the farm have satisfied the clot-on-boiling test. This applies particularly to farm bottled milk that passes through the hands of a wholesaler before it reaches the retailer.

The percentages of methylene blue test failures, 10·29% for raw milk and 2·65% on pasteurised milk, are a considerable improvement on last year's figures when 17·22% of raw milk and 3·34% of pasteurised milk failed the test. A number of complex factors affect these results but I feel that the major part of this improvement can be attributed to the work of this Department.

Procedure in the event of a methylene blue test failure on a sample of raw milk is this: the producer-retailer, or the dealer, wholesaler if any, and producer, also the Divisional Milk Officer of the Ministry of Agriculture, Fisheries and Food (who is responsible for clean milk production on farms), are notified. A repeat sample is taken two weeks

later, and should this fail, all interested parties are again notified and attention requested. If investigation and advice by the Ministry of Agriculture, Fisheries and Food is indicated, the Divisional Milk Officer is requested to carry it out. If the sample is sold by virtue of a County Council licence the failures are investigated by the County Health Inspector or his Deputy.

The procedure for dealing with methylene blue test failures on samples of pasteurised milk differs only in the persons notified. The dealer and processor are informed. Failures on repeat samples of pasteurised milk are comparatively rare.

In the majority of cases the initial informal action had the desired effect, the repeat samples proving satisfactory.

Milk vending machines still present some problems. However these are usually resolved when the person servicing the machine realises that even though the machines are properly refrigerated, milk if it is to satisfy the methylene blue test, cannot be left in the machine longer than two days.

Approximately 2/3 of the large pasteurising dairies include a system of coding on the foil caps of their bottles. This is noted by the Sampling Officer on his report. Should the sample fail, the age of the milk can be found. This greatly assists in finding the possible cause of the failure and in preventing similar troubles in the future; and it would greatly assist the work of the Department if all milk on retail sale could be similarly coded so that the day of processing or production and bottling could be readily checked.

In no case during the year was it considered necessary to institute statutory proceedings with a view to suspending or revoking a Dealer's Licences.

Washed bottles from Dealers' (Tuberculin Tested) Licensed premises were collected by the Sampling Officers in the same way as from the pasteurising dairies. A total of 275 examinations were made 247 were satisfactory, 1 was fairly satisfactory and 27 were unsatisfactory. Advice was given to the dairyman where necessary, resulting in improved bottle-washing technique, and satisfactory results on re-sampling.

## Milk in Schools Scheme

All milk supplies under this Scheme are subject to the approval of the County Medical Officer, and the County Health Department supervises all supplies by means of systematic sampling, and by routine inspections of dairies within their jurisdiction from which school milk supplies emanate.

Any new supply proposed for any particular school is first referred by the Director of Education to the Health Department for approval.

So far as the approval of particular sources is concerned, a suitable supply of pasteurised milk is obtained wherever possible. If this is not available, a supply of tuberculin-tested (raw) milk has so far been accepted.

As will be seen from the table at the end of this section, at the end of the year, only four of the 668 schools in the county were being supplied with raw tuberculin-tested milk. This is two less than last year, and the whole of the remainder have a supply of pasteurised milk. It appears that under present circumstances and owing to the rural nature of the schools it will not be possible to obtain a supply of pasteurised milk to three of these schools. It is hoped, however, in the remaining case that a supply of pasteurised milk will be provided when the existing contract expires.

No school in the county was without a supply of liquid milk at any time during the year.

During 1962, sampling of all school milk supplies throughout the County continued, all samples being collected as the milk was being delivered to the schools themselves. A total of 1,686 samples was collected, as compared with 2,030 in 1961. All the schools in the administrative county are visited with the exception of the 32 schools in the area of the Crewe Borough Council. Here the Borough Health Department carry out regular school milk sampling by arrangement with the County Health Department and notify all results. During 1962, 46 samples were collected at the Crewe schools. All were satisfactory on both the methylene blue test and the phosphatase test.

Of the 1,603 samples of pasteurised milk collected by the County Health Department, 33 samples failed the methylene blue test (for cleanliness and keeping quality), and three samples failed the phosphatase test (for adequate pasteurisation).

Immediate action in the case of sample failures is taken by the County Health Inspector.

The 33 methylene blue test failures were a very substantial decrease on the 81 failures during 1961. The big decrease was no doubt due to the action taken by the Department during the summer and latter part of 1961. It is hoped that this improvement will be maintained during the current year.

Appropriate action was taken in the case of all these failures, and repeat samples were taken to ensure that a satisfactory standard was attained.

The three samples which failed the phosphatase test, compared with eight failures on 1,925 samples in 1961, were again an improvement on the previous year. Two dairies were concerned with the failures. These are situated, one in the area of an adjoining County Borough and the other in an adjoining County. They were referred to the Medical Officer of Health and the County Medical Officer of Health respectively for appropriate action. In all cases a thorough investigation was carried out; no reason for these failures was found. It is significant to note that none of the samples of pasteurised milk processed in dairies under the control of the County Council failed the phosphatase test.

In addition 37 samples of tuberculin-tested (raw) milk were collected, and of these seven samples failed the methylene blue test for cleanliness and keeping quality. In 1961, 46 samples of such milk were collected and nine failed the test. The sample failures were immediately notified to the Ministry of Agriculture, Fisheries and Food, which is responsible for clean milk production on the farms, with a request for appropriate action. Repeat samples were then, in general, found to be satisfactory but in one case a total of 12 samples were collected during the year, of which four were unsatisfactory. This is the supply to a school in a very isolated area where no pasteurised milk is available and where there is difficulty in obtaining alternative sources of supply. Both the Ministry and the producer were pressed for improvement.

In addition to the examinations quoted above, these raw T.T. supplies are given special attention by way of biological examination in view of the fact that they *are* raw milks.

During the year 21 school samples and 12 sets of bulk farm samples were submitted for biological and cultural examination. In no case were the organisms of tuberculosis or abortus fever isolated.

The efficiency of the washing of school milk bottles at the dairies licensed by the County Council was checked by the collection of 335 washed school milk bottles from these dairies when the sampling officers were visiting for the purposes of other sampling under the Milk and Dairies Regulations. On the colony count (a test for the bacteriological cleanliness of the bottle), 266 were found to be satisfactory, 18 fairly satisfactory and 51 unsatisfactory. The number of unsatisfactory bottles is a substantial increase on the 1961 figure, when only six were unsatisfactory. Almost half of the bottles which were not satisfactory were obtained from three medium-sized dairies which have now closed. These were being pressed by the department for improvements in their bottle-washing equipment, and in two cases the department carried out special investigations. In the other case one reason for the dairy closing was the defective bottle-washing machine. Another dairy involved with the unsatisfactory results is now replacing its present congested

and poor premises with a new dairy. The remaining unsatisfactory bottles were fairly evenly spread over the remaining dairies, i.e. they were isolated incidents which did not recur.

It is thus seen that a considerable amount of work is carried out to try to ensure that each day, while the schools are open, the whole of the 115,500 or so pupils who take school milk receive an article which is clean and free from all pathogenic organisms and is delivered in clean undamaged containers.

Occasional complaints do arise regarding dirty bottles, cracked or broken bottles, foreign bodies in the milk (including, sometimes, glass splinters), dirty condition of crates and unsatisfactory service. Cases of foreign bodies in the milk are dealt with by the Weights and Measures Department, which investigates and deals with the matters appropriately, if necessary instituting proceedings. The remaining matters are dealt with by the County Health Inspector, in some cases in co-operation with the local health departments.

In almost all instances, the bottles are satisfactorily dealt with at the schools, i.e. the bottles are emptied completely, caps and straws removed and the bottles placed for collection the next day. Under these circumstances, and even though no rinsing of school milk bottles is carried out at the schools, the dairies should have no difficulty in seeing that all bottles are adequately cleansed before re-filling, thus complying with their legal responsibilities. It inevitably happens however from time to time that a certain number of school milk bottles are mislaid or misused, and it does mean in these cases that the dairies must give such bottles special treatment to get them into a clean and sterile condition again, and fit for use as milk containers. In some counties, the use of non-returnable containers (cartons) is being experimented with, and it may well be that this will eventually be the answer to the snags which do sometimes arise in the case of the glass container.

Tables are given below showing the sampling which was carried out during 1962 and the results of such sampling, also the position regarding school milk supplies at the end of the year.

#### SCHOOL MILK SAMPLES AND EXAMINATIONS, 1962

	Total Samples Collected	Phosphatase Test		Methylene Blue Test*	
		Passed	Failed	Passed	Failed
Pasteurised	1649	1646	3	1615	33
Tuberculin-tested (raw)	37	—	—	30	7
<b>TOTALS</b>	<b>1686</b>	<b>1646</b>	<b>3</b>	<b>1645</b>	<b>40</b>

\*The Methylene Blue test was void in one case owing to high atmospheric shade temperature.

At the end of 1962, the position in the county regarding school milk supplies could be summarised as follows:—

Type of Milk	Schools sampled by Cheshire C.C.		Schools sampled by Crewe M.B.C.		No. of Children supplied	
	No. of different supplies of milk	No. of schools supplied	No. of different supplies of milk	No. of schools supplied	Total	As % of Total
Pasteurised	67	632*	1	32†	115,353	99·
Tuberculin-tested (raw)	4	4‡	—	—	183	0·
<b>TOTALS:</b>	71	636	1	32	115,536	—

† Figures obtained from a census taken on a selected day in October, 1962.

\* Includes 103 non-maintained Schools.

† Includes 1 non-maintained School.

‡ Includes 1 non-maintained School.

(The milk in Schools Scheme has applied to non-maintained schools since 1st September, 1956, and all children attending both maintained and non-maintained Schools are entitled to one-third of a pint of milk free daily).

### Public Health Laboratory Service

All milk and associated examinations are now carried out on behalf of the County Council by the Public Health Laboratory Service of the Ministry of Health. The Chester Laboratory is used for samples from all parts of Cheshire except the north-east, samples from this area being dealt with by the Laboratory at Monsall Hospital, Manchester.

