[Report 1937] / Medical Officer of Health, Cardiff County Borough & Port.

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Publication/Creation

1937

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City and Port of Cardiff

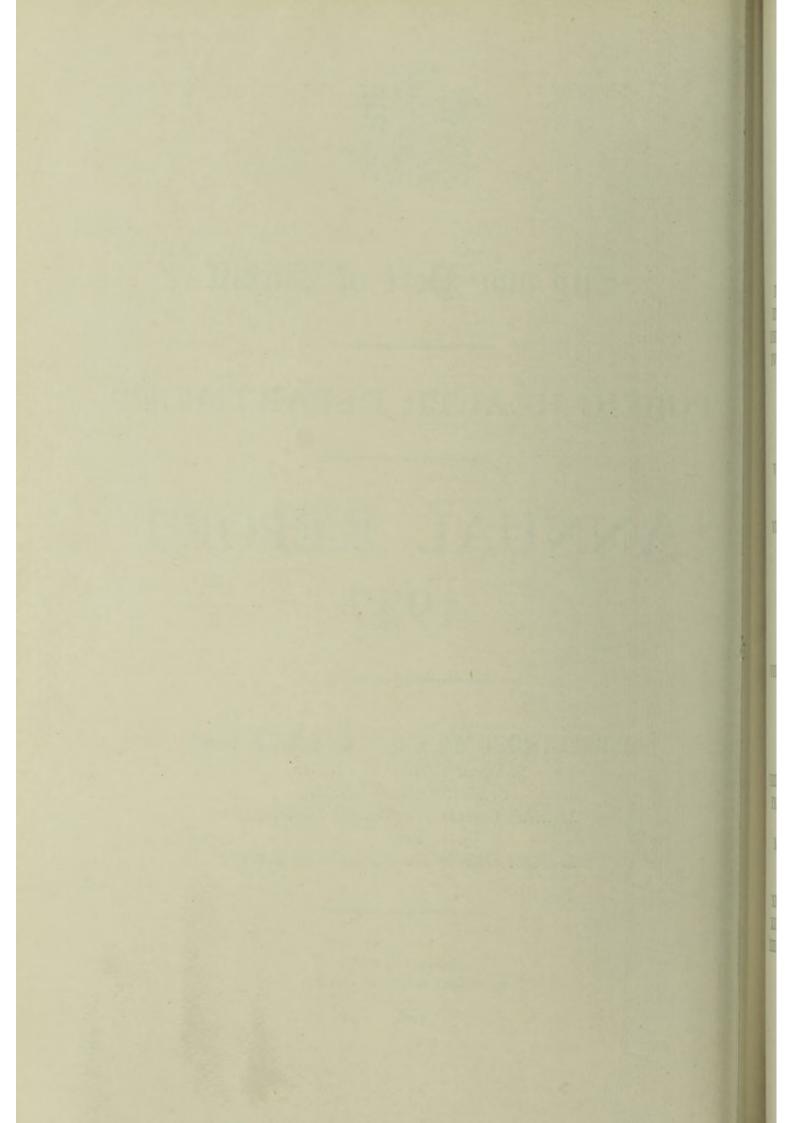
PUBLIC HEALTH DEPARTMENT

ANNUAL REPORT 1937

J. GREENWOOD WILSON, M.D., F.R.C.P. Lond.,

Medical Officer of Health,
School Medical Officer,
Medical Officer for Mental Deficiency
and
Medical Officer for Public Assistance.

ABERGAVENNY: SEARGEANT BROTHERS LIMITED.



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COMMITTEES.

Health Committee.

THE LORD MAYOR (Alderman O. CUTHBERT PURNELL, J.P.*)

Chairman:

Councillor James Griffiths, J.P.*†‡

Deputy Chairman: Councillor W. R. WILLS, *†1

Alderman Sir C. W. Melhuish, J.P.*

Councillor T. J. Mullins†‡

"R. G. Robinson†‡

"H. E. White, J.P.†‡

"A. J. Beecher†‡

"G. L. Ferrier†‡

"F. Chapman*†‡

Councillor A. J. Martin, †‡

"G. E. B. Frewer*

"D. T. Williams†‡

"W. T. Banbury†‡

"E. Allan Robson, J.P.

"J. D. Williams*†‡

"F. Edwards.

Hospitals Sub-Committee.

The Health Committee with the following co-opted members:

Dr. R. Armstrong.

Sir Ewen J. Maclean, J.P., M.D., F.R.C.P.

Dr. T. MCKELVEY.

Lord Pontypridd Hospital Visiting Sub-Committee.

Members of the Health Committee whose names are marked thus* with the following co-opted member:

Mr. Herbert M. Thompson, J.P., M.A., LL.D.

Maternity, Child Welfare and Tuberculosis Sub-Committee.

Members of the Health Committee whose names are marked thus † with the following co-opted members:

Mrs. E. THOMAS.

Mrs. A. KERRIGAN, J.P.

Mrs. H. GRIFFITHS.

Mrs. M. D. Lewis.

Sir Ewen J. Maclean, J.P., M.D., F.R.C.P.

Sanitary Services Sub-Committee.

Members of the Health Committee whose names are marked thus I

Special Services Committee of the Education Committee.

Chairman:

Alderman Sir W. R. WILLIAMS, J.P.

Deputy Chairman:

Councillor H. E. WHITE, J.P.

The Lord Mayor (Alderman O. CUTHBERT PURNELL, Councillor T. J. MULLINS. J.P.)

" G. J. FERGUSON.

Alderman G. Fred Evans, J.P. ,, J. Heginbottom, J.P.

, SIR HERBERT HILES, M.B.E., J.P. ,, MORGAN DAVIES, J.P.

W. G. HOWELL. ,, J. P. COLLINS. C. H. McCale. ,, G. E. B. Frewer.

J. D. WILLIAMS.

Miss Mabel Howell.

Councillor J. HELLYER.

Co-opted Members: Miss M. Sanders, J.P.

REV. D. J. THOMAS.

Joint Health and Education (Medical Services) Sub-Committee.

Representatives of Health Committee:

Councillor James Griffiths, J.P.

(Chairman)

W. R. WILLS. A. J. BEECHER. F. CHAPMAN.

W. T. BANBURY.

Representatives of Education Committee:

Alderman Sir W. R. WILLIAMS, J.P.

G. FRED EVANS, J.P.

SIR HERBERT HILES, M.B.E., J.P.

THE LORD MAYOR (Alderman

O. CUTHBERT PURNELL, J.P.)

Councillor R. G. ROBINSON.

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THE LORD MAYOR.

Chairman:

Councillor T. J. MULLINS.

Deputy Chairman:

Councillor T. J. KERRIGAN.

,,

Councillor R. G. ROBINSON.

W. H. J. Muston.

J. P. COLLINS.

A. J. MARTIN. A. POWELL.

Councillor W. T. BANBURY.

T. H. LOVITT.

J. D. WILLIAMS. M. ROBERTS.

E. J. CAZENAVE.

Councillor F. G. JEANS.

Co-opted Members:

Mrs. A. Kerrigan, J.P. Mrs. C. Cantillon.

Mrs. A. A. Evans. Mrs. G. POWELL.

Public Assistance Committee.

Chairman:

Alderman SIR C. W. MELHUISH, J.P.

Deputy Chairman:

THE LORD MAYOR (Alderman O. CUTHBERT PURNELL, J.P.)

Alderman C. H. McCale.

Councillor G. E. B. FREWER.

Councillor James Griffiths, J.P.

J. HEGINBOTTOM, J.P. MORGAN DAVIES, J.P.

C. G. MORELAND.

F. CHAPMAN. A. J. MARTIN.

A. POWELL. ,,

A. WESTON.

J. D. WILLIAMS.

,, F. EDWARDS.

M. ROBERTS. F. G. JEANS.

Co-opted Members:

Mrs. C. CANTILLON.

Mrs. A. A. Evans. Miss E. INGLEDEW.

Mr. J. J. AMES.

Mr. G. D. THOMAS.

Mr. G. H. SNOOK. Mr. F. INGLETON.

Mr. E. J. SAWYER.

STAFF.

Medical Officer of Health, School Medical Officer, Medical Officer for Mental Deficiency and Medical Officer for Public Assistance:

J. GREENWOOD WILSON, M.D., F.R.C.P. Lond., D.P.H.

Deputy Medical Officer of Health: W. POWELL PHILLIPS, M.R.C.S., L.R.C.P. D.P.H.

Assistant Medical Officers

HERBERT SHEASBY, M.B., Ch.B., D.P.H. HELENA J. WEBSTER, B.Sc., M.B., B.Ch., D.P.H.

NANCY K. GIBBS, M.R.C.S., L.R.C.P., D.P.H. HILDA A. COHEN, M.R.C.S., L.R.C.P., D.P.H. JEAN W. SMELLIE, M.B., Ch.B., D.P.H.

CECIL W. ANDERSON, M.B., Ch.B., D.P.H.

G. EDWARD PHILLIPS, M.R.C.S., L.R.C.P., D.P.H.

Two Part-time Assistant Medical Officers.

Specialist Medical Officers (Part-time):

Ophthalmic Surgeon: RUPERT J. PARRY, M.B., B.S. (Lond.) Orthopaedic Surgeon: A. O. PARKER, M.D., C.M., M.C.P.S. (Man.)

Aural Surgeon: R. D. OWEN, B.Sc., F.R.C.S. (Ed.)

Consultant (Juvenile Rheumatism): A. G. WATKINS, M.D. (Lond.) M.R.C.P. (Lond.)

Dental Staff:

D. W. ELLIOT, L.D.S.

W. A. SUTHERLAND, L.D.S.

D. J. Andrews, L.D.S.

P. G. OLIVER, L.D.S.

C. N. HOWITT, L.D.S. Five Clerk-Attendants.

Health Visitors, School and other Nurses, and Municipal Midwives:

Supervisor: Mrs. L. HUNTLEY.

Fifteen Health Visitors (Including two part-time

Tuberculosis Nurses).

Two Tuberculosis Nurses (Whole-time).

One Venereal Diseases Nurse.

Nine School Nurses.

Two Orthopaedic Nurses.

Eighteen Municipal Midwives.

Sanitary Inspectors (Urban):

Chief Inspector: W. G. PYATT. One Chief Assistant Inspector. Seventeen Assistant Inspectors.

Sanitary Inspectors (Port):

Chief Inspector: T. D. HILL. One Chief Assistant Inspector. Six Assistant Inspectors.

Veterinary Inspection and Meat Inspection (Abattoirs) Staff: Veterinary Officer and Chief Inspector of Meat: JOHN H. M. HUGHES, M.R.C.V.S., D.V.S.M. Three Assistant Inspectors of Meat.

Public Analyst's Laboratory:

Public Analyst: STANLEY DIXON, M.Sc., F.I.C. Assistant Chemist: R. G. MINOR, A.I.C. One Laboratory Assistant.

Mental Deficiency Staff:

Visiting and Inquiry Officer: WM. C. SWEETLAND. Visiting Officer: Miss K. POWELL. Occupation and Training Centre: Supervisor: Mrs. A. DASCOMBE. One Instructress and 1 Instructor.

Clerical Staff (excluding Hospitals):

Chief Clerk: THOMAS CHANT.

Eleven male Clerks and 10 female Clerks (General Public Health Service, etc.). Three male Clerks and 7 female Clerks (School Medical Service).

Other Staff:

One Epidemic Officer. One Infant Protection Visitor. One Vaccination Officer.

Hospitals:

Llandough Hospital:

Medical Superintendent: DAVID G. MORGAN, M.R.C.S., L.R.C.P. (Also Medical Officer, City Lodge)

Deputy Medical Superintendent and Physician: D. A. WILLIAMS, B.Sc., M.D. Senior Resident Surgical Officer: W. D. LOVELOCK JONES, B.SC., M.B., B.Ch., M.R.C.S.,

L.R.C.P.

Matron: Miss C. L. John (Also Superintendent Nurse, City Lodge)

Dispenser: SELWYN DAVIES, Ph.C., M.P.S. Almoner: Miss G. OLWEN WILLIAMS.

Five Junior Resident Medical Officers.

Visiting Consultant Staff:

Hon. Consulting Physician: Professor A. M. Kennedy, M.D., F.R.C.P.

Physician: ABEL EVANS, M.B. B.S. (Lond.), M.R.C.P. (Lond.)

Surgeon: D. J. HARRIES, D.Sc., M.D., F.R.C.S.

Gynaecologist: Professor G. I. Strachan, M.D., F.R.C.P., F.R.C.S., F.C.O.G.

Radiologist: T. GARFIELD EVANS, M.D. (Lond.), D.M.R.E.

Aural Surgeons: R. D. OWEN, B.Sc., F.R.C.S. (Ed.); A. A. PRICHARD, M.D.

Orthopaedic Surgeon: A. O. PARKER, M.D., C.M., M.C.P.S. (Man.)

Physician for Diseases of Children: A. G. WATKINS, M.D. (Lond.), M.R.C.P. (Lond.)

Pathologist: Professor J. B. Duguid, M.D. Bacteriologist: W. PARRY MORGAN, M.A., M.D.

Anaesthetist: J. HARDSTAFF WEST, M.R.C.S., L.R.C.P., D.A. Dentist: W. E. HALLINAN, L.D.S.

Isolation Hospital:

Medical Superintendent: G. EMRYS HARRIES, M.B., B.S. (Lond.), M.R.C.S., L.R.C.P., D.P.H. Matron: Miss E. P. Chubb. One Resident Assistant Medical Officer.

> Lord Pontypridd Hospital: Matron: Miss M. W. Fox.

Public Vaccinators (Part-time):

J. J. Buist, M.B. (Lond.) C. C. Ralph Downing, M.D.

A. DOWER, M.D.

H. C. C. JOYCE, M.R.C.S., L.R.C.P.

J. F. DOVER, M.B., B.S.

Public Assistance Medical Officers:

City Lodge:

Medical Officer: DAVID G. MORGAN, M.R.C.S., L.R.C.P. (Also Medical Superintendent, Llandough Hospital)

> Deputy Medical Officer: JOHN JONES, M.B., B.Ch. Three Resident Assistant Medical Officers.