Statistics, 1962

(1) Analysis of Milk Samples collected during 1962:—

	RAW (TUBERCULIN TESTED) MILK						PASTEURISED MILK						STERILISED MILK		
	Biological and Cultural		Methylene Blue				Total	Methylene Blue			Phosphatase Test		Total	Turbidity Test Failures	
	T.B. Pos.	Brucella Pos.	Total	Sat.	Fail	Void		Sat.	Fail	Void	Sat.	Fail			
Dairy Samples	—	—	—	—	—	—	2657	3	—	—	2654	6	—	609	—
School Samples	21	—	37	30	7	—	1570	33	1	—	1600	3	—	—	—
Home Samples	—	—	1	1	—	—	212	5	1	—	216	1	—	—	—
Hospital Farms	15	—	20	20	—	—	—	—	—	—	—	—	—	—	—
Dealer Samples	266	—	2364	2122	242	8	3096	95	1	—	3180	11	—	1061	—
Farm Samples	1395	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>TOTALS:</b>	1697	—	2422	2173	249	8	7535	136	3	3	7650	21	—	1670	—



**(2) Results of Bottle Examinations:—**

	Satisfactory	Fairly Satisfactory	Un-satisfactory	Total
Pasteurising Dairies	1,483	36	291	1,810
T.T. Bottling Dairies	247	1	27	275
<b>TOTALS:</b>	<b>1,730</b>	<b>37</b>	<b>318</b>	<b>2,085</b>

**(3) Summary of all Samples collected during 1962:—**

From Milk Pasteurising and Sterilising Establishments	3,269
In course of delivery to Schools	1,640
In course of delivery to other County establishments	218
From dealers, including producer-retailers and vending machines	6,616
From Hospital Farms (for Ministry of Health)	20
From Farms (for biological and cultural examinations)	1,395
<b>Total Milk Samples collected</b>	<b>13,158</b>
Washed bottles submitted for examination	2,085
<b>Total specimens submitted</b>	<b>15,243</b>

## B. FOOD AND DRUGS ACT

The Chief Inspector of Weights and Measures (Mr. Howard Hughes) reports as follows on the work of his Department in so far as relates to the administration of those provisions of the Food and Drugs Act, 1955, which are designed to prevent the sale of adulterated and non-standard food and drugs.

The County Council is the Food and Drugs Authority for the whole of the Administrative County except the Urban District of Headle and Gatley and the Municipal Boroughs of Crewe, Sale, Macclesfield and Altrincham. The latter authority on reaching a population of 40,000 took over the responsibility of administering the Act from the 1st May, 1962.

In general, the administrative work under the Act and the numerous Regulations is carried out by officers of the Weights and Measures Department, and to this end samples of food and drugs in wide variety are procured on a basis of 3 to 4 per 1,000 of the population, and submitted to the Public Analyst for analysis. A full report is received concerning any sample which is considered unsatisfactory and any further action is determined after consideration of the Analyst's observations.

During the year ended 31st December, 1962, 2,124 samples of milk and other foods together with a considerable number of drugs were submitted for analysis of which the following list gives an indication of the variety of samples obtained, together with those which were reported as unsatisfactory:—

<i>Article</i>	<i>Total Analysed</i>	<i>Samples certified as adulterated or otherwise not in order</i>
Almond Macaroons .....	1	1
Apple Fizz .....	1	1
Beef Sausage .....	17	3
Boiled Ham .....	1	1
Bread .....	5	3
Bread Roll .....	1	1
Buttered Rum Truffles .....	2	2
Carrots—Tinned .....	1	1
Casserole Steak—Tinned .....	4	1
Cereal .....	1	1
Chocolate Egg .....	1	1
Chocolate Whisky Bottles .....	3	3
Clear Mixed Pickles .....	1	1
Crab—Tinned .....	1	1
Cream of Tartar .....	4	1
Dietary Biscuits .....	1	1
Eucalyptus Oil .....	2	1
Fish Cakes .....	8	2
Glycerine .....	4	2
Ground Cinnamon .....	1	1
Halibut Liver Oil Capsules B.P. ....	2	1
Ham Spread .....	1	1
Lemonade .....	4	2
Meat Pie .....	2	2
Milks .....	1,262	89
Mixed Pickles .....	2	1
Molasses Tablets .....	1	1
Peas—Tinned .....	2	1
Pork Pie .....	1	1
Pork Sausage .....	35	4
Potato Crisps .....	1	1
Potted Beef .....	3	1
Potted Salmon .....	1	1
Rum Butter .....	2	2
Rum Fudge .....	1	1
Sausage .....	1	1
Sausage Roll .....	1	1
Shredded Beef Suet .....	6	1
Sliced Onions .....	1	1
Sugar .....	3	2
Thick Cream .....	3	2
Fresh Fruit and Vegetables .....	135	—
B.P. Official preparations, simple household medicaments, etc. ....	98	—
Miscellaneous groceries and unclassified articles .....	496	—
	<hr/> 2,124	<hr/> 146

## MILK

As milk is a basic food which can be easily adulterated some three-fifths of the number of samples taken consisted of milk in various stages of transit from the cow to the consumer. From the above table it will be observed that of the 1,262 samples of milk obtained, the Public Analyst reported 89 to be unsatisfactory, and of these 28 were genuine but abnormal, 39 deficient in fat by amounts varying from 2.5% to 23.3% and 11 adulterated with water in amounts varying from 2.3% to 25%. In addition, 11 samples were reported as containing dirt or other foreign matter.

Comparative figures for the past three years concerning non-standard milk samples are set out below:—

### MILK SAMPLES

	1960	1961	1962
Number containing extraneous water	4	19	11
Number deficient in solids-not-fat (sub-normal) .....	45	43	28
Number deficient in milk fat .....	18	17	39
Number containing dirt .....	—	4	11
	67	83	89

### Samples other than Milk

In the course of routine sampling, particular attention has been paid to dairy products, sausages, ice cream and iced lollies, spirits, meat products and other articles of food for which a statutory compositional standard has been made.

During the year there was a considerable increase in the number of complaints received from private purchasers regarding articles of food containing foreign matter and in those cases where identification of the foreign matter was not obvious the article was submitted to the Public Analyst. These included a slug in a tin of peas, tobacco and string in a loaf of bread, mould in a meat pie, a large fly embedded in boiled ham, and an earwig in a meat pie. Legal proceedings were instituted in all these cases and heavy fines imposed, details of which are given in the Table of Prosecutions. In addition, letters of caution were forwarded as was considered necessary.

Altogether some 57 articles of food other than milk were reported against in respect of quality or the presence of foreign matter and in several instances where labels or other literature given with foodstuffs were considered misleading, manufacturers were approached and agreed to amend the statements in accordance with the suggestions made by the Department. Details of these samples are set out in the table below together with the action taken in each case:—

- 1 **Pork Sausage.** Contained 150 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 2 **Beef Sausage.** Contained 125 p.p.m. undeclared sulphur dioxide preservative. Seller cautioned.
- 3 **Tinned Crab.** Contained 3 p.p.m. of phenols in wrapping paper. Importer cautioned.
- 4 **Bread.** Contained oil and dirt. Baker cautioned.
- 5 **Bread.** Contained piece of plastic. Baker cautioned.
- 6 **Sausage Roll.** Contained 3in. length of artery. Referred to Manufacturer.
- 7 **Pork Sausage.** Declared to contain preservative but none found. Manufacturer informed.
- 8 **Glycerine.** Contained 3% extraneous water. Seller cautioned.
- 9 **Sliced Onions.** Contained 43 p.p.m. of sulphur dioxide preservative. Seller cautioned.
- 10 **Halibut Liver Oil Capsules B.P.** Did not conform to label requirements of current B.P. Manufacturer informed.
- 11 **Pork Sausage.** 10% deficient in pork. Manufacturer cautioned.
- 12 **Buttered Rum Truffles.** Devoid of rum. See formal sample 5.
- 13 **Thick Cream.** Contained less than 48% milk fat. Seller £27 10s. 0d. including costs.
- 14 **Beef Sausage.** Contained 190 p.p.m. of undeclared sulphur dioxide preservative. Seller cautioned.
- 15 **Beef Sausage.** 10% deficient in meat. Seller cautioned.
- 16 **Potted Beef.** Contained only 80% of minced beef. Manufacturer cautioned.
- 17 **Molasses Tablets.** Labelled ingredients bore no resemblance to actual. Manufacturer cautioned.
- 18 **Potted Salmon.** Contained only 90% of salmon. Manufacturer cautioned.
- 19 **Fish Cakes.** 34.3% deficient of fish. See formal sample 35.
- 20 **Chocolate Egg.** Contaminated with mites and mould. Wholesaler cautioned.
- 21 **Lemonade.** Contained 0.4 p.p.m. phenols. Manufacturer cautioned.
- 22 **Eucalyptus Oil.** Contained 0.4% of water. Seller cautioned.

- Glycerine.** Contained slight excess of water. Seller cautioned.
- Ground Cinnamon.** Contained only 0.4% of volatile oil. Seller cautioned.
- Potato Crisps.** Consisted partly of burned crisps. Manufacturer informed.
- Pork Sausage.** 9% deficient in pork. Seller cautioned.
- Dietary Biscuits.** Claims on enclosed pamphlet misleading. Manufacturer to amend.
- Bread Roll.** Contained charred dough. Referred to Bakers.
- Tinned Carrots.** Contained 3 p.p.m. of paraffin. Cannery cautioned.
- Bread.** Contaminated with tobacco. Sellers fined £28 5s. 0d., including costs.
- Pork Pie.** Contaminated with mould. Seller fined £31 17s. 6d., including costs.
- Sugar.** Contained 11% of salt. Suppliers cautioned.
- Lemonade.** Having an odour of turpentine. Manufacturers cautioned.
- Sugar.** Contained 3.5% of salt. Seller cautioned.
- Fish Cakes.** 10.9% deficient in fish. Seller cautioned.
- Mixed Pickles.** Contaminated with mites and a fly. Seller fined £25 0s. 0d., including costs.
- Rum Butter.** Contained less than 0.5% of rum. See formal sample 38.
- Rum Butter.** Contained less than 0.5% of rum. Seller fined £27 17s. 0d., including costs.
- Sausage.** Contained 255 p.p.m. of undeclared sulphur dioxide preservative. Seller cautioned.
- Tinned Peas.** Contained slug. Cannery fined £16 8s. 0d., including costs.
- Apple Fizz.** Contained 68 p.p.m. of sulphur dioxide and 47 p.p.m. of benzoic acid. Manufacturers cautioned.
- Almond Macaroons.** Ingredients not listed in proper order. Manufacturers to amend labels.
- Thick Cream.** Contained less than 48% milk fat. Seller fined £8 5s. 0d., including costs.

- 44 **Clear Mixed Pickles.** Contained 45 p.p.m. of undeclared sulphur dioxide preservative. Manufacturers cautioned.
- 45 **Chocolate Whisky Bottles.** Labelled "Full Strength Spirit", contained only  $\frac{1}{3}$  of 65° proof spirit. Labels to be amended.
- 46 **Chocolate Whisky Bottles.** Labelled "Full Strength Spirit", contained only  $\frac{1}{3}$  of 65° proof spirit. Labels to be amended.
- 47 **Chocolate Whisky Bottles.** Labelled "Full Strength Spirit", contained only  $\frac{1}{3}$  of 65° proof spirit. Labels to be amended.
- 48 **Tinned Casserole Steak.** Contained large beetle. Importer £31 16s. 0d., including costs.
- 49 **Shredded Beef Suet,** 3.7% deficient in fat. Seller cautioned.
- 50 **Ham Spread.** 9% deficient in meat. Importer cautioned.
- 51 **Boiled Ham.** Contained parts of a fly. Seller fined £11 8s. including costs.
- 52 **Meat Pie.** Contaminated with sulphuric acid. Sellers cautioned.
- 53 **Cream of Tartar.** Contained mould. Stock withdrawn. Seller cautioned.
- 54 **Rum Fudge.** Devoid of rum and deficient in butter. Manufacturer cautioned.
- 55 **Cereal.** Ingredients not listed in proper order. Manufacturer amend labels.
- 56 **Meat Pie.** Contained earwig. Seller fined £15 10s. 6d., including costs.
- 57 **Buttered Rum Truffles.** Contained only 0.8% of 65° proof spirit. Labels to be amended.

<i>Offence No.</i>	<i>Trade</i>	<i>Nature of Offence</i>	<i>Act</i>	<i>Penalty Fines and Costs</i>
<b>FOOD AND DRUGS ACT.</b>				
1	Dairy Company	Selling milk containing 54.1% extraneous water.	Food & Drugs Act, 1955.	Case Dismissed. Appeal to High Court was successful with direction to convict. At re-hearing defendants were granted an absolute discharge on payment of £2 4s. 10d. costs.
2	Grocer	Selling thick cream containing less than 48% of milk fat.	ditto	£27 10s. 0d.
3	Pie Manufacturer	Selling a steak pie containing adhesive plaster.	ditto.	£20 0s. 0d.
4	Farmer	Selling milk in seven churns, three of which contained 7% extraneous water.	ditto	£15 13s. 0d.
5	Dairy Company	Selling milk containing 7% extraneous water.	ditto	£27 0s. 0d.
6	Bakers	Selling cake which was in a mouldy condition.	ditto	£5 0s. 0d.
7	Bakers	Selling a meat pie containing a piece of wire.	ditto	£3 0s. 0d.
8	Dairy Company	Selling a bottle of milk containing a fire-work.	ditto	£5 0s. 0d.



**TABLE OF PROSECUTIONS.**

<i>Offence No.</i>	<i>Trade</i>	<i>Nature of Offence</i>	<i>Act</i>	<i>Penalty Fines and Costs</i>
9	Farmer	Selling milk in two churns one of which contained 7% extraneous water.	Food and Drugs Act, 1955.	£12 10s. 0d.
10	Supermarket	Selling pork pies contaminated with mould.	ditto	£31 17s. 6d.
11	Bakers	Selling a loaf of bread containing tobacco and string.	ditto	£28 5s. 0d.
12	Dairy Company	Selling milk containing a piece of glass.	ditto	£15 5s. 0d.
13	Baker	Selling a meat pie containing a fly.	ditto	Dismissed.
14	Importer	Selling corned beef containing a piece of metal.	ditto	£5 0s. 0d.
15	Farmer	Selling milk in 20 churns, four of which contained 5.9, 2.3, 5.9 and 7% extraneous water.	ditto	£15 13s. 0d.
16	Grocers	Selling thick cream containing less than 48% of milk fat.	ditto	£8 5s. 0d.
17	Food Canners	Selling tinned peas containing a slug.	ditto	£16 8s. 0d.
18	Dairy Company	Selling milk containing pupae of an insect.	ditto	£33 8s. 0d.
19	Manufacturer	Selling an iced lolly containing a fly.	ditto	£20 12s. 6d.

<i>Offence No.</i>	<i>Trade</i>	<i>Nature of Offence</i>	<i>Act</i>	<i>Penalty Fines and Costs</i>
21	Grocers	Selling a loaf of bread containing pieces of a button.	Food and Drugs Act, 1955	£18 3s. 0d.
22	Farmer	Selling two bottles of milk, one of which contained grit.	ditto	£16 10s. 0d.
23	Fish and Chip Shop Proprietor	Selling a meat pie containing an earwig.	ditto	£15 10s. 6d.
24	Grocers	Selling rum butter containing only 0.5% rum.	ditto	£27 17s. 0d.
25	Multiple Stores	Selling jar of pickles containing mites and a small fly.	ditto	Acquitted.
26	Manufacturer	Prosecuted as actual offender in 25.	ditto	£25 0s. 0d.
27	Farmer	Selling milk in 7 churns, two of which contained 11.6 and 25% extraneous water.	ditto	Acquitted.
28	Cowman	Prosecuted as the actual offender in 27.	ditto	£22 3s. 0d.
29	Manufacturers	Selling fish cakes containing pieces of stone.	ditto	£23 13s. 0d.
30	Food Manufacturers	Selling packet of frozen peas containing metal object.	ditto	£13 3s. 0d.
31	Food Importer	Selling tin of steak containing a beetle.	ditto	£31 16s. 0d.

Also of interest was the number of samples of fresh fruit and vegetables, both foreign and home produced which were submitted for analysis in order to check the after effects of pesticide sprays. Although 135 of these were examined during the year it is interesting to note that not one sample was reported to be contaminated with spray residue.

In conclusion, although the number of samples reported against by the Public Analyst (J. Graham Sherratt, Esq., B.Sc., F.R.I.C.,) was 146 compared with 127 for the previous year it must be pointed out that manufacturers generally are most anxious to co-operate with the Department to ensure that a high standard of wholesome food is available to the consumer. It does appear, however, that householders are more ready to bring to the notice of the Department details of food purchases with which they are not satisfied. Consequently, Inspectors of the Department will continue to submit those articles for analysis which are considered most likely to be adulterated in order that the housewife can purchase food and drugs of good quality with some degree of confidence.

## 2. SCHOOL SWIMMING POOLS

For a considerable number of years older children from the County Junior Schools and children from Secondary and Grammar Schools, where practically possible, have received swimming instruction as part of the school curriculum at the nearest public, or, in two instances, privately-owned pools.

In recent years a number of schools have, by one means or another, constructed or are negotiating for the construction of their own swimming pools. In some counties the provision of school pools has gone ahead at a greater pace than in Cheshire, and it is thought that in Cheshire this trend will develop.

The Cheshire Education Committee issued a memorandum in February, 1962, on their policy for the "Provision of Swimming Baths". This laid down that all pools must be provided with a filtration plant (including automatic chlorination equipment) satisfactory to the Principal School Medical Officer.

By the summer of 1962 there were four schools with their own open-air swimming pools, another was in the course of construction and several more were in the planning stage for construction in the near future.

Details of the pools in use during 1962 are as follows:—

- |  |   |
|--|---|
| 1. Calday Grange County Grammar School | 56,500 gallons capacity. "Fill and Empty" system. Hand chlorination using liquid hypochlorite.                |
| 2. Capenhurst Grange Special School    | "Purley" learner pool. 4,200 galls capacity. Purley filtration and liquid hypochlorite automatic chlorinator. |
| 3. Greasby County Junior School        | Learner pool. 14,000 galls. capacity. Diatomaceous earth filter. Liquid hypochlorite automatic chlorinator.   |
| 4. Lymm Grammar School                 | Heated. 72,000 galls. capacity. Pressure sand filter. Automatic chlorinator using chlorine gas.               |

Of these, the Calday Grange and Lymm pools had been in use for a number of years, and it will be noted that the Calday Grange pool was not equipped with filtration or chlorinating plant and had to rely on hand chlorination.

Regular routine visits by the County Health Inspector or his Deputy were made in 1962 during the period when the pools were in use and any problem which may have arisen was discussed. Records kept by the person in charge of the pool were inspected and a check was made of the residual chlorine in the water.

Samples for bacteriological examination were also taken and submitted to the Public Health Laboratory Service for examination. Normally three samples were taken on each occasion, one each from the inlet, outlet and centre section of the pool. By this means a representative picture was obtained of the bacteriological condition of the water in the pool.

A total of 83 samples were taken during the season. 64 of these were satisfactory, 19 were unsatisfactory. These figures include a total of 33 samples which were taken from the "fill and empty" pool, of which 19 were satisfactory and 14 were unsatisfactory. In this case it was found quite quickly that for a pool of that size it was practically impossible to maintain the water in a bacteriologically satisfactory condition by hand chlorination, and this, coupled with the lack of filtration, meant that the water rapidly lost its attractive physical appearance and became cloudy and opaque. In order that the school could complete its swimming programme it was agreed to allow use of the pool to continue, under close supervision by the County Health Inspector. In this period of three weeks, the bath was emptied and cleansed after each five days of usage, and hand chlorination was carried out under supervision. Even so, of 27 samples collected during this period, nine were unsatisfactory. This, of course, confirmed the Department's opinion from the start that it is imperative that a pool of this size should have a reliable automatic filtration and chlorination plant, and the Education Department was asked to instal this equipment in time for the 1961 season.

It was always found that an unsatisfactory bacteriological report coincided with a negative or a low residual chlorine reading although it did happen on several occasions that an unsatisfactory bacteriological result was obtained when the residual chlorine reading was as high as 0.4 p.p.m. The reason for this is that in practice a heavy bathing load can quickly reduce the residual chlorine, and if satisfactory bacteriological condition of the water is to be maintained throughout the pool it is necessary to have a sufficient reserve of free chlorine. Accordingly, we are now using a recommended residual chlorine figure of 0.5 to 0.8 p.p.m., and so far this has proved satisfactory.

The need for having a suitably trained person with time to devote to ensure that the filtration and chlorination plant is properly maintained and working satisfactorily and to take regular readings of the residual chlorine in the pool water cannot be over-emphasised. This is illustrated by the fact mentioned earlier in this report that the unsatisfactory bacteriological reports coincided with unsatisfactory residual chlorine readings.

### **3. WATER SUPPLIES, SEWERAGE AND SEWAGE DISPOSAL**

During 1962, work on many schemes, particularly of sewerage and sewage disposal, continued throughout the county, and many other schemes were in the various stages of preparation and consideration.

#### **Regrouping of Water Undertakings**

One further step in this re-organisation was completed during 1962. On 1st March, 1962, the Stockport and District Water Board Order, 1962, came into operation, and by virtue of this the Board was constituted on 8th March, 1962, and the various water undertakings were transferred to it as from 1st April, 1962. The Board's limits of supply comprise Stockport County Borough, the Urban Districts of Alderley Edge, Bredbury and Romiley, Cheadle and Gatley, Hazel Grove and Bramhall, Marple and Wilmslow, in Cheshire, the Urban Districts of New Mills and Whaley Bridge in Derbyshire, and the Rural District of Disley in Cheshire. All the local authorities, also the Cheshire County Council, are represented on the new Board, and it is felt that this is a most satisfactory outcome to the negotiations which had been in progress since early in 1960.

Thus at the end of 1962, the number of different water undertakings supplying the county area had been reduced to twelve, namely the Ashton-under-Lyne, Stalybridge and Dukinfield (District) Waterworks Joint Committee, the Chester Waterworks Company, the Hoylake Urban District Council, the Macclesfield District Water Board, Manchester Corporation, Mid and South-East Cheshire Water Board, Neston Urban District Council, Runcorn District Water Board, Stockport and District Water Board, Warrington Corporation, West Cheshire Water Board and The Wrexham and East Denbighshire Water Company.