Ely Lodge (P.L. Mental Deficiency Institution):

Medical Officer and Master: J. ROWLAND PAYNE, M.R.C.S., L.R.C.P.

District Medical Officers:

H. D. E. WHITMAN, M.R.C.S., L.R.C.P. (Whole-time)

E. MERVYN JONES, M.R.C.S., L.R.C.P., D.P.H. J. F. DOVER, M.B., B.S. (Part-time) (Whole-time)

A. Dower, M.D. (Part-time)

D. W. GIRVAN, M.B., C.M. (Part-time)

E. LLEWELLYN, M.B., Ch.B. (Part-time)

A. H. MITCHELL, M.B., Ch.B. (Part-time)

H. C. C. JOYCE, M.R.C.S., L.R.C.P. (Part-time)

M. G. WILLIAMS, M.R.C.S., L.R.C.P. (Part-time)

PREFACE.

AIR RAID PRECAUTIONS.

Preoccupation with A.R.P. having combined with illness of staff to delay publication of the annual report for 1937, a brief description of what has been accomplished on the medical side of A.R.P. may not be amiss. The general control of A.R.P. has been entrusted by the A.R.P. Committee to a Casualty Services Sub-Committee composed as follows:—Chairman: Councillor James Griffiths, J.P. (Chairman of the Health Committee); Deputy Chairman: Councillor W. R. Wills (Deputy Chairman of the Health Committee); Col. J. C. Gaskell, representing the British Red Cross Society; Dr. Edgar Llewellyn, representing the Order of St. John (Priory for Wales); Dr. A. B. Williamson and Dr. F. Y. Pearson, representing the British Medical Association; the Town Clerk (Mr. D. Kenvyn Rees) and the Medical Officer of Health.

The chief concern of this Sub-Committee hitherto has been to press on with at least a minimal course of first-aid training for those volunteers who desire to serve in the A.R.P. casualty services. The first-aid course for each class consists of 10 lecture-demonstrations, each one lasting about an hour and a half. The lecture-demonstrations are given by medical men and demonstrators drawn from panels prepared with the help of the representatives of the British Red Cross Society and the Order of St. John (Priory for Wales) on the Casualty Services Sub-Committee. The large hut in the City Hall quadrangle, which was vacated not long ago by the Welsh Board of Health, has lent itself admirably for conversion into two large rooms for the lecture-demonstrations. Later on it may be used as a club room for A.R.P. volunteers. At the present time, 206 females and 23 males, a total of 229, have completed first-aid courses, and 292 females are now under training. It is proposed that in the near future all these shall undergo training in anti-gas measures. A.R.P. badges are to be issued to those who have made eight attendances out of a possible 10.

It is evident, therefore, that the training of personnel is well under way. What remains to be accomplished is the completion of a revised scheme of first-aid posts. At the time of the September crisis a complete scheme had already been prepared, and a map showing the positions of all first-aid posts in the city had been published in the local press. Now, as a result partly of the lessons learned during the crisis, a new scheme of first-aid posts has been submitted to the Home Office for approval. Meanwhile, thanks to the brilliant co-operation of the City Transport Department, Cardiff is not without a first-aid post, and has the comfort of knowing that, at need, an almost unlimited number of posts like the one presently to be described could be put into commission at very short notice. The first-aid post already in existence is a mobile one, and its description is reproduced by courtesy of the Editor of the *British Medical Journal* as follows:—

Among many examples of the rapid improvisation that became so necessary during the recent crisis the Cardiff city council's scheme for converting motor buses into mobile first-aid posts deserves special mention. Its greatest advantage was that whereas the schools that had been earmarked for first-aid posts had not, by Home Office instructions, to be adapted for their purpose until the last possible moment, and therefore could never have been ready in time, a fleet of five or more mobile first-aid posts converted from the Cardiff corporation's motor buses could have been ready for the road by zero hour. As it is, in view of the end of the crisis, only one unit has been completed, but it will serve as a model for others to be established at a moment's notice.

The vehicle chosen was a single-deck bus, which, although old enough to be replaced for passenger traffic by vehicles of more modern design, is eminently suitable for its new purpose. The chocolate, red, and yellow colouring of the bodywork has given way to the white of medical service. Glass windows, because splinterable, were removed, and the apertures filled with matching (and gas-tight) bodywork. In buses of this type the entrance for passengers and conductor is towards the rear on the near side. The outer doorway of this entrance was treated in the same way as the window apertures, and when the floor had been extended from the inner doorway over the two steps there was a recess for the reception of an exactly fitting all-steel cabinet for the storage of medical sundries. The storage capacity of this cabinet, which to economize space has overlapping sliding doors, is sufficient to take all instruments, anaesthetics, dressings, and drugs that might be required not only for first aid but for major operations such as intravenous transfusion of blood or saline and amputation.

The list of medical sundries, which, of course, is easily variable, is as follows:-

1 sterilizer.

3 pairs dressing forceps. 3 pairs artery forceps.

2 scalpels.

2 syringes (hypodermic) and 1 dozen needles.

3 pairs of dressing scissors.

1 tourniquet.

3 kidney dishes.

8 oz. sodium bicarb.

8 oz. boric powder.

8 oz. tinct. iodine.

16 oz. dettol.

4 oz. tannic acid jelly.

8 oz. acriflavine solution.

1 lb. plain lint.

1 lb. boric lint.

6 lb, absorbent wool.

8 oz. bleach ointment.

2 nail brushes.

6 towels.

3 tubes sterile catgut and needles.

I large bottle of brandy.

8 oz. sal volatile.

1 lb. ether and chloroform.

1 ether mask.

I tube ethyl chloride spray.

1 feeding cup.

2 pairs india-rubber gloves.

1 blood transfusion apparatus.

1 saline apparatus (including saline tablets).

1 tongue depressor.

2 eye baths

2 boxes safety pins.

2 sterilized dressing boxes.

8 bowls.

1 measuring glass.

1 Winchester quart distilled

water.

12 packets gauze (cyanide, plain, and iodoform).

3 rolls elastoplast dressings.

2 dozen burn dressings. 1 gross each 1 in., 2 in., and 3 in.

bandages.

I doz. triangular bandages.

2 dozen sterile dressings.

1 bottle boric solution (standard).

I bottle sodium bicarb, solution (standard)

1 bottle saline solution (standard).

6 tubes morphine tablets.

I tube strychnine.

1 bottle picric acid solution.

I bottle calamine lotion.

Tetanus antitoxin serum.

The seats of the bus have been replaced by two-tier stretcher racks running the length of the bus with a gangway between, which gives ample room to walk and work. The racks on the off side have six stretchers, and the near side two. The stretchers are all steel. The space between the near-side stretcher rack and the cupboard already described is sufficient: (a) for a cupboard seat for three of the personnel, and (b), when the unit is in action, for a flap table large enough and strong enough for operating on to be let down over the seat. The rear panel of the bus has been cut so as to leave ample space for stretchers to be carried in, and there are two broad steps down from floor level. When not in use the space is closed to draught and even to gas by heavy canvas curtains. On the near side of the bus, between the recessed cupboard for dressings, etc., and what remains of the rear panel is another recess for washing facilitiesa five-gallon water tank with tap opening over a wash-hand basin (the ordinary cheap type in a metal stand), the waste draining by a flexible metal pipe through the floor of the bus. A liquid soap container and towel rail are also fixed conveniently in the same recess.

For the rest, there are stored in various parts of the bus :-

4 stools (collapsible).

2 dressing buckets.

6 hot-water bottles (aluminium with

1 lighting unit (emergency).

1 bedpan.

l urinal.

1 set vacuum flasks (4 x 1 qt.) for hot (sterile) water supply.

I set splints complete in box.

I cylinder oxygen, tubing, and

facepiece.

16 blankets

6 india-rubber sheets.

12 gas masks.

2 doctors' white coats.

2 fire extinguishers.

1 floor mop.

Lighting is by the ordinary bus roof lights running off the bus battery, but as the light would be on continuously an extra battery has been fitted. In addition, there is a surgical lamp on a stand giving a particularly bright light just where it is wanted over the operating table. This is run off accumulators which will last twelve hours' continuous service. The personnel of the unit is one doctor (from the list of doctors who have volunteered for service at first-aid posts), two trained male nurse orderlies (from St. John Ambulance Corps), and one trained female nurse.

The cost of conversion (mainly overtime labour charges) was £95, and of equipment £55, making a total of £150. For the time being it is proposed to have a fleet of four of these converted buses, two (painted white) for non-gas-contaminated casualities, two (painted red) for gas-contaminated cases. The red buses will require all-metal fittings, and the nearside entrance towards the rear may have to be adapted for an air-lock instead of a cupboard recess; they will also have to have tanks built into the roof for larger water supplies. In both the red and the white buses it is proposed to install ventilating fans in the roof to create within the vehicle a positive air pressure sufficient to keep out gas. The height of the bus above ground is also a help in this respect.

It is proposed to use the bus in peace time for an obstetrical emergency flying squad, the establishment of which was recommended in recent maternal mortality reports. In this connexion it is suggested that although the patient in obstetrical emergencies may be too ill to travel a long distance to hospital there would be few cases in which she would be too ill to transfer to the mobile first-aid post at her door, where she would receive all necessary attention at much greater convenience to the medical staff and with correspondingly better prospects of successful results.

GENERAL COMMENTARY.

The figures usually quoted as a rough guide of the health of the city show no startling changes for good or ill. The death-rate is the same as that for 1936 and the birth-rate has risen slightly. The maternal mortality rate is again down a little, being the lowest since 1931, and the infant mortality rate, although it has risen from its record low point of 1936, is still considerably lower than the average for the previous 10 years.

Scarlet fever and diphtheria were more prevalent than in 1936, but, fortunately, scarlet fever continued to be mild in character, and the case mortality of diphtheria was lower than it had been since 1932. A study of the table on page 15, which shows the age incidence of notifiable infectious diseases, demonstrates once again how the danger of a child's contracting diphtheria increases steadily from the first birthday until the age period 5-10 years. Hence the importance of preventive inoculation against diphtheria during the pre-school period, whereas in Cardiff, as in most places where diphtheria immunization is carried out, despite all efforts to teach parents wisdom in this respect, the greater proportion of children inoculated is of school age. Dr. James Kerr, one of the foremost authorities on child hygiene, considers that the omission of diphtheria immunization at the time of weaning or soon after is the greatest failure of our public health system at present.

The tuberculosis death-rates in 1937 were the lowest on record, namely, 0.82 for tuberculosis of the respiratory system and 0.17 for other forms of tuberculosis (total, 0.99 per 1,000 population).

The cancer death-rate in Cardiff, as in other parts of the country, again rose. Although this is no cause for a panic "cancerophobia," it does serve to emphasize the need to press on with the project for the establishment of a Welsh National Radiotherapeutic Institute.

To re-index and re-write the annual report in the preface is fair neither to the report nor to the preface, and in a report of so full and varied interest, that deals with so many important aspects of the city's health services, it is extremely difficult to select for comment or emphasis one more than any other item. The list of contents itself is the most striking, because it shows the extraordinary variety of matters dealt with by a modern health department. Without implying that the other parts of the report are not equally important, it may be noted that (1) on pages 12 and 13 Dr. Webster

continues her analysis of the causes of death in the newly born, (2) on page 13 for the first time in the annual report particulars are given of unemployment and public assistance, (3) on pages 21 to 44 the Medical Superintendents of the City Isolation, Lord Pontypridd and Llandough Hospitals give their own reports on the year's work in those institutions, (4) pages 45 to 58 show a continued growth in the popularity of the accident and asthma services, (5) on page 98 the Chief Sanitary Inspector (Mr. W. G. Pyatt) maintains, in face of contrary opinions from many other parts of the country, that bed-bugs can be eradicated without resort to dangerous fumigant gases, (6) on page 112 the constitution, limits of jurisdiction, etc., of the Cardiff Port Health Authority are defined, (7) on pages 122 to 124 a new graphic method for recording rat harbourage on vessels is explained and illustrated, and (8) on pages 140 and 141 of the School Medical Service report plans are given of the two new Health and Public Assistance Centres that are expected to be ready for use early in 1939.

Appreciation.—An unsolicited (and all the more welcome) testimonial to the activities of this spending department appears on pages 8 and 9 of the Financial Report of the City Treasurer and Controller (Mr. E. W. Barker) for the year ended 31st March, 1938. Writing of the administration of the maternity, child welfare and midwifery services at a cost in the year of £24,240, Mr. Barker claims their operation over a number of years has resulted in a large decrease in the deaths of young children and an increase of the health of adult life which cannot be measured in pounds, shillings and pence. On page 9 of his report Mr. Barker concludes "that there is no doubt that the health service of Cardiff is of a very high standard."

PUBLICATIONS.

The following publications by members of the staff appeared in 1937:-

"The Cardiff Corporation Accident Service" by Dr. J. Greenwood Wilson (with Mr. A. O. Parker). The Medical Officer, 16th and 23rd January, 1937.

"Social Hygiene and Public Health" by Mr. Thomas Chant. The Medical Officer, 30th January and 6th February, 1937.

"The Place of the Health Department in Housing Administration" by Dr. J. Greenwood Wilson. The Journal of State Medicine, 1937, Vol. XLV, No. 7.

"Quantity plus Quality" (The work of the League of Nations Housing Commission) by Dr. J. Greenwood Wilson. Public Health, 1937, Vol. L, No. 12.

"Venereal Disease in Women and Children" by Dr. Helena J. Webster. Public Health, 1937, Vol. LI, No. 2.

"Acute Infective Endocarditis due to Bacterium Coli" by Dr. G. Emrys Harries (with Dr. J. M. L. Burtenshaw). The Lancet, 2nd October, 1937.

J. GREENWOOD WILSON.

Public Health Department, City Hall, Cardiff, November, 1938.

CITY OF CARDIFF.

PUBLIC HEALTH DEPARTMENT.

EXPENDITURE 1936-37.