At the end of the year negotiations were still proceeding regarding the amalgamation of the Water Undertakings on the Wirral peninsula, i.e. the West Cheshire Water Board, the County Borough Councils of Birkenhead and Wallasey, and the Urban District Councils of Hoylake and Neston, and it was thought likely that this amalgamation would come into operation during 1963.

#### **Fluoridation of Water Supplies**

It has been known for many years that children born and brought up in areas with about 1 p.p.m. of fluoride in their drinking water supplies have 50 to 60% less dental decay than those brought up in areas where the water contains only traces of fluoride.

Between 1955 and 1961 the Ministry of Health carried out controlled experiments in England, Wales and Scotland. In three areas,

fluoride at a concentration of 1 p.p.m. was added to the water supplies for a five-year period, and three other areas, each having the same or similar water supply to one of the first three areas were used as controls, no fluoride being added to these waters. Very careful annual examinations were made of the teeth of certain children in each of the areas, and at the end of the experiment, the results were collated and examined by the Ministry of Health, and a Report was published in July, 1962. This concluded that:—

- (a) among those children who had had the benefit of fluoridation all their lives, the average number of teeth affected by decay was cut by more than half. Nearly twice as many children as formerly had completely sound teeth;
- (b) no evidence of harm from fluoridation could be found despite the closest watch by all concerned;
- (c) no technical difficulties arose in adding fluoride to water supplies and maintaining it accurately at the specified level.

On 14th December, 1962, the Ministry of Health issued Circular 28/62 on this topic, stating that the Minister was ready to approve, under Section 28 of the National Health Service Act, 1946, local health authorities making arrangements with water undertakings for the addition of fluoride to water supplies which are naturally deficient in it. This meant that a local health authority, which in the case of the administrative county of Cheshire is the County Council, may if it so wishes, meet the cost of fluoridation as expenditure under Section 28 of the Act.

In February 1963, a Report was submitted to the County Health Committee, as a result of which the following resolution was passed, and later adopted by the County Council:—

- (i) "That approval be given, in principle, to fluoridation of water supplies in Cheshire to the extent of 1 p.p.m.
- (ii) That the Cheshire Local Authority Associations and the County District Authorities be informed.
- (iii) That copies of the Report of the County Medical Officer of Health be forwarded to the Honorary Secretaries of the Cheshire Local Authority Associations, and to the Town Clerk or Clerk of each County District Authority.
- (iv) That the several water undertakings supplying the administrative County and other local Health Authorities concerned be informed of the decision".

Further comments will be made upon this subject in future Annual Reports.

## **Financial Assistance to District Authorities**

For the Financial Year ended 31st March, 1962, a total of £51,778 was contributed by the County Council to the County District Councils who qualified for assistance either under Section 56 of the Local Government Act of 1958, or under the Rural Water Supplies and Sewerage Acts, and in the Financial Year ended 31st March 1963, the total was £42,304.

During 1962, four schemes of water supply estimated to cost £8,147, and twelve schemes of sewerage and sewage disposal estimated to cost £2,182,524, were considered by the Department, and brief outlines of these schemes are given below.

### **Water Supplies**

#### **Mid and South East Cheshire Water Board**

Water supply extension scheme in the parish of Horton in the Tarvin Rural District, at an estimated cost of £790. The scheme provides for the laying of 490 yards of 4inch water main from the end of the existing main at Horton Hall to a point opposite a property known as "The Elms", Horton.

Water supply extension scheme in the parish of Duckington in the Tarvin Rural District, at an estimated cost of £3,785. The scheme provides for the laying of 1,915 yards of 4inch main and 663 yards of 2inch pipes from the end of the existing main at Broxton Old Hall to the village of Duckington, to give 14 properties a supply of mains water for the first time.

Water supply extension scheme at Little Green, Shocklach, in the Tarvin Rural District, at an estimated cost of £2,630. The scheme provides for the laying of 1,446 yards of 4inch water main, and 77 yards of 2inch pipes, extending from the end of the existing mains in Shocklach, to give a main water supply for the first time to 18 properties.

Water supply extension scheme in the parish of Oldcastle in the Tarvin Rural District, at an estimated cost of £942. This scheme provides for the laying of 760 yards of 2inch pipes extending from the existing 4inch main near Oldcastle Heath to take a mains supply for the first time to three properties in the area.

### **Sewerage and Sewage Disposal**

#### **Nantwich Rural District Council**

Sewerage scheme for the parish of Stapeley at an estimated cost of £19,661. The scheme provides for the laying of 2,808 yards of sewer varying in diameter from 6 to 12 inches connecting to an existing pumping station opposite the Peacock Inn near Cheneybrook Bridge on the Nantwich-Crewe Road (A534), from which the sewage will be conveyed for treatment at the Wistaston Sewage Disposal Works. The scheme will provide water carriage sewerage facilities for 73 properties.



## **Bebington Municipal Borough Council**

A Sewerage Scheme for the Bromborough area. at an estimated cost of £357,000. This scheme was designed to provide facilities by the laying of sewers varying in diameter from 12 to 57 inches to meet the requirements of industrial and general development both existing and future, and to eliminate flooding and stream pollution in the area.

## **Chester Rural District Council**

Sewerage and Sewage Disposal Scheme for the parish of Elton, at an estimated cost of £57,500. The scheme provides for (a) the laying of gravity sewers in Elton Village and the provision of a disposal works to give main drainage facilities for 96 existing properties, the sewers will have capacity for an ultimate total population of 2,000 and the layout of the disposal works will allow for future extension to meet the estimated additional future flow, estimated cost £40,500; (b) the laying of sewers in Elton Green to provide main drainage facilities for 31 existing properties, and the provision of a pumping station to pass the sewage into the main sewers of the scheme referred to in (a), estimated cost £11,000; (c) the laying of sewers in the area north of Ince Station to provide main drainage for nine existing properties with gravity outfall sewer to the disposal works, estimated cost £4,000; (d) Connections to the curtilages of all properties in the area, estimated cost £2,000.

Sewerage scheme for the parish of Mollington and parts of the parishes of Saughall and Lea-by-Backford, at an estimated cost of £126,000. The scheme provides for the laying of approximately  $7\frac{1}{4}$  miles of sewer varying in diameter from 6 to 18 inches, and will provide facilities for about 240 properties and future development in the area concerned. The flow will drain by gravity and be conveyed by an outfall sewer and discharge into an outfall sewer of Chester Corporation near Finchett's Gutter on the Parkgate Road, thence to the Corporation's Disposal Works for treatment.

## **Macclesfield Rural District Council**

Sewerage scheme for the village of Langley in the parish of Sutton, at an estimated cost of £31,651. The scheme provides for the laying of sewers to give main drainage facilities to 182 existing properties and future development, with discharge into the sewers of the Macclesfield Corporation for treatment at the Borough Sewage Works. The recent provision of mains water supply to the village has now made it essential to provide main drainage to replace existing pail closets, privies, septic tanks, etc.

(This scheme replaces an earlier scheme approved by the County Council in 1954 at an estimated cost of £24,533).

## **Northwich Rural District Council**

Extension of Acton Sewerage Scheme at an estimated cost of £4,040. The scheme provides for the provision of sewers and pumping station to give main drainage facilities for eight existing properties, eight properties in the course of erection and eight future properties in the Acton Lane and Strawberry Lane area of Acton.

(This proposed extension will connect up to the main sewerage scheme for the parish of Acton, which was approved by the County Council in 1960 at a cost of £31,113, and work upon which is now in progress).

Sewerage and sewage disposal scheme for the parish of Little Budworth, at an estimated cost of £15,922. The scheme provides for the laying of new sewers to connect existing sewers to the site of a new disposal works and the replacement of the existing treatment tank, which discharges into Budworth Pool, by a new disposal works. The present system of treatment of sewage is totally inadequate and unsatisfactory. The new treatment and disposal works will provide facilities for 46 existing properties and a certain amount of infilling development which is likely to take place, and for farm drainage from five farms in the area.

Sewerage and sewage disposal extension scheme for the parish of Sproston, at an estimated cost of £5,900. An existing small dilapidated sewage works at Sproston serves ten Council Houses. It is proposed to extend the sewer from these houses to serve a further 16 properties at Sproston Green, the sewage from which is mainly discharged untreated into the River Croco via an old sewer which is in very poor condition. New sewage works will be provided on the same site to serve the 26 properties (including one farm) together with an allowance for eight further properties for infilling.

## **Knutsford Urban District Council**

Reconstruction and extension of sewage disposal works at Birkin Brook, Mobberley, at an estimated cost of £118,550. This proposal is Phase III and the final stage of a comprehensive sewerage and sewage disposal scheme of the U.D.C. commenced two/three years ago. The County Council have previously approved Phases I and II (sewerage) at £49,000 and £31,900 respectively.

The existing disposal works are already working to capacity and are in need of repair and modernisation, and extensions are necessary to provide facilities for the additional flow which is already reaching the works and the further increase in flow which will result following the completion of Phases I and II and future development in the drainage area.

## **Wirral Urban District Council**

Sewerage and sewage disposal scheme for Gayton at an estimated cost of £142,800. The scheme provides for the duplication of the existing sewers in Gayton to relieve the existing system which is overloaded and to provide for future development, and the replacement of the existing disposal works by a new full treatment disposal works. The existing works are in a poor state of repair and are totally inadequate even for the present flow.

In 1961, the Urban District Council submitted a similar scheme estimated to cost £90,000, which, however, made provision for partial treatment works only, and the County Council did not consider this to be satisfactory. The revised scheme provides for full treatment works and the increased cost also takes into account the probability of having to excavate in rock for the laying of the sewers which was not allowed for in the earlier estimate.

## **Ellesmere Port Municipal Borough Council**

The Borough Council reported further on their proposals for dealing with the sewerage of the Borough (see previous Annual Reports). In particular, certain difficulties had been encountered as a result of which it had been decided to construct a completely new disposal works on a site at Stoak instead of extending the existing Little Stanney works as originally proposed. Certain other amendments found to be desirable, as well as amendments made necessary by the change in the siting of the works have also been made to the scheme originally submitted, but the estimated cost of the main scheme as now proposed remains at £1,246,000 *i.e.* the same figure as was given in 1961.

## **Congleton Rural District Council**

Proposed sewerage scheme for Rode Heath and Thurlwood in the Parish of Odd Rode and the construction of a combined sewage treatment works for Rode Heath, Thurlwood and Lawton Gate at an estimated cost of £57,000. The scheme provides for the laying of approximately one and a half miles of sewer varying in diameter from 6 to 15 inches and 336 yards of 7inch rising main, the provision of a pumping station to lift the flow from the Thurlwood area into the new sewer in Rode Heath—flow thence by gravity to the site of the existing works in Lawton Heath where a new works will be constructed to treat the flow from Lawton Gate, which is already sewered, as well as that via the new sewers from Thurlwood and Rode Heath. The scheme will enable a main drainage system to be introduced in place of the present unsatisfactory arrangements of pail closets, other forms of the conservancy system, septic tanks and direct drainage into the River Wheelock and the canal. This scheme was approved subject to the Rural District Council being asked to

- (i) ensure that provision for staff washing and toilet facilities is included at the new disposal works;
- (ii) consider the desirability of including, within the scope of the proposed scheme, the six houses and one farm which are situate near to the northern end of the proposed sewer in Thurlwood;
- (iii) consider the desirability of providing sewerage facilities for the group of 13 houses known as Low Street, Thurlwood, which are situate on the far side of the canal.

### **Ministry of Housing and Local Government Inquiries and Investigations**

During the year, Inspectors of the Ministry held Inquiries or investigations into the following schemes, and on each occasion the Department was represented by the County Health Inspector.

January 17th—Macclesfield R.D.C.—Langley Sewerage Scheme (and Borough Sewerage Scheme connected with the same).

February 13th—Tarvin R.D.C.—Kelsall Sewerage and Sewage Disposal Scheme.

February 13th—Northwich R.D.C.—Delamere Sewerage Scheme.

February 14th—Northwich R.D.C.—Comberbach Sewerage and Sewage Disposal Scheme.

March 28th—Bebington M.B.C.—Bromborough Sewerage Scheme.

July 11th—Ellesmere Port M.B.C.—Sewerage and Sewage Disposal, comprehensive proposals.

August 2nd—Wirral U.D.C.—Gayton Sewerage and Sewage Disposal Scheme.

#### 4. LIAISON WITH COUNTY PLANNING DEPARTMENT

An arrangement is in operation whereby applications for approval of development under Planning Legislation where the proposals have a public health significance and upon which the Planning Officer would like a public health opinion at County level, are submitted to the Department for consideration and comment.

During the year 1962, seventeen such applications were dealt with as follows, and in each case full consideration of all aspects took place, and the Department's opinion given for the assistance of the Planning Officer:—

Construction of new Sewage Disposal Works	.....	.....	3
New sewage disposal works, and ejector stations	.....	.....	1
House, workshop, offices, pumping stations and sewage disposal works	.....	.....	1
Extension of Sewage Disposal Works	.....	.....	1
Extension of Sewage Ejector Station	.....	.....	1
Provision of new slaughter-house	.....	.....	1
Improvements to slaughter-house so as to comply with the Slaughterhouses Act, 1958, and Regulations made thereunder	.....	.....	1
Tipping areas for household refuse	.....	.....	4
Tipping of industrial waste on depressed agricultural land			1
Filling up of ponds with industrial waste	.....	.....	2
Extensions to schools, including new sanitary accommodation and sewage disposal plant	.....	.....	1

## **LIAISON WITH COUNTY SURVEYOR'S DEPARTMENT**

For some years the County Council have allowed the discharge of sewage effluents into their road surface water drains subject to a number of conditions and safeguards.

All applications received by the County Surveyor for permission to make such connections are referred to this Department as well as to the County District Councils (in the case of private development) and to the appropriate River Board.

The Department considers each case on its merits, particularly with regard to the type of treatment to be installed and the ultimate outfall of the surface water drain, and also as to whether any other means of disposal are available.

The County Surveyor is then advised as to whether it is considered that the connection should be allowed. In many cases it is recommended that connections should only be allowed if certain conditions are complied with, and in this connection care is taken to see that the treatment plant is adequate both in design and in size to ensure that an effluent of reasonable purity can be discharged to the County Council's drain and thence to the watercourse. In all cases an adequate form of secondary treatment of the septic tank effluent is insisted upon.

If the connection is allowed, a tripartite agreement is entered into to protect the County Council's position, and the District Council is responsible for seeing that the means of treatment provided are properly constructed, and for making inspections at six-monthly intervals to ensure satisfactory maintenance and efficient working.

During 1962, a total of eleven applications were dealt with.

## 6. ATMOSPHERIC POLLUTION

### Smoke Control Areas

In the Annual Report for the year 1960, a table was given of extracts from a Summary prepared by the Ministry of Housing and Local Government, showing the Smoke Control Area programmes of the local authorities in Cheshire which fall into the "black area" category, and information was also given regarding the work of other Cheshire Local Authorities in this direction.

In Circular No. 4/62 issued in January, 1962, the Minister asked black area authorities to consider whether the target dates originally set for completing the programmes could be brought forward, and to prepare programmes for establishing smoke control areas in the five year period 1962-1966.

In December 1962, the Minister published in Cmnd. 1890 a summary of the programmes submitted as a result of this request, and extracts from this publication are given below, showing the revised programmes of the Cheshire local authorities situated in the South Lancashire and North East Cheshire, and the Merseyside black areas.

It is interesting, and pleasing, to note that though 54 local authorities in England included in the provisional list of black areas, had not, by 1st July, 1962, responded to the Minister's invitations to submit programmes, no Cheshire authority in the Black Areas had failed to submit a programme.

### The National Survey of Air Pollution

The Warren Spring Laboratory of the Department of Scientific and Industrial Research has undertaken the organisation of a National Survey of Air Pollution. The purpose of this Survey is to provide evidence about the distribution of air pollution, in the form of smoke and sulphur dioxide, throughout the country, partly so that the effectiveness of the Clean Air Act can be judged partly for correlation with health indices and partly to discover the distances over which pollution from a given source such as a large scity can be detected.

In the first stage of the scheme towns of 5,000 population and upwards were selected statistically, and 120 such towns are now taking part in the Survey and making daily measurements of smoke and sulphur dioxide in the various types of district in each town.

The question of the amount of pollution in smaller towns, villages and open country is now being dealt with. The Medical Research Council particularly asked that small towns and villages should be studied, and it is necessary also to have observations made at a number of sites in open country to give background information.

In July 1962, the Warren Spring Laboratory asked the County Council whether it would be willing to collaborate in this work by providing financial help (under the terms of Section 56 (i) of the Local Government Act, 1958) so that two instruments could be operated in the county, one in a compact small town or village well away from any large town, and one on an isolated site. In effect this help would be by way of financing the district councils concerned in providing the instruments. The County Council agreed to reimburse the cost of providing instruments at two such sites, each designed to make daily measurements of smoke and sulphur dioxide, and early in 1963 the County Health Inspector was considering suitable locations for the instruments in co-operation with the staff of the Warren Spring Laboratory.



In July 1962, the Warren Spring Laboratory asked the County Council whether it would be willing to collaborate in this work by providing financial help (under the terms of Section 10(1) of the Local Government Act, 1958) so that two instruments could be operated in the county, one in a compact small town or village well away from any large town, and one on an isolated site. In effect this help would be by way of financing the district councils concerned in providing the instruments. The County Council agreed to reimburse the cost of providing instruments at two such sites, each designed to make daily measurements of smoke and sulphur dioxide, and early in 1963 the County Health Inspector was considering suitable locations for the instruments in co-operation with the staff of the Warren Spring Laboratory.

6091-201 (over)

In December 1962, the Ministry published a Circular, C. 100, which set out the Government's policy on air pollution. This was a landmark document in that it was the first time that the Government had set out its policy on air pollution in a formal document. The Circular was published in the context of a growing concern about air pollution in the United Kingdom, particularly in the London area. The Circular set out the Government's commitment to take action to reduce air pollution and to improve the quality of the air that we breathe.

The Circular also set out the Government's plans to establish a new department, the Department of the Environment, which would be responsible for dealing with air pollution, as well as other environmental issues. The Circular was a significant step in the development of air pollution control in the United Kingdom, and it laid the foundation for the National Survey of Air Pollution.

### The National Survey of Air Pollution

The Warren Spring Laboratory of the Department of Scientific and Industrial Research has undertaken the operation of a National Survey of Air Pollution. The purpose of the Survey is to provide information on the distribution of air pollution in the United Kingdom, and to provide a basis for the development of air pollution control measures. The Survey is a major project, and it involves the operation of a large number of instruments in a wide range of locations throughout the country. The Survey is a key part of the Government's efforts to reduce air pollution and to improve the quality of the air that we breathe.

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Final Objective  
 (i.e. total amount  
 available for investment)

Final Objective (i.e. total amount available for investment)	Final Objective (i.e. total amount available for investment)		Final Objective (i.e. total amount available for investment)	
	(a)	(b)	(c)	(d)
A. South Lancs. and N.H. Cheshire Black Area	1,174	1,174	1,174	1,174
	1,078	1,078	1,078	1,078
	5,074	5,074	5,074	5,074
	1,431	1,431	1,431	1,431
	918	918	918	918
	2,123	2,123	2,123	2,123
	2,123	2,123	2,123	2,123
B. Health objectives Area	1,041	1,041	1,041	1,041
	1,128	1,128	1,128	1,128
	1,422	1,422	1,422	1,422

Extracts from Summary prepared by Ministry of Housing and Local Government

(a)—Number of premises. (b)—Number of dwellings. (c)—Acreage of land in smoke control areas.

Local Authority	Approx. No. of premises in L.A. area	Acreage of L.A. area	Covered by Orders made up to 31/12/61			Estimated position at 31/12/66			Final Objective (i.e. total ultimately to be covered)			Target year for completion
			(a)	(b)	(c)	(a)	(b)	(c)	(a)	(b)	(c)	
<b>A. South Lancs. and N.E. Cheshire Black Area</b>												
Altrincham M.B.	15,600	3,477	274	212	44	2,737	2,313	450	15,600	15,400	3,519	Not stated 1980 1976 1970 1975 1970 1966
Dukinfield M.B.	7,400	1,725	5	4	48	1,416	1,354	1,174	7,400	6,090	1,725	
Hyde M.B.	13,524	4,170	2,271	2,242	850	5,612	5,470	3,078	16,290	13,980	4,170	
Sale M.B.	18,299	3,629	5,855	5,812	1,308	11,830	11,277	2,674	18,299	16,618	3,628	
Stalybridge M.B.	9,566	3,190	1,034	1,011	255	4,464	4,051	1,431	8,783	8,148	3,030	
Bredbury & Romiley U.D.	8,600	4,290	1,237	1,230	426	4,327	4,319	934	Not stated			
Cheadle & Gatley U.D.	16,369	5,299	2,044	2,022	807	16,369	15,803	5,285	16,369	15,803	5,285	
<b>B. Merseyside Black Area</b>												
Bebington M.B.	18,410	12,234	410	400	74	6,844	6,638	1,041	20,000	19,000	12,244	1976
Ellesmere Port M.B.	15,121	9,144	3,357	3,330	680	6,299	6,192	1,135	13,248	12,081	3,724	1977
Runcorn U.D.	8,500	3,127	1,388	1,381	327	6,106	6,033	1,455	8,500	8,214	3,116	1970

# Appendix of Statistics

1962

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## TABLE A

Deaths by Causes.—Sex—  
■ Each County District.