_						
	Service			Total Expenditure	Income (Excluding Government Grants)	Net Cost of Service
(1)	HEALTH, ETC., SERVICES-			£	£	£
2000	Sanitary Expenses			16,085	509	15,576
	Food and Drugs (Adulteration) Act	****	1,221	216	1,005
	Diseases of Animals Acts			516	70	446
	Midwives Acts			25		25
	Shops Acts		****	540	5	535
	Meteorological Station	****	****	119	_	119
				18,506	800	17,706
(2)	PREVENTION AND TREATME	NT OF		10,000	000	17,700
(-)	Tuberculosis			33,075	446	32,629
(3)	MATERNITY AND CHILD WELFA	RE SERV	ICE	25,708	3,723	21,985
(4)	VENEREAL DISEASES			5,629	-	5,629
(5)	SCHOOL MEDICAL SERVICE			14,500	1,442	13,058
(6)	MENTAL DEFICIENCY SERVICE			17,260	509	16,751
(-)						
(7)	PORT HEALTH SERVICE			5,332	977	4,355
(8)	HOSPITALS, ETC :-					
	City Isolation Hospital			23,615	3,579	20,036
	Caerau Smallpox Hospital			1,923	17	1,906
	Lord Pontypridd Hospital (Du	lwich				
	House)*			1,569	1,569	*
	Llandough Hospital	****		78,610	17,810	60,800
	Accident Unit			6,272	984	5,288
	Total			£231,999	£31,856	£200,143

The School Medical Service and the Port Health Service rank for Government grants on a percentage basis, although the grants are not shown in the above statement.

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Other

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Contributions out of Government funds in respect of certain other services on which percentage grants were made prior to April, 1930, are now merged in the block grant to the Council.

^{*} Maintained out of proceeds of the Lord Pontypridd bequest.

GENERAL HEALTH SERVICE.

I.—SUMMAR Area (acres) :—	RY OF	GENE	RAL A	AND	VITAL	STATIS	TICS.
Including inla	nd wate	r, foresh	nore an	nd Fla	at Holm		13,628
Excluding fore							11,984
Excluding inla							11 500
Population (Censu							223,589
Population (Estima							220,200
Number of person							
Estimated number							
Estimated number	of inhab	ited hor					
and Flat H							3.96
Estimated average	number	of perso	ons per	r occu	pied hou	se	4.6
Rateable value							£1,892,924
Estimated product	of a pen	ny rate					£7,160
Live births			3,400	E	Birth-rate	per 1,000	15.4
Deaths			2,789	Ι	Death-rat	e per 1,000	12.6
Excess of births ov	er death	S	1	Males,	235; Fei	males, 376;	Total, 611
Deaths under 1 year	r		220 I	Death-	rate per	1,000 birth	s 64
D	1-11-1	Linel.					
Deaths of women i	n chiid-				rate per 1,0		rate per 1,000
Puerperal sepsis			3		0.88		0.85
Other puerperal ca			10		2.94		2.82
other puerperur en	4000						
To	otal		13		3.82		3.67
Deaths from variou	us cause	e ·—					
Deaths from various	us cause.						Death-rate
T						Number.	per 1,000
Typhoid fever						2	0.01
Measles						12	0.02
Scarlet fever						2	0.01
Whooping cough	••••					8	0.03
Diphtheria						20	0.09
Tuberculosis of res			1			181	0.85
Other tuberculous	O LOOGOOG						0.17
Cancer	uiseases		••••			38 356	0·17 1·61

II.—AREA AND POPULATION.

The total area of Cardiff (including inland water, foreshore and Flat Holm) is 13,628 acres; excluding inland water, foreshore and Flat Holm it is 11,580 acres. According to the Census of 1931, the population of Cardiff was 223,589 (males

According to the Census of 1931, the population of Cardiff was 223,589 (males 107,309, females 116,280) and the Registrar-General's estimate of the population for mid-1937 was 220,200.

The area and population of Cardiff are shown in municipal wards and registration sub-districts in the following table :—

Localities					Area in Acres (land	Population		
Localities					and inland water)	Census 1931	Estimated 1937	
Adamsdown					1,320	17,209	15,200	
Cathays			****		338	16,566	15,600	
Gabalfa					1,463	18,703	20,100	
Central			****		535	- 13,544	11,800	
South				****	1,073	13,635	13,700	
Central Registr	ation Su	b-District			4,729	79,657	76,400	
Plasnewydd					233	15,056	14,200	
Penylan					1,765	14,146	15,000	
Roath				****	754	15,792	15,200	
Splott					1,912	20,898	21,300	
East Registrati	on Sub-I	District			4,664	65,892	65,700	
Llandaff* \					2,719	27,762	(15,400	
Ely J	1111						15,200	
Canton	****	****	0.00		247	17,273	15,900	
Grangetown		****	****		949	15,403	14,900	
Riverside					320	17,602	16,700	
West Registrat	ion Sub-	District			4,235	78,040	78,100	
Whole City					13,628	223,589	220,200	

^{*}Llandaff was divided into two Wards (Ely and Llandaff) and minor alterations were made to several other Wards in November, 1936.

III.—BIRTHS.

The numbers of births and still-births registered and allocated to Cardiff during 1937, sub-divided according to sex and legitimacy, are shown in the following table:—

and the same		Births.		
		Legitimate	Illegitimate	Total
Males Females		 1,662 1,605	77 56	1,739 1,661
Total		 3,267	133	3,400
		Still-births		
		Legitimate	Illegitimate	Total
Males		 82	2	84
Females	****	 50	4	54
Total		 132	6	138

The number of live births belonging to, but registered outside, Cardiff was 32 (9 males and 23 females), whilst 417 births (226 males and 191 females) and 67 still-births (34 males and 33 females) belonging to other districts were registered in Cardiff. Allowance has been made for these corrections in the net figures shown above.

The 3,400 registered births were equivalent to a birth-rate of 15.4 per 1,000 of the population, as compared with 15.1 per 1,000 in 1936. The rates for legitimate births and illegitimate births were 14.8 and 0.6 per 1,000 respectively. The birth-rate for

each of the last ten years was as follows :-

Year				Birth-rate per 1,000.
1928	 	 		18.0
1929	 	 	****	17 .5
1930	 	 	****	16.9
1931	 	 ****		16.8
1932	 	 ****		15 .7
1933	 	 		15.5
1934	 	 		15.8
1935	 ****	 		15 .2
1936	 	 		15 ·1
1937	 	 		15 -4

The 138 registered still-births constituted a rate of 39 per 1,000 total (live and still) births, as compared with 48 in 1936.

The following is a comparison of the birth-rate for 1937 and the preceding ten years with the birth-rates in England and Wales and the 125 Great Towns for 1937:—

			Birth-rate ber 1,000.
CAPDIEE	(1937	 	 15 -4
CARDIFF	1927-1936	 	 16.5
England and	Wales, 1937	 	 14 .9
125 Great To	owns, 1937	 	 14 .9

The birth-rates for 1937 in municipal wards and registration sub-districts were as follows:—

Lo	calitie	s			Birth-rate er 1,000
Adamsdo	wn			 	17 -2
Cathays				 	14.0
Gabalfa				 	14 .6
Central				 	11.0
South	****			 	18 -6
Central R	egistra	ation Sub	-District	 	15 ·1
Plasnewy	dd			 	13 -8
				 	12.2
Penylan Roath			****	 	13 -3

East Registr	ration Sub-D	istrict	 	15 -1
Llandaff			 	14 -1
Ely		****	 	24 -2
Canton			 	13 -3
Grangetown			 ****	16 .8
Riverside			 	11 -8
West Regist	ration Sub-I	District	 	15 -9
Whole City			 	15 -4

IV.—DEATHS.

Deaths from All Causes.—The total number of deaths from all causes and at all ages registered during the year and allocated to Cardiff, after allowing for the necessary corrections, was 2,789 (1,504 males and 1,285 females). The death-rate per 1,000 of the population was 12.6. The total number of deaths registered in Cardiff was 2,943, but 588 of these were deaths of non-residents, which occurred mainly in hospitals and nursing homes, and 434 deaths of residents of Cardiff occurred and were registered in other areas—including Penarth, where Llandough Hospital is situated. Allowance has been made for these outward and inward transferable deaths in arriving at the net number. Of the 2,789 deaths belonging to Cardiff, 1,181, or 42.3 per cent., occurred in public institutions or nursing homes, as compared with 43.7 per cent. in 1936 and 41.6 per cent. in 1935. The death-rate for each of the last ten years was as follows:—

Year.				Death-rate per 1,000.
1928	****	 	 	11 .7
1929		 ****	 	12.9
1930		 	 	11 -4
1931		 	 	12.8
1932		 	 	12.5
1933		 	 	13.5
1934		 	 	12.3
1935		 	 ****	12.3
1936		 	 	12.6
1937		 	 	12.6

As stated above, the death-rate for 1937 was 12.6 per 1,000. In comparing the death-rate with that for England and Wales and other towns, however, it is necessary to make allowance for differences in the sex and age groups of the population as compared with those for England and Wales. In the following statement, in which the death-rate for Cardiff in 1937 is compared with the death-rate for the preceding ten years and with the death-rates for England and Wales and the 125 Great Towns in 1937, the necessary allowances have been made, by multiplying the death-rates by the appropriate comparability factors:—

				Death-rate per 1,000.
CARDIFF	1937	 		13 .3
CARDIFF	1927-36	 ****		13 ·1
England and	Wales, 1937	 		12 · 4
125 Great To	 	****	13 -1	

The death-rates for 1937 in municipal wards and registration sub-districts were as follows:—

Local	ities				eath-rate er 1,000
Adamsdown					16 -5
Cathays			****		14 .8
Gabalfa					9.6
Central					13 -1
South					11 -5
Central Regist	ration Sub-	-District			12 ·9
Plasnewydd					15 ·8
Penylan					11.5
Roath					13 -9
Splott					12 ·2
East Registrat	ion Sub-Di	strict		••••	13 · 2
Llandaff					10 ·1
Ely	****				7.9
Canton		****			14 .2
Grangetown					12.6
Riverside					14 ·4
West Registra	tion Sub-D	istrict			11 -9
Whole City					12 ·6

The following table, compiled from figures supplied by the Registrar-General, shows the causes of death at various ages during 1937:—

	A	LL AG	ES			Ac	GE PE	RIODS				
Causes of Death	М.	F.	Total	Under 1 yr.	1-2 yrs.	2-5 yrs.	5-15 yrs.	15-25 yrs.	25-45 yrs.	45-65 yrs.	65-75 yrs.	75 years and upwards
Took aid and Done took aid												
Typhoid and Paratyphoid Fevers	1	1	2			1		1				
Africal	9	1 3	12	4	4	1 3	1	1	300		30	
Coorlet Person	1	1	2	*	1	1			_			
Whosping Cough	1	7	8	2	3	3	_					
Dinhthoria	7	13	20	ĩ		8	10			1		
Influenza	29	21	50	_		i	_	1	4	19	11	14
Encephalitis Lethargica	2		2	_	_		_		2	_	-	
Cerebro-Spinal Fever	1	2	3	1	_	1	1	_	_	_	-	_
Tuberculosis of Respiratory												1
System	100	81	181	-	_	_	4	40	77	52	8	-
Other Tuberculous Diseases	21	17	38	2	2	7	6	8	8	4	1	-
Syphilis	10	_	10	2	-	-	-	1	1	5	1	-
General Paralysis of the	100000			- 60								
Insane, Tabes Dorsalis	9	4	13	-	-	_	-	-	2	-11	-	-
Cancer, Malignant Disease	178	178	356	-	1	-	-	1	21	153	122	58
Diabetes	13	25	38	-	-	1	-	-	1	10	18	8
Cerebral Haemorrhage, etc.	25	46	71	-	-	-	-	-	4	21	17	29
Heart Disease	355	367	722	-	-	-	5	7	35	181	225	269
Aneurysm	11	2	13	_	_		_	1	1	8	3 91	
Other Circulatory Diseases Bronchitis	129	105	234	11		3	-	-	2	59 31	22	82 31
Pneumonia (All Forms)	63 97	39	102 155	42	1 13	2	1 2	1 3	12	50	23	8
Other Respiratory Diseases	18	58 5	23	1	10	2	2	0	2	10	5	3
Destis III	25	8	33			-			10	18	3	2
Diarrhoea, etc	20	4	24	17	2	_				3	_	2
Appendicitis	9	8	17		_		3	2	4	4	2	2
Cirrhosis of Liver	2	ĭ	3		_			_	î	1	1	
Other Diseases of Liver, etc.	7	8	15		_	1	_	_	2	6	3	3
Other Digestive Diseases	23	14	37	4	1	_	_	3	4	9	10	6
Acute and Chronic										70.2220	- Marie	
Nephritis	50	36	86	_	-	-	-	3	9	37	25	12
Puerperal Sepsis	-	3	3	-	-	-	-	-	3	-	-	-
Other Puerperal Causes		10	10	-	-	_	-	2	8	-	-	
Congenital Debility, Pre-	100	1										
mature Birth, Malform-	2	100					123					THE ST
ations, etc	66	57	123	120	-	-	2	-	-	1	_	
Senility	20	38	58	-	-	-	-	-	-	1	8	49
Suicide Other Violence	9	3	12	-	_	_	-	7.4	4	19	15	13
Other Defined Diseases	69	. 29	98	3	2 4	7 3	5 14	14 12	20 29	66	41	35
Causes ill-defined or un-	123	91	214	10	4	3	14	12	29	00	41	30
known	1		1	1 156	1		1 3 2	133	35.50	1	1	1920
known	1	1000	1		100	100					1	No.
All Causes	1.504	1.285	2,789	220	34	44	54	100	267	786	658	626
	1,001	-,-00	-,.00		-	-	0.2	200		100		

Cancer.—There was a further increase in the death-rate from cancer, as will be seen from the following table, which shows the death-rates for 1937, compared with those for previous years:—

		Death-rate per 1,000						
		Males	Females	Both Sexes				
1937	 	1 .68	1.55	1.61				
1936	 	1.53	1 -42	1 -47				
1927-1936	 	1 .35	1 .32	1 .33				