## TABLE B

Deaths by Causes.—Sex; Age—  
■ Urban Districts, Rural Districts,

## TABLE C

Statistical Summary of enumerated and estimated population, area, births and deaths, birth rate and death rate, deaths of infants, infantile mortality, deaths from each of principal zymotic diseases, corresponding zymotic death rate, for each County District.

# Appendix of Statistics

1902

## TABLE A

Deaths by Cause—Sex—  
Each County District

## TABLE B

Deaths by Cause—Sex; Age—  
Urban Districts, Rural Districts

## TABLE C

Statistical Summary of enumerated and estimated population,  
area, births and deaths, birth rate and death rate, deaths  
of infants, infantile mortality, deaths from each of principal  
zymotic diseases, corresponding zymotic death rate, for  
each County District

TABLE A (Urban i).

CAUSES OF DEATH.	Alderley Edge U.D.		Alsager U.D.		Altrincham M.B.		Bebington M.B.		Bollington U.D.		Bowdon U.D.		Bredbury and Romiley U.D.		Cheadle and Gatley U.D.		Congleton M.B.		Crewe M.B.		Dukinfield M.B.		Ellesmere Port M.B.		Hale U.D.		Hazel Grove and Bramhall U.D.		Hoylake U.D.		Hyde M.B.			
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.		
ALL CAUSES — —	33	26	29	38	276	201	295	346	32	53	22	42	134	119	215	293	95	119	348	317	135	136	208	145	96	104	140	161	194	239	220	225		
1 Tuberculosis, Respiratory	—	—	1	—	—	—	1	1	—	—	—	—	1	—	1	—	2	1	5	—	2	—	—	1	—	—	1	—	1	1	1	—		
2 Tuberculosis, Other —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
3 Syphilitic Disease —	—	—	—	—	1	1	—	1	—	—	—	—	1	1	2	—	—	—	—	1	1	—	2	—	—	—	1	—	—	—	—	1	—	
4 Diphtheria — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
5 Whooping Cough —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
6 Meningococcal Infections	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—
7 Acute Poliomyelitis —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
8 Measles — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9 Other Infective and Parasitic Diseases	—	—	—	—	—	—	1	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	2	—	2	—	1	—	—	—	
10 Malignant Neoplasm, Stomach	—	1	2	1	9	2	6	11	—	2	—	—	5	4	6	6	1	3	15	10	4	3	5	5	2	2	1	5	3	4	6	8		
11 Malignant Neoplasm, Lung Bronchus	2	1	3	—	18	3	21	3	1	1	1	—	5	—	14	2	6	1	23	3	11	4	20	2	5	1	10	1	11	2	9	2		
12 Malignant Neoplasm, Breast	—	—	—	—	4	—	4	—	1	—	—	—	3	—	12	—	5	—	11	—	3	—	1	—	6	—	12	—	8	—	—	6		
13 Malignant Neoplasm, Uterus	—	—	—	—	—	—	10	—	1	—	—	—	1	—	4	—	3	—	9	—	1	—	—	—	1	—	4	—	4	—	3	—		
14 Other Malignant and Lymphatic Neoplasms	3	—	—	4	24	16	30	26	4	3	4	3	13	13	17	20	8	11	20	23	12	8	32	17	7	5	11	12	19	17	16	23		
15 Leukaemia, Aleukaemia	—	—	—	—	1	1	—	—	—	—	1	—	1	—	1	1	1	—	1	—	—	—	1	—	—	—	3	—	—	—	—	1		
16 Diabetes — —	—	1	1	1	3	2	5	4	—	—	—	—	1	—	3	—	—	4	7	1	—	1	1	2	1	—	—	2	1	1	5			
17 Vascular Lesions of Nervous System	4	3	4	9	39	46	31	66	7	14	3	11	16	28	25	51	16	33	38	58	17	26	23	17	12	24	12	30	24	44	35	39		
18 Coronary Disease, Angina	12	5	5	2	61	34	92	58	4	9	2	8	32	20	58	53	20	20	73	34	23	14	45	29	21	17	33	29	56	40	43	33		
19 Hypertension with Heart Disease	1	1	1	1	7	3	3	8	1	2	—	1	3	—	5	7	—	1	10	6	2	1	2	3	1	2	3	1	2	5	3	2		
20 Other Heart Disease—	2	2	3	6	29	35	20	34	2	3	3	5	10	14	18	46	4	13	35	45	19	24	10	17	18	19	7	18	16	30	32	29		
21 Other Circulatory Disease	1	2	3	5	11	9	6	16	2	—	2	3	5	6	11	20	5	7	13	11	8	11	3	4	3	7	5	10	7	24	7	9		
22 Influenza — —	1	—	—	1	2	—	1	2	—	1	—	—	1	—	1	3	—	1	—	3	1	1	—	1	—	1	2	1	2	—	4	2		
23 Pneumonia — —	—	2	1	—	12	5	23	42	2	8	—	2	7	3	9	16	4	4	14	18	7	8	20	17	5	—	4	3	14	26	12	11		
24 Bronchitis — —	3	2	6	—	30	7	22	11	3	3	3	1	15	4	13	11	7	4	30	5	8	12	13	6	7	1	12	6	9	6	16	13		
25 Other Diseases of Respiratory System	—	—	—	1	2	2	2	2	—	1	—	—	1	1	—	2	1	—	4	—	1	—	1	—	1	—	4	1	1	—	1	—		
26 Ulcer of Stomach and Duodenum	—	—	—	—	1	2	3	1	1	—	1	—	2	—	1	1	1	—	6	—	2	—	—	1	3	—	2	1	1	1	3	—		
27 Gastritis, Enteritis and Diarrhoea	—	—	—	2	—	4	1	2	—	—	—	—	2	—	2	—	—	—	4	5	—	—	1	1	—	—	1	—	—	1	—	—		
28 Nephritis and Nephrosis	—	1	—	1	1	1	5	5	—	—	—	—	1	—	1	—	1	1	2	1	1	2	—	—	—	1	1	3	2	1	1	1		
29 Hyperplasia of Prostate	—	—	1	—	—	—	—	—	2	—	—	—	1	—	4	—	1	—	2	—	—	—	—	—	—	—	1	—	4	—	1	—		
30 Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	1	—	1	—	1		
31 Congenital Malformations	1	1	—	—	2	—	1	3	—	—	2	—	—	4	1	2	2	2	4	2	1	—	4	2	1	1	5	1	2	2	1	3		
32 Other Defined and Ill-defined Diseases	1	4	3	4	15	19	11	24	1	2	1	3	7	11	17	25	8	6	25	58	7	10	16	17	5	11	15	17	16	13	13	32		
33 Motor Vehicle Accidents	1	—	2	—	3	1	4	3	1	—	—	—	2	1	4	3	—	—	6	1	—	2	2	—	2	—	2	—	2	2	3	—		
34 All Other Accidents—	—	—	1	—	3	1	3	5	—	2	—	3	2	2	1	3	2	1	11	4	4	5	5	2	1	1	2	2	—	5	2			
35 Suicide — —	1	—	1	—	3	3	1	4	1	—	—	1	2	—	3	2	5	2	3	1	3	1	2	—	—	1	2	1	—	3	5	—		
36 Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
LIVE BIRTHS—Total	31	32	79	83	368	345	441	417	50	42	25	42	201	173	561	487	145	138	489	469	145	130	569	530	134	124	285	247	274	270	298	247		
Legitimate	27	32	76	80	355	366	426	403	48	42	24	40	190	168	544	473	141	133	447	439	141	121	546	503	130	118	283	241	235	261	274	224		
Illegitimate	4	—	3	3	13	9	15	14	2	—	1	2	11	5	17	14	4	5	42	30	4	9	23	27	4	6	2	6	12	9	24	23		
STILLBIRTHS—Total	—	—	—	—	8	4	10	7	—	2	1	—	9	4	9	7	2	2	9	6	3	2	7	8	3	2	2	3	3	1	4	3		
Legitimate	—	—	—	—	7	4	9	7	—	2	1	—	9	4	9	6	1	2	7	6	3	1	7	8	3	1	2	3	3	1	4	2		
Illegitimate	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	
Deaths of Infants under one year of age	1	2	1	2	5	3	7	9	—	2	1	1	5	5	11	6	3	1	15	15	5	—	17	13	1	1	6	3	5	5	8	5		
Legitimate	1	2	1	2	5	3	7	9	—	2	1	1	4	4	11	5	3	1	15	14	5	—	17	13	1	1	6	3	5	4	6	5		
Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	1	1	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	1	2	—		
Deaths of Infants under 4 weeks of age	1	2	1	—	3	2	3	7	—	—	1	1	3	1	9	4	3	1	4	5	2	—	8	9	1									

TABLES OF DEATHS IN ALABAMA FOR THE YEAR 1922

Cause of Death	1922		1921		1920		1919	
	No.	Rate	No.	Rate	No.	Rate	No.	Rate
Heart Disease	12	12.5	11	11.5	10	10.5	9	9.5
Stroke	8	8.5	7	7.5	6	6.5	5	5.5
Other Circulatory Disease	5	5.5	4	4.5	3	3.5	2	2.5
Other Heart Disease	3	3.5	2	2.5	1	1.5	1	1.5
Hypertension with Heart Disease	4	4.5	3	3.5	2	2.5	1	1.5
Coronary Disease	12	12.5	11	11.5	10	10.5	9	9.5
Arteriosclerosis of Nervous System	4	4.5	3	3.5	2	2.5	1	1.5
Other Diseases of Ocular Muscles	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Eye	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Ear, Nose and Throat	3	3.5	2	2.5	1	1.5	1	1.5
Other Diseases of Mouth	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Skin	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Genitalia	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Urinary System	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Digestive System	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Respiratory System	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Larynx and Pharynx	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Trachea and Bronchi	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Lungs	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Pleura	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Pericardium	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Peritoneum	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Intestines	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Stomach	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Liver	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Gallbladder	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Pancreas	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Spleen	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Adipose Tissue	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Connective Tissue	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Bones	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Joints	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Muscles	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Nerves	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Brain	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Spinal Cord	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Eye, Ear, Nose and Throat	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Mouth	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Skin	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Genitalia	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Urinary System	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Digestive System	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Respiratory System	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Larynx and Pharynx	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Trachea and Bronchi	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Lungs	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Pleura	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Pericardium	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Peritoneum	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Intestines	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Stomach	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Liver	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Gallbladder	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Pancreas	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Spleen	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Adipose Tissue	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Connective Tissue	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Bones	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Joints	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Muscles	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Nerves	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Brain	1	1.5	1	1.5	1	1.5	1	1.5
Other Diseases of Spinal Cord	1	1.5	1	1.5	1	1.5	1	1.5

TABLE A—(Urban ii).