The deaths from cancer during 1937 are analysed according to age, sex and localisation of the disease in the following table:—

Cancer— Malignant Disease		Under 15 years		15-25 years		25-45 years		45-65 years		65-75 years		75 years and upwards		All Ages	
		F.	M.	F.	M.	F.	М.	F.	M.	F.	М.	F.	M.	F.	Both
Buccal Cavity and Pharynx Digestive Organs and Peritoneum Respiratory Organs Uterus Other Female Genital Organ Breast Male Genito-urinary Organs Skin Other or Unspecified Organs	s = - 1				1 8 1 - - 2 - -	- 4 - 2 2 1 - - -	6 39 16 — — 3 3 3 3	2 33 6 17 4 14 — 1 6	2 47 5 — 9 — 2	1 35 2 4 2 9 - 1 3	12 11 2 - - 3 1 1	2 16 -4 -3 -1 2	21 105 24 — — 18 4 6	5 88 8 28 8 27 3 11	26 193 32 28 8 27 18 7 17

Deaths from Road Accidents.—The number of deaths from violence (excluding suicide) and the number and proportion of these due to road accidents in each year since 1923 are shown in the following table:—

Voor	Total Deaths	Deaths from	Road Accidents
Year	from Violence (excluding Suicide)	Number	Percentage
1923	100	14	14 - 0
1924	97	21	21.6
1925	91	23	25.3
1926	107	17	15.9
1927	103	20	19 -4
1928	103	26	25.2
1929	98	16	16 - 3
1930	98	29	29.6
1931	93	30	32 . 3
1932	110	31	28.2
1933	88	26	29.5
1934	90	35	38.9
1935	89	34	38 - 2
1936	75	19	25.3
1937	98	30	30.6

The deaths from road accidents in 1937 are analysed in the following table to show the type of vehicle and the class of person involved:—

	Tit-1	Persons Killed							
Vehicles	Fatal Accidents	Motor Cyclists	Passen- gers	Pedal Cyclists	Drivers	Pedes- trians	Total		
Heavy motor vehicles	7		2	_	_	5	7		
Light motor cars	. 12	-	_	_	3	9	12 5 2		
Motor cycle	F	3	_	-	-	2	5		
Pedal cycle		-	_	_	-	2	2		
Heavy motor vehicle an pedal cycle	1	_	'_	1	_	_	1		
Light motor car and peda	1					3.3			
	1	-	_	1	-	-	1		
Framcar	1	-	_	-	-	1	1		
Horse-drawn trolley	1	-	-	-	-	1	1		
Total	30	3	2	2	3	20	30		

Maternal Mortality.—The number of deaths due to puerperal sepsis was 3 and the number due to other puerperal causes 10, a total of 13, corresponding to death-rates of 3.82 per 1,000 live births and 3.67 per 1,000 total live and still-births.

The maternal death-rate has varied during the ten years 1928-1937 as follows:-

Year		-								
			Puerperal Sepsis	Other Puerperal Causes	Total					
1928			2 -44	3 · 42	5.86					
1929			0.76	2 .80	3 . 56					
1930			2.64	2 .64	5.28					
1931			1.85	1 .59	3 -44					
1932			1 -14	4 .28	5.42					
1933			1 .45	3 -49	4.94					
1934			3 -42	4 .28	7 - 70					
1935			2.96	1 .77	4.73					
1936			2.68	1.19	3 .87					
1937			0.88	2 .94	3 .82					

In the following table the maternal death-rate for 1937 is compared with the death-rate for the preceding ten years and with the death-rates for 1937 in England and Wales and in the 125 Great Towns:—

	Maternal Death-rate per 1,000 Live Births					
	Puerperal Sepsis	Other Puerperal Causes	Total			
CARDIFF { 1937	0·88	2 ·94	3·82			
1927-1936	2·09	2 ·77	4·86			
England and Wales, 1937	0 ·97	2·26	3·23			
125 Great Towns, 1937	0 ·96	2·02	2·98			

The following table shows the causes of the 13 deaths which occurred in 1937 in age periods:—

		Ag			
Causes of Death	15-25 years	25-35 years	35-45 years	Total	
Haemorrhage following abortion		 _	1	_	1
Puerperal haemorrhage	****	 1	3	_	4
Puerperal sepsis	****	 _	2	1	3
Puerperal albuminuria		 1	_	_	1
Puerperal phlegmasia alba dolens	****	 _	1	_	1
Puerperal embolism		 _	1	-	1
Other accidents of childbirth		 _	1	1	2
Total		2	. 9	2	13

Infant Mortality.—The number of deaths under one year of age was 220. Of these, 210 were deaths of legitimate infants and 10 were of illegitimate infants. The infant mortality rate was 64 per 1,000 live births (legitimate 64 and illegitimate 75), which is relatively low, but higher than the rates for the two previous years. The rate for each of the past ten years was as follows:—

			oths under 1 rear er 1,000 Births.
	****		77
			84
****			72
			77
		****	76
			77
****			74
			59
			55
			64

The infant mortality rate for 1937, compared with the rate for the preceding ten years and with the rates in England and Wales and the 125 Great Towns for 1937, was as follows:—

		Deaths under 1 year per 1,000 Births.
CARDIFF	{1937 1927-1936	. 64 73
England and	Wales, 1937	58
125 Great To	wns, 1937	62

The infant mortality rates for 1937 in municipal wards and registration sub-districts were as follows:—

Localitie	s.			Deaths under 1 year per 1,000 Births.				
Adamsdown	****			51				
Cathays				64				
Gabalfa				41				
Central				39				
South				66				
Central Regis	stration Sub	o-District		53				
Plasnewydd				121				
Penylan			****	33				
Roath				49				
Splott				97				
East Registra	ation Sub-D	istrict		80				
Llandaff				50				
Fly	****	****		53				
Canton			****	66				
Grangetown				92				
Riverside				59				
West Registr	ation Sub-I	District		64				
Whole City				64				

The deaths from various causes under one year of age in several age periods during 1937, compiled from figures supplied by the Registrar-General, are shown in the following table:—

Causes of Death	Under 1 week	1—2 weeks	2—3 weeks	3-4 weeks	Total under 4 weeks	4 weeks -3 months	3—6 months	6—9 months	9—12 months	Total
Measles				_				1	3	4
Whooping Cough	_					_		2	_	2
Diphtheria	1	_	_	_	1	_	-	_	_	1
Influenza	_	_	_	_	_	_	_	_		_
Tuberculosis of Nervous										
System	_	-	-	-	_	_	2	-	-	2
Tuberculosis of Intestines										
and Peritoneum	-	-	-	-	_	_		_	-	-
Other Tuberculosis		_	-	-	_	-	-	-	-	_
Syphilis		-		1	1	1	-	-	-	2
Meningitis	-	1		_		1	-	-	_	1
Convulsions Bronchitis	1		_	1	2 2	4	4	1		2 11
Praumonia			_	1	1	7	15	8	11	42
Other Respiratory Diseases			33	1		í	-	0		1
Inflammation of Stomach	_					1				î
Diarrhoea and Enteritis				_		11	4	2	_	17
Hernia, Intestinal						**		-		
Obstruction	_		-	_	_	2	_	1	_	3
Congenital Malformation	2.0	1	_	3	14	7	_	1		22
Congenital Debility	0	_	_	_	3	4	1	_	-	8
Premature Birth		4	1	1	58	3	1	_	_	62
Injury at Birth		1	_	_	8	_	_	-	-	8
Atelectasis	15	1	_	_	16	_	_	_	-	16
Icterus	2	_	-	-	2	-	-	-	-	2
Diseases of Umbilicus	-	-	-	-	_	-	-	-	-	-
Other Diseases of Early										
Infancy	-	2	100	-	2	_	-	_	-	2
Suffocation in Bed	-	_	-	_	-	_	-	-	-	
Inattention at Birth Other forms of Violence	1		1	-	1	-	-	-		1
Other Causes	1	_	1	_	1	2	2	1	1 2	2 8
Other Causes	1	7777	_	-	1	2	2	1	2	0
	-									
All Causes	94	10	2	7	113	44	29	17	17	220
Percentage of Total Deaths under 1 year	42.7	4.5	0.9	3 . 2	51.3	20.0	13 -2	7.7	7.7	_

It will be seen that the proportion of infant deaths under four weeks of age was 51.3 per cent. This proportion of the total number of deaths under one year has varied during the ten years 1928-1937 as follows:—

Year.			Deaths under 4 Weeks per cent. of total Deaths under 1 Year.					
1928				41 · 1				
1929				43.9				
1930				50 .4				
1931	****			45.2				
1932	****			50.9				
1933	****			45.3				
1934	****			60.5				
1935	****	****	****	60.3				
1936	****	****	****	49.7				
1937	****	****	****	51.3				

The special investigation regarding deaths of infants under one year, which was commenced in 1935, has been continued, and a report by Dr. Webster on the work for 1937 is given below.

Report by Helena J. Webster, B.Sc., M.B., B.Ch., D.P.H., on Infant Mortality.

Of the 220 deaths of infants registered during 1937, 214 cases were investigated, but in 15 of these no special information other than that already contained in the records of the department was obtainable.

The following table shows the age at death and whether premature or full-time

of the cases investigated :-

Age at Death		Premature	Full-time	Total
Under 24 hours	 	34	10	44
l day—l week	 	23	23	46
l week—l month	 	6	14	20
l month—3 months	 	8	33	41
3 months—6 months	 	4	24	28
3 ,, —9 ,,	 	1	17	18
9 ,, —12 ,,	 	4	13	17
Total	 	80	134	214

In the following table the causes of death in the various age groups (as modified and amended consequent upon the further inquiries) are given:—

			der hrs.	1 da		1	to s	to	to	to .	
Causes of Dea	Premature	Full-time	Premature	Full-time	1 week to month	1 month to 3 months	3 months to 6 months	6 months to 9 months	9 months to 12 months	TOTAL	
Prematurity			-	22	_	2	1	1	-	_	54 9
Asphyxia Neonatorum		5	4		5	1					8
Intra-cranial Haemorrha Atelectasis	ge	1	1 2	_	4	1			_		6
1 1	****	1 3 5 3	1	1	3	2			1		8
Congenital Malformation	e				-		3	_	_	_	3
Congenital Heart Disease			2	_	3	2	_	_	_	_	7
Convulsions					1	3	1	1	-	_	6
Icterus Neonatorum			-		1	1	-	_	-	_	2
Haemorrhage			_	-	2		_	_	_		2
Debility and Marasmus			_	-	3	_	8	2	-	-	13
Broncho-pneumonia	****		-		1	2	9	15	10	13	50
Bronchitis			-	-	_	2	5	4	-	_	11
Pemphigus			-		-	1	-	-	-	-	1
Syphilis			-	_	_	1	-	-	-	-	1
Septicaemia			-	-	-	1	-	-	-	-	1
Sclerema Neonatorum			-	-	-	1	-	-	-	-	1
Pyloric Stenosis			-	-	-	-	2	-	1	-	3
Intussusception		-	-	-	-	-	1	-	1	-	2
Gastro-enteritis			-	-	-	-	9	4	4	_	17
Meningitis	****	-	-	-	-	-	2	2	-	3	7
Acute Mastoid Disease		-	-	-	-	-	-	-	-	1	1
Accidental Death		-	-	-	-	1	-	-		-	1
Total		34	10	23	23	20	41	29	17	17	214

No further information has been illicited as to the reason for the large number of deaths among premature infants. In four cases the mothers had severe ante-partum haemorrhage, seven had albuminuria and excessive sickness during pregnancy, three were said to be due to a fall or accident, and in four cases there was said to be a "poor condition" of the mother. Of the remaining 36 cases of prematurity, nothing could be found to account for the premature termination of labour.

The largest number of deaths from gastro-enteritis occurred during the period 1 month—3 months, and here again most of the mothers gave a history of difficulty with feeding their infants, particularly from birth. With few exceptions, all were

attending the maternity and child welfare centres.

Chest conditions—bronchitis and broncho-pneumonia—accounted for the largest number of deaths of the older infants (3 months-12 months). Six of these deaths definitely followed measles and two followed whooping cough. Again the usual history was the short illness of the infant—a chesty cough for a day or two and then the infant becoming acutely ill and dying within the next few days. Many were admitted to hospital immediately on being seen by a doctor.

V.—UNEMPLOYMENT AND PUBLIC ASSISTANCE.

Unemployment.—The Divisional Controller of the Ministry of Labour (Wales Divisional Office) has kindly supplied the following information regarding the numbers of persons aged 14 years to 64 years who were registered as being unemployed on the dates shown:—

Local Office		anuary, 937	26th 19	July, 037	13th December, 1937	
	Males	Females	Males	Females	Males	Females
Cardiff Bute Docks, Cardiff Cardiff Juvenile Employment	8,007 3,758	2,013	6,444 3,414	1,527	7,251 2,364	1,304
Bureau	440	761	284	561	383	444
Total	12,205	2,774	10,142	2,088	9,998	1,748

The above figures relate to an area which approximates fairly closely to the area of the City of Cardiff.

Public Assistance: Out-door Relief.—The Public Assistance Officer has kindly supplied the following information regarding out-door relief granted during the last week of 1937:—

Number of persons in receipt of relief:-

(a)	Ordinary			 	 	8,027
(b)	"	(coal only)		 	 	477
(c)	Able-bodie	ed	****	 	 	665

The total cost of out-door relief granted during 1937 amounted to £159,114 16s. 1d.

VI.—NOTIFIABLE DISEASES.

(OTHER THAN TUBERCULOSIS).

The incidence of notifiable diseases (other than tuberculosis) is shown in the following table, which also shows the number of cases admitted to hospital and the number of deaths:—

Disease according to N	otificati	on	Cases Notified	Notified Cases admitted to Isolation Hospital	Deaths	
Smallpox				_	_	
Scarlet Fever			495	332	2	
Diphtheria			588	582	20	
Enteric Fever			15	14	2	
Pneumonia*			187	_	155	
Cerebro-Spinal Fever	****		10	8	3	
Acute Poliomyelitis				_	i	
Acute Polioencephalitis			_	_		
Encephalitis Lethargica				_	2	
Dysentery			17	15	_	
Ophthalmia Neonatorum			32			
Erysipelas			62	17	4	
Puerperal Fever and Pue			88†	34	3	
Malaria		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1		_	

^{*}Only such cases of pneumonia as fall into the categories "acute primary" and "influenzal" are notifiable. Deaths from all forms of pneumonia are included in the last column.

†Including 23 cases among non-residents that occurred in institutions.

The incidence of scarlet fever and diphtheria in municipal wards and registration sub-districts was as follows:—

			Scarlet	Fever	Diph	theria
Localities			Cases	Case-rate	Cases	Case-rate
			Notified	per 1,000	Notified	per 1,000
Adamsdown			22	1.51	66	4 .52
Cathays			28	1 .79	40	2.56
Gabalfa			37	1 .84	28	1 .39
Central			21	1 .78	9	0.76
South			23	1 .68	90	6 .57
Central Registration	on Sub-Distri	ct	131	1 .73	233	3 .74
Plasnewydd			19	1 ·34	14	0.98
Donvilan			27	1.80	11	0.73
Roath			33	2.18	28	1 .85
Splott			46	2 · 16	120	5 .63
East Registration	Sub-District		125	1 .90	173	2.64
Llandaff			35	2 . 27	21	1 .36
Ely		****	83	5.65	25	1 .70
Canton			47	2.95	30	1 .89
Grangetown		****	32	2.15	65	4 .36
Riverside		· · · · ·	28	1 .77	17	1 .07
West Registration	Sub-District		225	2 .93	158	2.06
Institutions			14	_	24	-
Whole City			495	2 · 24	588	2 .67

The notified cases of infectious disease are analysed according to age and sex in the following table :-

00	Total	495	588	15	187	10	17	32	62	38	-
All Ages	H.	266	329	6	73	-	=	17	27	38	1
4	M.	229	259	9	114	6	9	15	35	1	1
s. &	F.	1	-	1	9	1	1	1	63	1	1
65 yrs. & upwards	M.	1	1	1	12	1	1	1	9		1
	F.	-	9	-	16	1	-	1	10	-	1
45-65 years	M.	1	1	-	26	1	-	1	15	I	-
45 ars	F.	9	9	1	00	1	1	1	7.0	5	1
35-45 years	M.	4	61	1	11	1	1	1	10	1	T
35 ars	H.	17	28	-	12	1	01	1	00	27	1
20-35 years	M.	12	6	1	15	63	1	. 1	9	1	1
15-20 years	F.	18	23	64	1	1	1	1	1	10	1
15-20 years	M.	00	10	-	9	-	1	1	1	1	T
10-15 years	F.	39	89.	60	65	1	4	1	1	1	1
10- yea	M.	29	45	1	4	63	1	1	1	1	1
5-10 years	F.	114	139	64	3	1	1	1	1	1	1
5- ye	M.	107	126	1	14	1	1	1	1	1	1
4-5 years	F.	23	24	-	61	1	1	1	1	-	1
ye ye	M.	25	27	-	4	1	61	1	1	1	1
3-4 years	F.	25	12	-	က	1	1.	-	1	1	1
ye	M.	24	22	-	3	1	-	1	1	1	1
2-3 years	F.	10	12	1	9	1	-	1	- 1	1	1
ye.	M.	œ	11	1	4	-	1	-	1	1	1
1-2 years	F.	6	œ	-	55	1	-	1	1	. 1	
1 ye	M.	10	4	-	10	-	1	1	1	1	1
Under 1 year	F.	4	63	1	00	1	1	17	1	1	1
Un	M.	-	69	1	10	1	1	115	1	1	1
Dieasea	Listase	Scarlet Fever	Diphtheria	Enteric Fever	Pneumonia	Cerebro-Spinal Fever	Dysentery	Ophthalmia Neonatorum	Erysipelas	Puetperal Fever and Puerperal Pyrexia	Malaria

Smallpox.—No cases of smallpox have been notified since 1932.

Vaccination.—The following statement shows the results of the work in connection with the vaccination of infants whose births were registered during 1936:—

Births registered during 193	36			3,724
Successfully vaccinated	****			1,400
Insusceptible				11
Exempted		****	****	1,800
Died unvaccinated		****		208
Postponed				24
Removed				85
Not found				154
Remaining to be dealt with				42

The proportions of children not returned as vaccinated and of certificates of exemption from vaccination each year since 1922 are shown in the following table:—

Year		Successfully Vaccinated	Certificates of Exemption	Percentage not returned as Vaccinated	Percentage of Certificates of Exemption
1921-22		2,671	1,900	47 -7	37 -2
1922-23		4,223	1,538	35.5	23.5
1923-24		2,801	1,533	44.2	30.5
1924-25		2,541	1,533	48.1	31.3
1925-26		2,132	1,585	54.2	34.0
1926-27		2,027	1,255	52 -2	29.5
1927-28		2,215	1,413	47.8	33 -2
1928-29	444	1,797	1,520	56 -7	36 -6
1929-30		2,009	1,487	50.1	36 -9
1930-31		1,905	1,507	52.5	37 -6
1931-32		1,758	1,639	54.0	42.9
1932-33		1,501	1,791	59 .6	48.1
1933-34		1,519	1,904	60.4	49.6
1934-35		1,399	1,856	62 - 1	50.3
1935-36		1,275	1,881	65 - 4	50.9
1936-37		1,400	1,800	62 -4	48.3

For the purpose of persuading parents to have their children vaccinated a leaflet is sent to them by post immediately after the registration of birth, and the Vaccination Officer visits the homes of all children who are not vaccinated within four months of birth in respect of whom certificates of exemption have not been received. The leaflet is as follows:—

CITY OF CARDIFF.

SMALLPOX AND VACCINATION.

Vaccination provides the only assured means by which smallpox may be effectively prevented and controlled. This minor operation is best carried out in the early months of a child's life, the reason being that at this age little or no disturbance in the general health is caused by vaccination. No danger results from vaccination properly performed during infancy, the best time to carry out the operation being between the ages of 2 months and 6 months. One scratch or insertion is sufficient to afford adequate protection without leaving an unsightly scar.

History of Smallpox in this Country.

Smallpox, before the widespread adoption of vaccination, was very prevalent. Each year produced its death roll, which often amounted to thousands. The victims were usually infants and young children, though no ages were exempt from its onslaught. In order to appreciate the extent of these epidemics, it may be mentioned that in 1871 no fewer than 23,062 deaths were due to this disease and that as recently as 1902 there were 2,452 deaths from smallpox. The number of deaths gives an indication of the extreme virulence of the disease, but such figures do not provide an estimate of the permanent disfigurement and blindness remaining in the track of the epidemics. In 1922 smallpox was introduced from abroad and it spread rapidly. Fortunately, the disease was of a mild type, known as minor smallpox. This outbreak served to demonstrate the rapidity with which this highly infectious disease may spread among the unvaccinated population, in spite of every effort being made to control its course. Severe or major smallpox still exists in other countries. Approximately 50,000 people die from smallpox every year in India.

Reasons why Vaccination is Necessary.

- (1) It is the only certain safeguard against smallpox.
- (2) Virulent smallpox is still present in other countries and it is liable to be introduced into our own country in spite of the existing precautionary measures.
- (3) Should virulent smallpox be brought into the country, the spread would probably be rapid and extensive.
- (4) Aerial transport, with general speeding up of movement from place to place, brings as an accompaniment the added danger of virulent disease being introduced from abroad. The confinement of an infectious disease to a localised area is becoming increasingly difficult.

J. GREENWOOD WILSON,

Medical Officer of Health.

CITY HALL,

CARDIFF.

Scarlet Fever.—It will be seen from the figures given below that there was a considerable increase in the number of cases of scarlet fever notified as compared with the number in 1936, but that, as the disease caused only two deaths, it continued to be of a mild type

Year.	Cases.		Deaths.
1928	 263		2
1929	 642		2
1930	 537		-
1931	 632		5
1932	 726		3
1933	 1,308		4
1934	 905		5
1935	 378		2
1936	 361		2
1937	 495	****	2

Diphtheria.—There was a great increase in the number of cases of diphtheria notified as compared with the number in 1936, but the number of deaths was relatively low. The numbers of cases and deaths and the case mortality during each of the ten years 1928-37 have been as follows:—

Year.	Cases.		Deaths.	Ca	se Mortality per cent.
1928	 487		16		3.3
1929	 735		30		4.1
1930	 731		29		3.9
1931	 589		24		4.1
1932	 493		10		2.0
1933	 476		19		4.0
1934	 520		21		4.0
1935	 349		19		5.4
1936	 343	,	17		4.9
1937	 588		20		3.4

Active Immunization against Diphtheria.—A full description of the scheme for the immunization of children against diphtheria was given in the report for 1935. Details of the work carried out during 1937 are set out in the two following tables:—

Persons	Subjected to Anterior Schick Test			Inoculated* but not subjected to Anterior	Total Number Inoculated*	Failed to attend for Completion of
	Number	Positive	Inoculated*	Schick Test	Thoculated	Inoculation
Under 5 years	184	125	111	873	984	10
5 years and upwards	1,427	636	609	774	1,383	14
Total	1,611	761	720	1,647	2,367	24

*Complete course of injections.

	Subjected to Posterior Schick Test					
Persons	Negative	Positive and again Inoculated (one injection)	Total	Percentage positive		
Under 5 years	668	47	715	6 -6		
5 years and upwards	1,282	101	1,383	7 -3		
Total	1,950	148	2,098	7.0		

Enteric Fever.—Fifteen cases of enteric fever were notified, and two deaths were registered as being due to the disease. The numbers of cases and deaths during the years 1928-1937 have been as follows:—

Year.		Cases.		Deaths.
1928		2		2 .
1929		18		4
1930		11	****	_
1931		8		1
1932	****	8		2
1933		4		1
1934		3	****	1
1935		8	****	1
1936		10	****	4
1937		15		2

Ophthalmia Neonatorum.—Thirty-two cases of ophthalmia neonatorum were notified, 12 of which were notified from institutions. Of the remaining 20 cases, three were treated by private medical practitioners, 10 were treated by nurses of the Queen's Institute of District Nursing, six were admitted to City Lodge Hospital and one was admitted to Cardiff Royal Infirmary. In 31 cases the vision was unimpaired; in the remaining case the vision was lost.

VII.—NON-NOTIFIABLE INFECTIOUS DISEASES.

Measles.—The number of deaths due to measles was 12, corresponding to a death-rate of 0.05 per 1,000 of the population, compared with three deaths and a death-rate of 0.01 in 1936. The number of deaths and the death-rate from measles during the ten years 1928-1937 were as follows:—

Year.	Deaths.		Death-rate per 1,000.
1928	 21		0.09
1929	 113	****	0.50
1930	 8		0.03
1931	 50		0.22
1932	 10		0.04
1933	 32		0.14
1934	 8	****	0.03
1935	 28		0.12
1936	 3		0.01
1937	 12		0.05

Whooping Cough.—Eight deaths were registered during 1937 as being due to whooping cough, corresponding to a death-rate of 0.03 per 1,000. The following is a comparison of the number of deaths and the death-rate from this disease during the ten years 1928-1937:—

Year.	Deaths.		Death-rate per 1,000.
1928	 28	****	0.12
1929	 24		0.11

Year.		Deaths.	Death-rate per 1,000.	
1930		22		0.10
1931		6		0.03
1932		24		0.11
1933		14		0.06
1934		14		0.06
1935		11		0.05
1936		12		0.05
1937		8		0.03

Diarrhoea.—The number of deaths at all ages from diarrhoea, etc., during the year was 24, being equivalent to a death-rate of 0·11 per 1,000 of the population. Of these 24 deaths, 19 occurred among children under 2 years of age, corresponding to a death-rate of 5·6 per 1,000 births. During the 10 years 1928-1937 the number of deaths from diarrhoea, etc., under 2 years and the death-rate per 1,000 births were as follows:—

Year.		Deaths under 2 years.	Death-rate per 1,000 births.
1928		46	 11 -2
1929		44	 11 -2
1930		30	 7.9
1931		29	 7.7
1932	****	30	 8.6
1933		30	 8.7
1934		34	 9.7
1935		22	 6.5
1936		19	 5.6
1937		19	 5.6

Influenza.—During the year there were 50 deaths due to influenza, being equivalent to a death-rate of 0.22 per 1,000 of the population, as compared with 40 deaths and a death-rate of 0.18 per 1,000 in 1936. The following table shows the numbers of deaths registered as being caused by influenza and respiratory diseases and the proportion of such deaths to the total number of deaths from all causes during the ten years 1928-1937:—

		Nu	Proportion per cent. of Deaths		
Year		Influenza	Respiratory Diseases	Influenza and Respiratory Diseases	from All Causes
1928		42	389	431	16 -2
1929		89	425	514	17 -6
1930		23	292	315	12 -4
1931		60	379	439	15.3
1932		57	287	344	12 .3
1933		141	354	495	16 -4
934		16	245	261	9.6
935	****	32	222	254	9.3
936		40	291	331	11.8
937		50	280	330	11.8

Home Nursing of Pneumonia.—The following is a summary of the work done during 1937 by nurses of the Queen's Institute of District Nursing in connection with the arrangement whereby the Institute undertakes the home nursing of cases of pneumonia:—

Cases referred for nursing during the year 95
Visits made during the year 1,063

VIII.—CITY ISOLATION HOSPITAL.

Cases of the following diseases are admitted to the hospital:—Enteric fever, scarlet fever, diphtheria, cerebro-spinal fever, epidemic encephalitis, acute poliomyelitis, bacillary dysentery, erysipelas, food poisoning, puerperal fever and puerperal pyrexia, Cases of measles and whooping cough are also admitted on a selective basis, and cases of these diseases and other minor infectious diseases are admitted from public institutions. The arrangements at the hospital for the treatment of patients suffering from puerperal fever and puerperal pyrexia are not satisfactory. A proposal to provide a new block for the purpose, at an estimated cost of £7,000 (including £750 for furnishing and equipment) was therefore considered during 1937, but the scheme was ultimately abandoned in favour of admitting the cases to the side wards of the medical ward for females at Llandough Hospital as from 9th May, 1938.