CAUSES OF DEATH.	Knutsford U.D.		Longden- dale U.D.		Lymm U.D.		Maccles- field M.B.		Marple U.D.		Middle- wich U.D.		Nantwich U.D.		Neston U.D.		Northwich U.D.		Runcorn U.D.		Sale M.B.		Sandbach U.D.		Staly- bridge M.B.		Wilmslow U.D.		Winsford U.D.		Wirral U.D.		
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
ALL CAUSES — —	117	134	41	32	48	49	286	279	97	116	48	32	85	85	71	81	130	121	159	126	313	304	57	48	160	172	110	102	84	70	114	126	
1 Tuberculosis, Respiratory	—	—	—	—	—	—	4	1	—	—	—	—	1	—	1	—	—	—	—	—	—	—	—	1	—	1	1	2	—	2	—	—	
2 Tuberculosis, Other	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—
3 Syphilitic Disease	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	2
4 Diphtheria	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5 Whooping Cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—
6 Meningococcal Infections	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—
7 Acute Poliomyelitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—
8 Measles	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9 Other Infective and Parasitic Diseases	—	—	—	—	—	—	—	—	—	—	—	—	1	1	1	—	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—
10 Malignant Neoplasm, Stomach	5	3	3	—	—	1	12	7	—	2	—	—	—	1	2	1	4	5	4	4	6	8	2	—	4	1	2	4	3	—	7	3	
11 Malignant Neoplasm, Lung Bronchus	2	1	1	—	4	—	17	—	2	3	5	—	6	1	8	—	6	1	11	—	20	7	2	—	11	1	5	2	2	—	9	4	
12 Malignant Neoplasm, Breast	—	2	—	2	—	—	13	—	5	—	1	—	2	—	2	—	6	—	5	1	10	—	3	—	6	—	3	—	1	—	4	—	
13 Malignant Neoplasm, Uterus	—	—	—	1	—	1	—	5	—	2	—	—	—	—	1	—	5	—	2	—	6	—	—	—	2	—	1	—	1	—	—	—	
14 Other Malignant and Lymphatic Neoplasms	9	8	2	4	3	4	20	17	10	8	2	4	6	5	5	11	9	9	15	15	25	21	4	5	11	17	11	10	4	5	9	9	
15 Leukaemia, Aluekaemia	1	2	—	—	—	—	1	—	1	1	—	1	1	1	—	—	1	—	1	1	2	2	—	—	—	1	1	1	—	1	1	—	
16 Diabetes	—	2	—	1	—	—	3	—	2	—	—	—	3	—	1	1	1	1	1	1	2	2	1	2	1	2	—	—	—	1	1	—	
17 Vascular Lesions of Nervous System	28	40	9	4	7	13	35	42	15	27	6	3	12	18	8	19	12	30	16	17	30	34	6	8	32	26	11	20	15	10	9	23	
18 Coronary Disease, Angina	19	13	9	7	13	7	67	36	23	13	7	7	11	10	22	18	23	12	38	16	71	39	16	7	32	16	25	15	13	13	26	29	
19 Hypertension with Heart Disease	1	1	—	1	—	3	3	8	2	1	—	—	—	1	1	2	3	1	3	4	4	7	—	—	—	4	1	—	2	1	—	5	
20 Other Heart Disease	16	26	9	3	1	6	32	58	5	9	7	5	10	12	3	8	23	23	10	21	39	44	4	7	15	31	7	9	12	14	9	22	
21 Other Circulatory Disease	2	4	2	1	1	—	11	14	10	4	1	—	3	1	3	3	8	4	8	10	14	26	4	—	6	12	10	7	1	1	3	3	
22 Influenza	—	2	—	—	—	—	—	3	1	—	—	1	—	1	—	1	—	1	—	2	7	6	2	1	2	—	—	—	—	—	—	—	
23 Pneumonia	—	2	4	—	2	2	13	32	5	9	4	—	6	9	1	5	7	5	11	7	14	14	2	—	6	5	3	10	7	2	8	10	
24 Bronchitis	14	3	3	1	3	—	10	4	10	6	6	2	9	3	5	2	11	2	18	3	25	8	5	3	18	15	8	2	6	2	9	2	
25 Other Diseases of Respiratory System	—	—	—	1	—	2	9	2	1	—	—	—	—	—	1	2	1	2	1	2	1	2	1	—	1	1	2	1	3	—	—	2	
26 Ulcer of Stomach and Duodenum	—	—	1	—	1	1	6	3	—	2	1	1	—	—	—	—	3	2	—	1	3	2	1	1	1	2	2	—	—	1	—	—	
27 Gastritis, Enteritis and Diarrhoea	—	1	—	—	1	—	2	1	—	1	—	—	—	1	—	—	1	—	—	—	3	1	—	—	2	1	1	—	1	1	1	2	
28 Nephritis and Nephrosis	—	—	—	—	1	1	3	1	—	1	—	—	—	—	2	—	—	1	—	1	3	1	—	—	1	1	—	1	—	2	1	1	
29 Hyperplasia of Prostate	2	—	—	—	1	—	4	—	1	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	3	—	2	—	—	—	—	
30 Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31 Congenital Malformations	1	—	—	—	2	—	3	—	1	—	—	—	3	2	—	—	1	2	1	—	7	6	—	—	—	4	2	2	1	2	3	—	
32 Other Defined and Ill-defined Diseases	10	24	2	2	2	4	21	20	6	18	3	5	13	12	7	7	4	8	14	12	17	23	6	11	12	15	9	7	8	10	9	4	
33 Motor Vehicle Accidents	—	—	—	2	1	—	2	1	3	—	1	—	1	—	—	—	2	—	2	1	5	4	—	—	1	2	1	1	—	—	4	—	
34 All Other Accidents	1	—	—	—	3	2	6	3	1	3	4	—	—	1	—	—	4	2	2	1	10	3	—	—	2	1	3	5	2	—	1	1	
35 Suicide	—	2	—	—	2	2	5	1	—	1	—	1	—	—	2	—	2	—	2	—	3	6	—	—	2	5	1	1	—	1	2	—	
36 Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LIVE BIRTHS—Total	79	76	36	31	84	70	321	284	154	156	62	48	108	99	123	132	154	136	297	292	491	503	93	83	201	181	220	238	109	101	240	204	
Legitimate	76	73	35	29	82	67	302	268	151	152	60	47	101	96	119	130	144	129	288	278	469	483	92	80	185	174	209	228	103	98	229	198	
Illegitimate	3	3	1	2	2	3	19	16	3	4	2	1	7	3	4	2	10	7	9	14	22	20	1	3	16	7	11	10	6	3	11	6	
STILLBIRTHS—Total	1	1	1	—	3	2	4	6	1	2	2	2	1	5	4	4	4	—	4	9	9	7	3	3	6	10	2	5	4	1	2	3	
Legitimate	1	1	1	—	3	2	4	6	1	2	2	2	1	5	4	4	3	—	4	9	9	6	3	3	5	10	2	5	4	1	2	3	
Illegitimate	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Deaths of Infants (under one year of age)	3	—	—	—	4	—	9	5	1	5	2	—	7	3	2	2	8	4	13	2	21	8	2	1	6	5	4	6	7	2	6	3	
Legitimate	3	—	—	—	4	—	8	5	1	5	2	—	7	3	2	2	7	4	13	1	21	7	2	1	5	5	4	6	7	2	5	3	
Illegitimate	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Deaths of Infants (Under 4 weeks of age)	2	—	—	—	1	—	5	4	—	4	—	—	4	1	2	2	2	3	7	2	10	6	2	1	1	3	2	4	3	1	6	3	



CAUSES OF DEATH. (D.U. D. U.D. how date. D.U. D. U.D. how date. M.B.M.)

All Causes 17 58 317 334 341 332 708 699 2

Tuberculosis, Respiratory  
Tuberculosis, Other

Syphilitic Diseases  
Diphtheria  
Whooping Cough

Meningococcal Infections  
Acute Poliomyelitis  
Measles

Other Infective and Parasitic Diseases  
Malignant Neoplasms  
Stomach  
Malignant Neoplasm  
Lung Bronchus

Malignant Neoplasm, Breast  
Malignant Neoplasm, Uterus  
Other Malignant and Lymphatic Neoplasms  
Leukemia

Diabetes  
Vascular Lesions of Nervous System  
Coronary Disease, Angina

Hypertension with Heart Disease  
Other Heart Disease  
Other Cerebrovascular Disease

Other Diseases of Nervous System  
Epilepsy and Hysteria  
Epilepsy  
Epilepsy

Other Diseases of Nervous System  
Epilepsy and Hysteria  
Epilepsy  
Epilepsy

TABLE A—(Rural).