The number of patients admitted to hospital, the average daily number of patients under treatment, the number of patient-days and the average duration of residence of

the patients admitted are shown in the following table:--

Disease according to Diagnosis after Admission	Patients Admitted	Average Daily Number of Patients	Patient- days	Average Duration of Residence in days
Scarlet Fever	341 561 591	31 97 30	10,527 32,131 15,919	31 57 27
All Diseases	1,493	158	58,577	39

Report for 1937 of G. Emrys Harries, M.B., B.S., (Lond.,) M.R.C.S., L.R.C.P., D.P.H., Resident Medical Superintendent of the City Isolation Hospital.

During the year all the permanent buildings of the Isolation Hospital were in full use, with the exception of Pavilion 5, which was temporarily closed for about two months for painting purposes. Owing to the considerable increase in the number of patients admitted, it was found necessary to open Caerau Hospital at the beginning of November, mainly for the reception of scarlet fever patients.

The health of the nursing and domestic staff was generally satisfactory. Six nurses contracted diphtheria and one scarlet fever. Eighteen nurses developed other conditions—mainly mild attacks of tonsillitis. Two maids developed diphtheria, and 13

others suffered from various mild illnesses-mostly tonsillitis.

Fifty-five members of the staff were Schick tested and 18 who were ascertained to be susceptible were inoculated against diphtheria, while 25 were Dick tested, one of whom was found to be positive and was therefore inoculated against scarlet fever. Eighteen nurses who were in contact with cases of enteric infection received prophylactic courses of T.A.B. vaccine.

The usual lectures and tutorials were given during the year. Thirteen nurses sat the preliminary State Examination and only one failed, while 22 sat the Final Examination and all were successful.

In the course of the year, 1,493 patients (including patients from other areas) were admitted to the wards.

Scarlet Fever.—Three hundred and fifty-nine patients were admitted to the wards, of whom 341 were true cases of scarlet fever. Seventeen of the others suffered from a variety of adventitious rashes, but one other proved to be a case of enteritis and bronchopneumonia, from which the patient succumbed. In addition, four patients notified as cases of scarlet fever were found to be suffering from measles; these are referred to in the section of this report dealing with that disease.

The type of scarlet fever prevailing was again of a mild character. Of the 341 cases, 338 were finally classified as simple, two as septic or sub-septic (one being a surgical case), and one as toxic. Twenty cases received doses (9,000 units or more) of scarlatinal anti-toxin. Seven cases also received prophylactic doses of measles serum owing to the fact that they were measles contacts. Seventeen of the true cases of scarlet fever suffered concurrently from other diseases, mainly diphtheria, measles, bronchopneumonia and chickenpox.

The principal complications met with were as follows:-

Complication.		Cases.		Percentage.
Adenitis		55		16 - 13
Albuminuria		41		12.02
Arthritis		1	****	0.29
Herpes		8	****	2.35
Nephritis		2	****	0.59
Otalgia		10		2.93
Otorrhoea	****	19	****	5.57
Quinsy		1		0.29
Rhinitis	****	27		7.91
Jaundice	****	1		0.29
Rheumatism	****	1		0.29

There were three deaths, being respectively (1) a child of 3 years who was admitted after mastoidectomy (post-mortem examination showed a large temporosphenoidal abscess on left side), (2) a boy of 4 years who died from faucial haemorrhage due to vascular erosion, and (3) a baby of 1 year, whose death was due to broncho-pneumonia. Classifying these three deaths to scarlet fever, the hospital mortality rate was 0.88 per cent.

Two hundred and fifty-seven cases of scarlet fever received \(\frac{1}{4}\) to 1 tablet of Prontosil three times daily for a period of ten days following admission, while 84 served as a control group. It was found that there was no appreciable difference in the proportion of complications in the two groups.

Diphtheria.—Seven hundred and four patients were admitted to the wards, of whom 561 were true cases of diphtheria, 54 were carriers, while the remaining 89 suffered from non-diphtheritic conditions. Of the latter group, the majority suffered merely from a variety of throat conditions, 73 of these being either tonsillitis or quinsy. The remaining cases were finally diagnosed as follows:—1 septic throat, 1 stomatitis, 3 laryngitis, 3 laryngismus stridulus, 1 stridulous laryngitis, 1 bronchitis, 1 bronchopneumonia, 1 rhinitis, 1 lobar pneumonia (fatal), 1 thrush, 1 coryza, and 1 syphilis.

There were 18 deaths amongst the 561 true cases of diphtheria, giving a case mortality of 3.21 per cent. Of these 18 cases, eight were moribund on admission and died within 24 hours, eight died within 7 days, and the remaining two died on the tenth

and eleventh days respectively after admission to hospital.

Table showing Type of Diphtheria and Mortality:-

Туре		Number	Died	Mortality per cent.
Faucial		362	5	1.38
Faucial and nasal		101	10	9.90
Faucial and aural		3		_
Faucial, nasal and aural		6	_	_
Faucial, nasal and laryngeal		2	-	_
Faucial and laryngeal		14	2	14 - 29
Laryngeal		5	1	20.00
Laryngeal and nasal		1	_	_
Nasal		60	_	
Nasal and aural		2	_	
Aural	****	3	_	
Vaginal		1	_	_
Empyema wound		1	_	
Total		561	18	3 -21

It will be seen from the above table that the diphtheria mortality rate for the year was 3.21 per cent., as compared with 4.81 per cent. in 1936.

The type of diphtheria prevailing generally was not of a very severe character, but in 33 cases it was considered necessary to administer serum intravenously.

Of the 22 cases of laryngeal obstruction referred to in the previous table, 13 were treated with steam and in four instances tracheotomy was also performed; one case only was unsuccessful—a child of 2 years, who died within 12 hours after admission. Two of the other laryngeal cases also died (both within one day of admission). The hospital mortality rate amongst the laryngeal diphtheria cases was therefore 13.64 per cent.

Types of Post-diphtheritic Paralysis:-

Type.			Number.
Palatal paresis			 29
Pharyngeal paral	lysis		 2
Ciliary paresis			 6
Facial paralysis	****		 4
Nuchal paralysis		****	 6
Strabismus			 3
Diplopia			 1
	Tota	1	 51

Thirty-four patients in all suffered from paralysis. The paralysis rate was therefore 6.06 per cent., as compared with 5.7 per cent. in 1936, and 4.8 per cent. in 1935.

Table showing Diphtheria Death-rate according to the Day of Disease on which Serum was given :—

Day of Disease on which Serum given		Number of Patients	Number of Deaths	Number of Deaths per cent.		
lst				24	_	_
2nd	****			146	2	1.30
3rd			1	124	5	4.03
4th				73	4	5 - 48
5th				53	5	9.43
Later than			****	141	2	1.41
	Tota	al		561	18	3 -21

Of the patients who died, 10 were under 5 years, six were in the 5-10 years group, and of the remaining two cases, one was a boy of 12 years who also suffered from tuberculous peritonitis, which largely contributed to his death, and the other was a woman aged 63 years, who was admitted moribund on the sixth day of disease and died an hour after admission.

Measles.—Two hundred and one patients were admitted to hospital as cases of measles, 197 of whom proved to be true cases of the disease. In the remaining four instances the final diagnosis in each case was amended as follows:—(1) bronchopneumonia and pneumococcal meningitis (fatal), (2) chickenpox and broncho-pneumonia, (3) erythema, and (4) arsenical rash.

Of the 197 true cases of measles, four died. The hospital mortality rate was

therefore 2.03 per cent., as compared with 4.35 per cent. in 1936.

The principal complications met with were:-

Broncho-pneumor	nia		 37
Otorrhoea			 18
Adenitis			 3
Rhinitis			 9
Albuminuria			 13
Diphtheria			 5
Lobar pneumonia			 1
Scarlet fever			 1
Parotitis			 1
Nephritis			 1
Bronchitis		****	 1
Whooping cough		****	 2

It is noteworthy that amongst the true cases of measles four were originally notified as scarlet fever, as also were three others as diphtheria.

The following table summarises the age incidence and deaths of measles cases admitted:—

Age				Number	Deaths	Cause of Death
1— 3 months				2	_	_
4- 8 months		****		7	1	Broncho-pneumonia
9-11 months				12	_	-
1— 2 years	****			40	2	1 broncho-pneumonia; 1 miliary tuberculosis
2- 3 years		****		22	-	
3- 4 years	****			26		_
4- 5 years				30	-	_
5- 6 years	****			28	_	_
6- 7 years				17	1	Pneumococcal meningitis
7—10 years		****	200	5	_	_
0-20 years			-	3		_
Over 20 years	****			5	_	_
Total				197	4	

Death in each of the cases mentioned was due to complications present on admission, with the exception of the one case which developed miliary tuberculosis.

The low death-rate from measles this year (2.03 per cent.) is again largely attributable to the fact that all cases of broncho-pneumonia are nursed on open-air balconies day and night, and, in addition, all cases received $\frac{1}{4}$ to 2 tablets of Prontosil orally daily as a prophylactic against secondary streptococcal infections, such as otorrhoea and broncho-pneumonia. No case developed broncho-pneumonia subsequent to admission.

As in previous years, apart from patients admitted with measles from other institutions, cases were chosen for admission on a selective basis of overcrowding and

poverty and the presence of complications, particularly broncho-pneumonia.

Enteric Fever.—Twenty-seven cases were admitted as likely to be suffering from enteric infection, and, in addition, two other cases notified as meningitis were found to be suffering from para-typhoid B.

Of the 29 cases, 13 were found to be true cases of para-typhoid B, whilst 11 were cases of typhoid fever. The five remaining cases were respectively:—1 pyaemia, septic pericarditis and otitis media (fatal), 1 acute infective endocarditis (fatal), 1 allergic erythema, 1 pleurisy and meningism, and 1 lobar pneumonia.

Amongst the 24 cases of enteric fever there was only one death—a youth of 19 years, who succumbed to intestinal haemorrhage and toxaemia. The mortality rate

for enteric fever was therefore only 4.17 per cent.

Bacillary Dysentery.—Twenty-three patients were admitted with a diagnosis of bacillary dysentery, of whom 19 were of the Sonne type and 3 of the Flexner Z type. The remaining patient proved to be a case of multiple polyposis of the colon, and was therefore transferred to Llandough Hospital for further treatment. The 22 cases of bacillary dysentery all made satisfactory recoveries.

Erysipelas.—Forty-nine patients were admitted as suffering from this disease, the diagnosis being confirmed except in two instances. The two exceptions were finally classified as suffering from (1) septicaemia and cellulitis due to chickenpox (fatal) and (2) septic thoracic wound; the latter case was erroneously transferred to this hospital from another institution after a chest closure operation following a street accident. This case was remarkable for the fact that although the heart and lungs had been exposed by extensive chest lacerations, the patient made a satisfactory recovery.

Four deaths occurred amongst the 47 true cases of erysipelas. The causes of death were (1) facial erysipelas and concurrent diabetes in a woman aged 66 years, (2) erysipelas and auricular fibrillation (present on admission) in a man aged 36 years, (3) erysipelas and streptococcal meningitis in an infant of 7 weeks, and (4) erysipelas and chronic bronchitis in a man aged 77 years. The death-rate was therefore 8.51 per cent.

Cerebro-Spinal Fever.—Eighteen patients were admitted as possible cases of this disease and were finally classified as follows:—

	Number	r.	Deaths.
	 14		6
	 1		_
	 1		
	 1		_
	 1		-
Total	 18		6
	 Total	14 1 1 1 1 1 1 1	1 1

In addition to the foregoing, two cases were also notified as cerebro-spinal fever, but were found on admission to be cases of para-typhoid B, and are therefore referred to in the section of this report dealing with enteric fever.

Whooping Cough.—Nineteen patients were admitted as likely to be suffering from whooping cough, all except two proving to be true cases. These two cases proved to be respectively (1) bronchitis and (2) coryza.

Two of the true cases (aged 1 year and 1 year and 5 months respectively) suffering from broncho-pneumonia died, and as these were the only deaths, the mortality rate was 11.76 per cent.

Whooping cough cases are admitted to this hospital on the same selective basis as described in the section of this report dealing with measles.

Chickenpox.—Ten patients were admitted on account of chickenpox. One of them was found to be incubating measles on admission. All made uneventful recoveries.

Puerperal Pyrexia.—Forty-five cases were admitted and were finally classified as follows:—

				Number	r.	Deaths.
Septicaemia				12		3
Septicaemia phleg		alba dolen	s and	1		
Sapraemia				21		_
Sapraemia and ph	legma	sia alba do	lens	3		_
Sapraemia and pu	ılmona	ry embolis	m	1		1
Sapraemia and m	entally	unstable		2		-
Mastitis				1		_
Breast abscess				1		-
Pyrexia				1		-
Phlegmasia alba o	lolens			2		-
	1	Total		45		4

The case mortality was 8.89 per cent.

All the patients, with the exception of the two cases of phlegmasia alba dolens, received Prontosil.

Food Poisoning.—Only one case was admitted during the year, the infecting organism proving to be of the Salmonella group. The patient made a satisfactory recovery.

Other Diseases.—In addition to the aforementioned diseases, there were admitted to the wards 35 patients who were finally classified as follows :-

				Number.
Quinsy	****	****	****	 1
Influenza	****			 3
Influenza and rheu	ımatism			 1
Convalescent tons	illectomy		****	 1
Pemphigus (non-sp	pecific)			 7
Catarrhal jaundice		****		 3
Septic finger				 2
Septic knee				 1
Pleurisy	****			 1
Dysmenorrhoea				 1
Malaria				 1
Tonsillitis				 13
	Т	otal		 35

All the above cases made satisfactory recoveries, with the exception of one fatal case of pemphigus in an infant of 8 days.

Schick and Dick Tests.—The following table shows the number of scarlet fever patients who were Schick tested and the number of diphtheria patients who were Dick tested during the year :-

1			Number Positive	Number Negative	Total	Percentage Positive
Schick Test	****	 	134	111	245	54.69
Dick Test		 	62	82	144	43.06

Active Immunization.—As in previous years, active immunization against diphtheria in all cases admitted to the hospital for conditions other than diphtheria was again carried out when the signed consent of a parent could be obtained. The number of true cases of scarlet fever Schick tested was 245, and of these 134 were found to be positive. Of these 134 cases, 52 were completely immunized* while in hospital, and 56 were partially immunized, arrangements being made for the completion of the course of injections, including subsequent Schick testing, at the public health clinics after discharge of the patients from hospital.

In addition, 45 patients suffering from other conditions were Schick tested, of whom 24 were found to be positive; 3 of these were completely immunized* whilst

in hospital.

^{*}Completed full course of prophylactic injections and subsequently reacted negatively to the Schick skin test for susceptibility to diphtheria.

Laboratory Work.—During the year, 4,483 bacteriological examinations of various kinds were conducted in the hospital laboratory, as compared with approximately 3,000 in 1936. The specimens examined were mainly diphtheria swabs, but included also specimens of cerebro-spinal fluid, sputum, urine, etc.

Special examinations, such as virulence tests, were again kindly carried out by Dr. W. Parry Morgan at the Cardiff and County Public Health Laboratory.

I have much pleasure in paying tribute to the nursing and other staffs of this hospital for their loyalty and devotion to duty, and would also like to express my appreciation to the Medical Officer of Health and the staff of the Public Health Department for their ready co-operation and assistance at all times.

IX.—LORD PONTYPRIDD HOSPITAL (DULWICH HOUSE) AND THE RHEUMATISM SUPERVISORY SCHEME.

Report for 1937 of Cecil W. Anderson, M.B., Ch.B., D.P.H., Medical Superintendent of Lord Pontypridd Hospital.

Twenty-two patients were in hospital on 31st December, 1936 and 112 were admitted during 1937. The number of patients discharged was 112, leaving 22 in hospital on 31st December, 1937. No deaths occurred at the hospital during the year. Four cases were not treated to a conclusion for the following reasons:—

Removed by parents aga	 1		
Removed to Isolation Ho	ospital —		
Diphtheria			 1
Diphtheria carriers			 2
	Total		 4

Of the 112 patients admitted, 45 were boys and 67 were girls, their ages varying from 4 years to 15 years.

The number of cases admitted each year since 1929, according to sex, is shown in the following table:—

Year		Boys	Girls	Total
1929		35	37	72
1930		57	58	115
1931		51	103	154
1932		40	103	143
1933		42	66	108
1934		52	76	128
1935		45	78	123
1936		49	71	120
1937		45	67	112
Tota	1	416	659	1,075

The reasons for the admission of the 112 cases during 1937 were as follows :-

Chorea alone	****		****	10
Chorea and early carditis				16
Rheumatic pains alone	****			12
Rheumatic pains and earl	y carditis	s		55
Chorea and rheumatic pai	ns			1
Chorea, rheumatic pains a	nd early	carditis		4
Chorea and valvular disea	se of the	heart		1
Rheumatic pains and valv	ular dise	ase of the	e heart	6
Arthritis and early carditi	s	****		2
Erythema nodosum alone			****	1
Erythema nodosum and e	arly card	litis		3
Tachycardia alone			****	1
	Total			112

The condition of the heart on admission and discharge of the 108 cases admitted and treated to a conclusion is set out in the following table :—

Condition of Heart	On Admission	On Discharge
Normal Minor cardiac manifestations Major cardiac manifestations	19 82 7	63 41 4
Total	108	108

The average period spent in hospital by the 108 patients who were treated to a conclusion was 76 days.

The following table gives the condition of the heart on admission and discharge of all cases treated to a conclusion since the opening of the hospital in April, 1929:—

Years -	Condition of Heart			
1929-37 Normal		Minor Cardiac Manifestations	Major Cardiac Manifestations	
On admission	106	774	138	1,018
On discharge	612	304	102	

The sedimentation tests carried out in the hospital during 1937 numbered 260. Ninety patients were Schick tested in hospital, 40 of whom were positive. Sixteen of these positive reactors were inoculated with diphtheria prophylactic in hospital, the remaining 24 being referred to the special immunization clinic on discharge for completion of the inoculations.

Γhe	following is a re	cord of th	ne superv	visory wo	rk carrie	ed out du	iring the	e year :-
С	ases remaining u	nder supe	ervision a	t beginn	ing of ye	ear		1,593
N	ew cases attendi	ng						393
С	ases discharged f				7.0		305	
O	ther cases who c	eased to	be super	vised :—				
	Left Cardiff						17	
	Died						6	
	Discharged (not	suffering	from rh	eumatisn	n)		76	
	Ceased to atten	d					100	
						-		504
C	ases remaining u	nder sup	ervision a	at end of	year			1,482
T	otal attendances	s:					*	
	At routine Rhe	umatism	Clinics					3,470
	At Out-patient	Departm	ent of Lo	ord Pont	ypridd I	Hospital		90
F	Routine clinic ses	sions held	1				****	163
(out-patient clinic	sessions	held	****	****		****	37
A	verage attendan	ice at rou	tine clini	c session	s			21 -3
A	verage number	of new ca	ses at ro	otine clir	nic sessio	ons		2.4
A	verage attendan	ice at Out	t-patient	Departn	nent			2 .4

The following table shows the condition of the heart in the 305 cases that ceased to remain under supervision because of attaining the age of 14 years:—

		On Ascertainment	On Discharge
Normal Minor heart manifestations Major heart manifestations	 	122 148 35	184 86 35
Total	 	305	305

The types of heart disease present in the 35 cases having major heart manifestations on discharge were as follows:—

Mitral regurgitation		 	26
Mitral stenosis		 	8
Aortic regurgitation		 	1
	Total	 	35

X.-LLANDOUGH HOSPITAL.

Report for 1937 of David G. Morgan, M.R.C.S., L.R.C.P., Medical Superintendent of Llandough Hospital.

This is the fourth annual report dealing with the activities of Llandough Hospital. It will be noticed from the comparative statistical table on page 44 that over 600 more cases were treated in 1937 than in 1936, and approximately 1,000 more than in 1934. It is also interesting to note that since the hospital was opened in October, 1933, over

17,000 patients have passed through the wards.

In spite of the increased number of admissions, the average daily number of beds occupied remains at about the same figure, whilst the number of patient-days shows a slight reduction. This is explained by the fact that the average stay in hospital in 1937 was 22 ·3 days, as against 28 ·5 days in 1934. This means that the patients are more expeditiously treated, and also that as far as possible chronic cases are not admitted, as the hospital is not intended for them.

The number of operations performed exceeded that of the previous year by 300, and pathological investigations have increased by 2,700. An additional technical laboratory assistant was appointed during the year to cope with the latter increase. After negotiations with the Welsh National School of Medicine, a regular service by the Professor of Pathology and his staff was instituted. No hospital can render the best service to its patients without the expert help of a Pathologist and a Biochemist.

After rendering excellent service since the hospital was opened, Professor A. M. Kennedy found it impossible to continue to pay regular visits to and take full clinical responsibility for the medical wards, but we were fortunate in retaining his association with the hospital as Honorary Consulting Physician, and he is still available for consultation in certain cases. The rearrangement whereby Dr. Abel Evans and Dr. D. A. Williams were appointed physicians has worked well.

The results of the Hospital and State Examinations for nurses continue to be

satisfactory.

It is noted that the number of cases admitted from the Administrative County of Glamorgan is less than in 1936, but it is too early to predict whether the reduction is of any significance.

The amount of money collected by the Almoner shows an increase of £2,427 6s. 10d. The receipts have gone up substantially every year and the result is very gratifying.

We can only reiterate what has been said before about the very excellent library service rendered to the patients by the City Librarian with the help of the Order of

St. John of Jerusalem and the Red Cross Society.

The Asthma Clinic and the Accident Unit, both housed at the City Lodge, are very intimately associated with the hospital. Reports dealing with both services are appended. The way in which the work of both has increased is remarkable and is sufficient proof that they are rendering important service. The accommodation for and the staffing of the Asthma Clinic will have to be reviewed owing to the enormous expansion of the work.

NURSES' TRAINING SCHOOL.

The hospital is approved by the General Nursing Council as a Training School for Nurses.

On completion of three years' training, nurses are required to sit the Hospital Examination and the final State Examination for admission to the general part of the State Register of Nurses. To the nurse who most distinguishes herself in the Hospital Examination each year, the Esther Roffey gold medal is awarded. To those nurses who satisfy the examiners, certificates of training and Training School badges are granted. Based on the results of the Hospital Examination, nurses who so desire are accepted for training at City Lodge Hospital for the certificate in midwifery granted by the Central Midwives Board.

Examination results during 1937 :-

	Passed.	Failed.
Hospital Final Examination	18	 -
State Examination—Final	22	 1
Certificate of Central Midwives Board	6	 1

SOCIAL SERVICE DEPARTMENT.

The Almoner is in charge of the Social Service Department. The duties chiefly undertaken by the department are as follows:—

To interview all patients admitted and discharged, and the relatives of all patients who die in hospital.

To assess and as far as possible to collect payments for treatment and maintenance.

To control the waiting list and arrange for the admission of patients to hospital.

To arrange for the transfer to the Cardiff Royal Infirmary of patients who need radium treatment.

To arrange for the admission of County patients through the Relieving Officers or on payment of the full maintenance rate.

To prepare accounts for treatment and maintenance of Glamorgan County Council and other cases.

To make application to the Cardiff Royal Infirmary for vouchers for cases admitted to hospital who are contributors to the Cardiff Royal Infirmary contributory scheme.

Number of interviews :-

Patients admitted				4,747
Patients discharged	****			4,417
Relatives of patients wh	o died	****	****	334
	Total			9,498

During the year, 1,332 patients were unable to make any payment for treatment.

Income.—The income collected during the year 1937 was £6,944 6s. 10d., as compared with £4,517 0s. 0d. in 1936, showing an increase of £2,427 6s. 10d. The income was derived in the following manner:—

Collected in Hospital	4,397	s. 4	d. 1
Received from Cardiff Royal Infirmary	2,547	2	9
Total	£6,944	6	10

Accident Unit.—The Almoner attends at the Accident Unit at the City Lodge on Tuesday and Thursday mornings to collect out-patient fees, to investigate the financial position of the patients treated, and to make claims under the provisions of the Road Traffic Act. The income collected during 1937 was £235 6s. 4d., as compared with £68 13s. 6d. in 1936, showing an increase of £166 12s. 10d.

Cardiff Royal Infirmary Contributory Scheme.—During 1937, 658 cases were admitted to the hospital through the Cardiff Royal Infirmary contributory scheme, whereby £1 7s. 6d. per week is paid in respect of each patient for a maximum period of four weeks.

Radium Treatment.—Fourteen patients were transferred to the Cardiff Royal Infirmary during 1937 for radium treatment.

Samaritan Fund.—During the year, 212 necessitous patients or their dependants were assisted by the Samaritan Fund. At the end of the year there was a balance of £32 12s. 6½d. in hand, and the following is a statement of the account:—

		£	s. d.
	Cash in hand 1st January, 1937	27	5 11
	Donations	10	17 8
	Income from collecting boxes in hospital	10	18 3
		£49	1 11
	Expenditure	16	9 4
	Balance in hand 31st December, 1937	£32	12 6
The assist	ance given was as follows:-		
	Payments for bus fares		201
	Grants for food	****	7
	Families assisted with a grant for rent		3
	Grant for an artificial limb for an ex-patient	****	1
	Total	****	212

HOSPITAL LIBRARY SERVICE.

The Hospital Library Service is now well established. There is no doubt as to the appreciation of the service by the patients, many of whom through the service have read books for the first time in their lives. In October, 1937, a new stock of books, numbering 350, was supplied from the Central Library. Forty-six books were specially obtained from the Central Library on the request of patients. The number of books issued during 1937 shows a substantial increase of 1,767 over the number issued during 1936—10,603, as against 8,836. The average number issued weekly was 204. During 1937, 120 books were presented to the hospital library by patients and staff (including the nurses). The Red Cross Society and the Order of St. John of Jerusalem continue to render valuable service in distributing the books.

TIME-TABLE OF CONSULTANTS' ATTENDANCES.

Monday	Morning	Mr. D. J. Harries, Surgeon. Dr. W. Parry Morgan, Bacteriologist. Dr. T. Garfield Evans, Radiologist.
	Afternoon	Mr. A. O. Parker, Orthopaedic Surgeon.
Total	Morning	Dr. A. A. Prichard, Aural Surgeon. Dr. A. G. Watkins, Physician for Diseases of Children. Dr. T. Garfield Evans, Radiologist.
Tuesday	Afternoon	Mr. D. J. Harries, Surgeon. Dr. J. Hardstaff West, Anaesthetist.

Wadaaalaa	Morning	Dr. Abel Evans, Physician.
Wednesday	Morning Afternoon	Professor G. I. Strachan, Gynaecologist.
Thursday	Morning	Mr. D. J. Harries, Surgeon. Dr. T. Garfield Evans, Radiologist.
Thursday	Afternoon	Mr. D. J. Harries, Surgeon. Dr. T. Garfield Evans, Radiologist. Mr. R. D. Owen, Aural Surgeon. Dr. J. Hardstaff West, Anaesthetist. (Dr. A. G. Watkins, Physician for Diseases of Children.
Friday	Afternoon	Dr. A. G. Watkins, Physician for Diseases of Children. Mr. D. J. Harries, Surgeon. Mr. W. E. Hallinan, Dentist.
Saturday	Morning	Dr. Abel Evans. Professor G. I. Strachan, Gynaecologist. Dr. J. Hardstaff West, Anaesthetist.

In addition, three attendances weekly are made by the Professor of Pathology and his assistants of the Welsh National School of Medicine.