CAUSES OF DEATH.	Bucklow R.D.		Chester R.D.		Congleton R.D.		Disley R.D.		Macclesfield R.D.		Nantwich R.D.		Northwich R.D.		Runcorn R.D.		Tarvin R.D.		Tintwistle R.D.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
ALL CAUSES — — —	94	76	178	233	122	102	21	21	143	156	185	146	231	198	243	247	106	91	14	13
1 Tuberculosis, Respiratory	1	—	1	—	—	—	—	—	—	—	1	—	2	—	—	1	—	—	—	—
2 Tuberculosis, Other —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3 Syphilitic Disease —	—	—	—	1	—	—	—	—	—	—	—	1	2	—	—	—	—	—	—	—
4 Diphtheria — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5 Whooping Cough —	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
6 Meningococcal Infections	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7 Acute Poliomyelitis —	—	—	—	—	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—
8 Measles — — —	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
9 Other Infective and Parasitic Diseases	—	—	1	3	—	—	—	—	1	—	1	1	—	1	1	—	—	—	—	—
10 Malignant Neoplasm, Stomach	2	1	9	7	3	1	—	—	6	8	2	6	9	3	4	11	4	1	—	—
11 Malignant Neoplasm, Lung Bronchus	5	1	14	—	6	2	4	—	6	—	8	1	11	5	18	3	6	—	—	1
12 Malignant Neoplasm, Breast	—	3	—	6	—	2	—	2	—	10	—	9	—	6	—	8	—	2	—	—
13 Malignant Neoplasm, Uterus	—	4	—	6	—	3	—	—	—	2	—	1	—	—	2	—	1	—	—	—
14 Other Malignant and Lymphatic Neoplasms	6	3	14	8	6	9	—	—	12	13	17	9	29	14	20	20	11	10	—	—
15 Leukaemia, Aleukaemia	—	—	1	—	—	—	—	—	1	2	—	1	1	1	2	—	1	—	—	—
16 Diabetes — — —	—	2	1	—	—	1	—	—	—	3	1	4	—	2	—	1	1	—	—	—
17 Vascular Lesions of Nervous System	12	16	22	42	13	15	2	7	23	21	21	28	24	35	22	38	13	25	3	1
18 Coronary Disease, Angina	23	13	34	31	16	8	6	2	24	24	46	22	38	25	65	50	33	12	5	1
19 Hypertension with Heart Disease	2	3	2	7	2	1	—	—	—	6	6	8	3	5	1	8	3	2	—	—
20 Other Heart Disease—	5	7	20	43	10	8	—	1	19	13	16	22	27	39	29	30	7	10	1	5
21 Other Circulatory Disease	6	6	4	14	5	1	3	5	8	7	2	9	11	14	9	13	3	3	2	—
22 Influenza — — —	2	—	4	2	2	—	—	—	—	3	—	—	4	2	1	3	—	—	—	—
23 Pneumonia — — —	2	7	9	21	4	3	—	1	15	10	10	5	5	12	15	15	5	3	—	—
24 Bronchitis — — —	7	3	10	6	9	2	2	4	6	8	11	4	18	7	19	4	1	3	1	—
25 Other Diseases of Respiratory System	—	—	3	1	—	—	—	—	1	1	—	1	4	1	5	1	—	—	1	—
26 Ulcer of Stomach and Duodenum	1	—	—	1	—	—	—	1	—	—	—	—	2	—	2	2	1	1	—	—
27 Gastritis, Enteritis and Diarrhoea	—	1	1	3	—	1	—	—	—	2	1	—	—	2	1	—	—	—	—	—
28 Nephritis and Nephrosis	—	—	1	2	1	—	—	—	1	1	2	—	3	2	3	2	—	—	—	1
29 Hyperplasia of Prostate	1	—	2	—	1	—	—	—	1	—	5	—	6	—	—	—	1	—	—	—
30 Pregnancy, Childbirth, Abortion	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
31 Congenital Malformations	3	—	1	2	—	—	—	—	2	—	1	1	3	3	2	1	1	3	—	—
32 Other Defined and Ill-defined Diseases	6	5	10	21	38	45	2	—	13	17	23	10	19	11	13	20	7	10	1	2
33 Motor Vehicle Accidents	4	1	2	3	1	—	—	—	2	1	4	—	7	3	4	3	5	1	—	1
34 All Other Accidents—	6	1	8	2	5	1	1	—	—	2	4	3	2	3	4	8	2	1	—	1
35 Suicide — — —	—	—	3	1	—	1	—	—	1	2	1	—	1	2	3	3	1	3	—	—
36 Homicide & Operations of War	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
LIVE BIRTHS—Total —	203	173	297	250	123	115	16	17	195	225	250	219	323	317	394	358	108	122	11	10
Legitimate —	193	168	286	239	119	113	16	17	192	215	239	211	309	299	381	346	106	115	10	10
Illegitimate —	10	5	11	11	4	2	—	—	3	10	11	8	14	18	13	12	2	7	1	—
STILLBIRTHS —Total —	3	2	5	8	1	3	—	2	2	5	1	1	4	10	13	3	4	4	—	—
Legitimate —	3	2	5	8	1	3	—	2	1	5	1	—	3	10	12	3	4	3	—	—
Illegitimate —	—	—	—	—	—	—	—	—	1	—	—	1	1	—	1	—	—	1	—	—
Deaths of Infants (under one year) {	6	2	5	7	2	2	—	—	6	7	8	6	10	9	11	5	2	6	—	2
Total —	6	2	5	7	2	2	—	—	6	7	8	6	10	9	11	5	2	6	—	2
Legitimate —	6	2	5	7	2	1	—	—	6	6	8	5	10	8	11	5	2	6	—	2
Illegitimate —	—	—	—	—	—	1	—	—	—	1	—	1	—	1	—	—	—	—	—	—
Deaths of Infants (under 4 weeks of age) {	5	1	4	4	2	2	—	—	4	6	3	3	9	6	8	4	1	6	—	1
Total —	5	1	4	4	2	2	—	—	4	6	3	3	9	6	8	4	1	6	—	1
Legitimate —	5	1	4	4	2	1	—	—	4	5	3	2	9	5	8	4	1	6	—	1
Illegitimate —	—	—	—	—	—	1	—	—	—	1	—	1	—	1	—	—	—	—	—	—
Deaths of Infants (under 1 week of age) {	4	1	3	3	2	2	—	—	3	6	2	2	6	6	7	4	—	6	—	1
Total —	4	1	3	3	2	2	—	—	3	6	2	2	6	6	7	4	—	6	—	1
Legitimate —	4	1	3	3	2	1	—	—	3	5	2	1	6	5	7	4	—	6	—	1
Illegitimate —	—	—	—	—	—	1	—	—	—	1	—	1	—	1	—	—	—	—	—	—







TABLE C

SANITARY DISTRICTS.	Population at Census, 1961	Estimated Population in middle of 1962.	Area in Acres 1962	Illegitimate Births	Still Births.	Total Live Births.	Live Birth rate per 1000 pop.	Deaths	Death-rate per 1000 pop.	Deaths from				Deaths from Principal Zymotic Diseases	Principal Zymotic Diseases Death-rate	No. of Deaths under one year	Deaths under one year to 1000 Births	No. of Deaths under four weeks	Deaths under four weeks to 1000 Births	No. of Deaths under one week	No. of Deaths under one week to 1000 Births	Medical Officers of Health and Divisional Medical Officers at 31/12/62
										Measles	Diphtheria	Whooping Cough	Gastritis, Enteritis and Diarrhoea									
Column Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
<b>MUNICIPAL BOROUGHES</b>																						
Altrincham	41104	41300	3477	22	12	713	17.3	477	11.5	—	—	—	4	4	.10	8	11	5	7	4	6	Dr. W. H. Parry
Bebington	52202	52980	12234	29	17	858	16.2	641	12.1	—	—	—	3	3	.06	16	19	10	12	9	10	Dr. F. S. Melville
Completon	16802	17020	5387	9	4	283	16.6	214	12.6	—	—	—	—	—	—	4	14	4	14	2	7	Dr. L. Rich
Crows	53394	53580	4386	72	15	958	17.9	665	12.4	—	—	—	9	9	.17	30	31	9	9	8	8	Dr. D. G. Crawshaw
Dukinfield	17318	17410	1725	13	5	275	15.8	271	15.6	—	—	—	—	—	—	5	18	2	7	2	7	Dr. T. Holme
Ellesmere Port	44714	46120	9144	50	15	1099	23.8	353	7.7	—	—	—	2	2	.04	30	27	17	15	14	13	Dr. W. A. Pollitt
Hyde	31710	31960	4170	47	7	545	17.1	445	13.9	—	—	—	—	—	—	13	24	9	17	7	13	Dr. W. R. Plews
Macclesfield	37578	37610	4787	35	10	605	16.1	565	15.0	—	—	—	3	3	.08	14	23	9	15	6	10	Dr. W. R. Plews
Sale	51317	52160	3629	42	16	994	19.1	617	11.8	—	—	—	4	4	.08	29	29	16	16	12	12	Dr. E. H. Gordon
Stalybridge	21940	22140	3190	23	16	352	17.3	332	15.0	—	—	—	3	3	.13	11	29	4	10	2	5	Dr. T. Holme
Total Municipal Boroughs	368079	372280	43185	342	117	6712	18.0	4580	12.3	—	—	—	28	28	.08	160	24	85	13	66	10	
<b>URBAN DISTRICTS</b>																						
Alderley Edge	3618	3670	702	4	—	63	17.2	59	16.1	—	—	—	—	—	—	3	48	3	48	2	32	Dr. J. A. Leitch
Alsager	7800	8310	2241	6	—	162	19.5	76	9.1	—	—	—	2	2	.24	3	19	1	6	1	6	Dr. L. Rich
Bollington	5642	5690	1442	2	2	92	16.2	85	14.9	—	—	—	—	—	—	2	22	—	—	—	—	Dr. W. R. Plews
Bowdon	4478	4440	1090	3	1	67	15.1	64	14.4	—	—	—	—	—	—	2	31	2	30	1	15	Dr. W. H. Parry
Bredbury & Romiley	21613	23020	4290	16	13	374	16.2	253	11.0	—	—	—	2	2	.09	10	27	4	11	3	8	Dr. T. W. Brindle
Cheadle & Gatley	45599	47940	5299	31	16	1048	21.9	508	10.6	—	—	—	2	2	.04	17	16	13	12	12	11	Dr. J. A. Leitch
Hale	14800	15270	2264	10	5	258	16.9	200	13.1	—	—	—	—	—	—	2	8	2	8	2	8	Dr. W. H. Parry
Hazel Grove and Bramhall	29910	30800	5990	8	5	532	17.3	301	9.8	—	—	—	1	1	.03	9	17	9	17	7	13	Dr. T. W. Brindle
Hoylake	32268	32220	5996	21	4	517	16.0	433	13.4	—	—	—	1	1	.03	10	19	7	14	7	14	Dr. J. Hatton
Knutsford	9389	9670	2485	6	2	155	16.0	251	26.0	—	—	—	1	1	.10	3	19	2	13	2	13	Dr. W. H. Parry
Longendale	4639	4710	3545	3	1	67	14.2	73	15.5	—	—	—	—	—	—	—	—	—	—	—	—	Dr. W. Turner
Lymm	7330	7600	4241	5	5	154	20.3	97	12.8	—	—	—	1	1	.13	4	27	1	6	1	6	Dr. E. H. Gordon
Marple	16278	17860	7130	7	3	310	17.4	213	11.9	—	—	—	1	1	.06	6	19	4	13	4	13	Dr. T. W. Brindle
Middlewich	6833	7060	1971	3	4	110	15.6	80	11.3	—	—	—	—	—	—	2	18	—	—	—	—	Dr. F. Seymour
Nantwich	10454	10790	1177	10	6	207	19.2	170	15.8	—	—	—	1	1	.09	10	48	5	24	3	14	Dr. R. K. Hay
Neston	11836	12760	8495	6	8	255	20.0	152	11.9	—	—	—	—	—	—	4	16	4	16	4	16	Dr. J. Hatton
Northwich	19374	19530	2636	17	4	290	14.8	251	12.9	—	—	—	1	1	.05	12	41	5	17	5	17	Dr. F. Seymour
Runcorn	26035	26640	3127	23	13	589	22.1	285	10.7	—	—	—	1	1	.04	15	25	9	15	9	15	Dr. J. L. Patterson
Sandbach	9856	10090	3716	4	6	176	17.4	105	10.4	—	—	—	—	—	—	3	17	3	17	3	17	Dr. L. Rich
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Winsford	12738	12860	7094	9	5	210	16.3	154	12.0	—	—	—	2	2	.16	9	43	4	19	3	14	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. J. A. Leitch
Widmore	21393	22420	7691	21	7	458	20.4	212	9.5	—	—	—	1	1	.04	10	22	6	13	5	11	Dr. F. Seymour
Widmore	21393																					