TIME-TABLE OF ADMISSION CLINICS.

Monday	Afternoon	Admission department for medical cases and Asthma Clinic (Dr. D. A. Williams).
Tuesday	Afternoon	Admission department for surgical cases (Dr. W. D. Lovelock-Jones).
Thursday	Afternoon	Admission department for medical cases and Asthma Clinic (Dr. D. A. Williams).
Friday	Afternoon	Admission department for surgical cases (Dr. W. D. Lovelock-Jones).

STATISTICS.

BEDS PROVIDED.

Male .	 Medical			68	
	Surgical			34	
	Fracture and	Orthopa	edic	20	
					122
Female .	 Medical		****	68	
	Surgical			34	
	Gynaecologic	al		34	
	Fracture and	Orthopa	edic	14	
					150
Children	General			64	
	Ear, Nose and	d Throat		9	
					73
	Tota	al			345

Beds—						
Average daily complement			345			
Average daily number available			342			
Average daily number occupied			291			
Average daily percentage occupied			85			
Average length of stay of patients—da	ays	****	22 · 3			
Average number of patients per occup	pied bed		16.3			
Average number of admissions daily	****		13			
Maximum number occupied					June.	
Minimum number occupied	****	****	226 or	1 27th	Decem	iber.
Nursing Staff—						
Average strength daily			107			
Average number of occupied beds per	nurse		2.7			
ī	PATIENTS					
					0.10	
Patients in hospital on 1st January, 193	7		****	****	243	
Admitted		****		****	4,747	1.000
Discharged					4,417	4,990
Died			****	****	334	
Died	****	****			334	4,751
Patients in Hospital on 31st December,	1937					239
Patients admitted from City of Cardiff						4,294
Patients admitted from Administrativ		y of	Glamorgan	and		
other areas						453
Patients discharged in the normal manne						4,304
Patients discharged against medical advi	ice					113
Patients discharged to :-						
Their own or relatives' homes					4,037	
Cardiff Public Assistance Institution					283	
Other institutions or hospitals					97	
						4,417
Deaths			****	****		334
	m . 1					4.551
	Total	****	3			4,751
Classification of Patient	ts treated	to a (Conclusion.			
Male patients:—						
Under 2 years		****			147	
Over 2 and under 16 years					662	
Over 16 years					1,407	
						2,216

Female patients :-						
Under 2 years				 	 115	
Over 2 and under	16 years	****		 	 614	
Over 16 years				 	 1,806	
						2,535
			Total	 		4,751

Results of Treatment or the Termination.

				1	Number.	Percentage.
Cured		 	 		2,906	61.2
Improv	ed	 	 		1,031	21.7
No char	nge	 	 		458	9.6
Worse		 	 		22	0.5
Died		 	 	****	334	7.0

Analysis of Deaths.

Aį	ge at De	eath—Ye	ars	 Males	Females	Total	Percentage
Under 1				 28	14	42	12.6
1 2				 6	3	9	2.7
2 - 5				 1	8	9	2.7
5 15				 6	8	14	4.2
15 — 25				 17	9	26	7.8
25 — 35				9	9	18	5.4
35 — 45				 15	9	24	7.2
45 — 55				 29	24	53	15.9
55 — 65		****		 41	28	69	20.6
65 — 75				 37	17	54	16 -1
Over 75				 10	6	16	4.8
Tota	1			199	135	334	100.0

		Treated	Percentage	Died	Case Mortality per cent.
Medical Cases Surgical and Gynaecological Cases	 	1,958 2,793	41 ·2 58 ·8	215 119	11·0 4·3

Deaths within 24 hours of admission Deaths 24 to 48 hours after admission Deaths 48 to 72 hours after admission All other deaths	n	 	Number. 62 25 10 237 334	Percentage. $ \begin{array}{r} 18 \cdot 6 \\ 7 \cdot 5 \\ 3 \cdot 0 \\ 70 \cdot 9 \\ \hline 100 \cdot 0 \end{array} $
Number of inquests Number of inquests per 100 deaths Number of autopsies per 100 deaths		 	$\begin{array}{c} 12 \\ 3 \cdot 6 \\ 9 \cdot 9 \end{array}$	

Classification of the Diseases and Conditions for which the 4,751 discharged patients were primarily treated.

	Male	es	Fema	les	70.4
	Discharged	Died	Discharged	Died	Tota
Diseases due to Infection :-					
Influenza	8	-	8		16
Pneumococcal infection—Lungs Miscellaneous	41	11 2	19	5 2	76 5
Rheumatic Fever—Acute with carditis	24	5	17	2	48
Acute without carditis		_	13	_	27
Sub-acute with carditis	_	-	3	-	3
Sub-acute without					
carditis	5	_	11	-	16
Chorea with carditis	6		13	-	19
Syphilis (congenital, primary, secondary)	2	9	13		5
Tuberculosis—Lungs		2 1	7	1	30
Brain and meninges		2		7	9
Intestines and peritoneum	3	2 2	8	1	14
Genito-urinary	2	-	3	1	6
Bones and joints	6	-	2	1	9
Glands	2	-	6	_	8
Miscellaneous Miscellaneous	3 19	=	15		34
Miscenaneous	10				01
Diseases of the Nervous System :-					
Peripheral neuritis, sciatica, neuralgia	20	-	5	1	26
Tabes dorsalis	4	-	4	-	8
Disseminated sclerosis	4	-	1	-	5
Other diseases of the spinal cord	3	_	1	-	4
Inflammation of cerebral meninges General paralysis of the insane and				1	1
syphilis of the meninges	5	_	2	_	7
Paralysis agitans	_	_	ī	_	i
Haemorrhage, embolism and thrombosis					
of cerebral meninges	4	7	9	6	26
Injuries of brain	22	_	6	-	28
Epilepsy	4	-	7	-	11
Mental deficiency	2 23	_	38	_	61
Other disasses of the persons system	10	9	12		94
Diseases of the Eye	1		3	_	4
Diseases of the Ear :-					1
Diseases of the middle ear, including	,		,		
antrum Diseases of the mastoid process	7	_	1 7	-	14
Otitis media	6		13	1	20
Other diseases of the ear	12	_	6	_	18
Diseases of the Nose :-					
Inflammation of mucous membrane Diseases of the septum nasi	14	_	1	_	1 17
Diseases of the accessory sinuses	14		3 7		12
Other conditions	28		19		47
Diseases of the Circulatory System :-					
Diseases of the endocardium		2	4	-	7
Mitral stenosis and mitral regurgitation	6	5 3	10	3	24
Aortic stenosis and aortic regurgitation		5	6	1 3	18
Diseases of the myocardium Auricular fibrillation	5	9	14 5	3 9	30 12
Auricular librillation	9	2000	9	2	12

				Male	es	Femal	les	T-4.1
				Discharged	Died	Discharged	Died	Total
Diseases of the Circulatory	System	-cont.						
Other diseases of the l	heart	****		2	-	3	-	5
Arterio-sclerosis				9	4	4	5	22
Aneurysm and aortitis	(syphili		***	6	2 2	3	-	11
Thrombosis and embol Vasomotor disorders		****	****	_	2	2 2	3	7 2
Essential hypertension			****		2	24	3	31
Diseases of the veins			****	6	_	9	9	15
Diseases of Blood, Blood-fo								10
Lymphatic System :-		0						
Purpura				2	1	5	-	8
Pernicious anaemia .	***	****	****	6	_	12	1	19
Splenic anaemia				_	1		-	1
Acmornyune anaemia		****	****	_	-	1	-	1
Secondary anaemia . Leukaemia .				2	1	8	3	10
Diseases of the lympha		om	*****	24	1	27	3	5 51
Diseases of the Endocrine				24		21		31
Exophthalmic goitre				1	1	1	1	2
Toxic adenoma				4	1	39	- 1	45
Goitre				1	_	4	-	5
Other conditions .				1	_	6	1	8
Diseases of the Breast .				2	-	3	-	5
Diseases of the Respiratory					1 1 1 1 1 1 1			140
Diseases of the larynx		-		4	_	3	-	7
		****	****	16	1	24	2	43 33
Chronic .			****	17	4	12 2		10
Bronchiectasis Asthma—secondary	***		****		1			10
Broncho-pneumonia	***			30	15	27	8 .	80
Fibrosis of lung				2	_	i	_	3
Pleurisy and other dis	eases of	the pleur		15	-	8	-	23
Empyema				5	1	4	-	10
Other diseases of the	respirate	ory system	m	1	2	3	1	7
Diseases of the Digestive S	ystem :-						75 110	
Diseases of the lips, m				9		9 *	11 12 19	1
palate Tonsillitis and quinsy	***		***	8		24	1923	32
Enlarged tonsils and/o	r adenoi	ids	***	293	_	386	_	679
Cantritio				12	_	13	_	25
Enteritis and gastro-e				15	6	23	2	46
Gastric ulcer				36	1	11	-	48
Gastric ulcer—perfora	ted			-	2	-	1	3
Duodenal ulcer			***	29	-	9	-	38
Duodenal ulcer—perfo	orated			1	1	45	3	105
Appendicitis—Acute	ate and	chronic		51 41	6	45 42	3	83
0-1141-				1		11	1	13
77 . 7 . 1				108	1	20	_	129
				3	_	6	_	9
Umbilical an		al		3	-	8	-	11
Strangulated				4	1	6	-	11
Miscellaneous				4	1	1	-	6
Intussusception				-		7	-	1
Volvulus				1	-	1		1
0 11 11		****	****	2		1		3
Diverticula of colon					2	î		3
Intestinal obstruction				3	4	2	1	10
0 11 11				15	_	3	-	18
Ischio rectal abscess			***	13	_	7	-	20
Fistulae, including fiss		the anus		11	-	6	-	17
			***	47	-	14	-	61
				1	-	1	-	2
Totaline to a line		****	***	1 2	-		1	9
Intective laundice			***	3	_	5	1	9

	Male	s	Femal	les	T-4-
	Discharged	Died	Discharged	Died	Tota
iseases of the Digestive System—cont.		,	10		90
Calculi of gall bladder		1	13 12	1	22 17
Adhesions following operation	-		5	_	10
Pyloric stenosis	1	_	ĭ		2
Other conditions	00	3	7	2	34
iseases due to Disorders of Nutrition or					
Metabolism :—	0.1	0	01		
Diabetes mellitus Marasmus	0	2 3	31 10	6	70 25
Feeding difficulties	R		10	-0	16
Asthma—allergic	41		36	_	77
	0	_	8	_	16
Other allergic conditions Rickets Other metabolic diseases	1	-	_	-	1
Other metabolic diseases	1	-	_	-	1
iseases of the Generative System :-	01				0.0
Senile enlargement of the prostate	21	8	-	-	29
Other diseases of the male generative	90	2			92
Diseases of the aver-			11		11
Salpingitis		_	21	_	21
Diseases of the uterine ligaments and				1	
adjacent peritoneum		-	4	-	4
Metritis Endometritis		-	12	_	12
		-	14	-	14
Chronic inflammation of the cervix	_	_	176	-	176
Displacement of uterus Diseases of vagina			40 36	2	36
Diseases of the vulva, clitoris and urethr	a _		16		16
Discongraphose	_	_	10	_	10
Menorrhagia and metrorrhagia		_	8	_	8
Abortion		-	139	-	139
Ectopic gestation		-	2	-	2
Sterility		-	12	-	12
Toxaemias of pregnancy	-	-	39	1	40
iseases of the Bones, Joints, Muscles and Fasciae:—					
Octoitie	2		2	_	4
Osteomyelitis—Acute and chronic	19	1	5		18
Arthritis—Acute		1	3	_	4
Chronic		-	6	-	12
Rheumatoid arthritis	6	-	16	-	22
Diseases of the tendons and sheaths of tendons	1		1	-	1
Diseases of the bureae	9		6	_	14
Displaced internal semilunar cartilage	1.1	_	1	_	12
Other diseases	31	_	20	_	51
iseases of the Areolar Tissue and Skin :-		1 1 28			1248
Cellulitis		1	10	1	31
Boils, carbuncles or abscesses		2	37	2	92
Dermatitis, eczema or impetigo Erythema nodosum			5 3		9 3
Other discours of the ship	4	1	15	1 3 2 3	19
Diseases of the nails	0	_	2	_	4
seases of the Urinary Organs :-		THE STATE OF			
Glomerulo-tubular nephritis-Acute and		The state of			
sub-acute	10	-	14	-	24
Chronic	1	14	14	8	53
Pyelonephritis and pyonephrosis	1	=	2 25	2	5 29
Pyelitis Perinephritis and perinephric abscess	0		25		29
Ranal calculus	14	1	6	1	22
Renai Calculus		1			

				1	Male	s	Femal	es	Total
					Discharged	Died	Discharged	Died	Total
Diseases of the	Urinary (Organs-	cont.						10
Cystitis Vesical calcu	luc	****	****	****	5 2	-	5		10
Urinary diso		****		****	5	3	5		13
Injuries :—	rucis		4.07	++++	0	3		10000	10
Burns and se	calds				17	1	16	1	35
Wounds and			****		20	_	6	_	26
Multiple and	l miscella	neous in			15	_	10	-	25
Fractures—	Skull				4	2	3	-	9
	Bones of	face and	jaw		_	-	1	-	1
		****			3		3	-	6
	Humerus	****			1	-	1		2
	Ulna	****		****				-	1 7
	Radius	mo dino	****	****	6	33	1		5
	Ulna and		nd and wr	ist	6		1		6
	Ribs				4			10000	4
	Spine	****		****	3	-			3
	Femur			****	20 .		8	2	30
	Tibia			****	2		3	-	5
	Fibula				ī	_	1	-	2
	Tibia and			****	9	_	1	_	10
	Patella				3	_	1	-	4
	Small bor		ot		6	_	1	-	7
	Miscellan	eous	****		1	-	2	-	3
Dislocations					1	-	2		3
Tumours—Benig									-
Nervous sys	tem	****	****	+**	2	100	-		2
		****			_	-	4		4
Thyroid gla			****	****	_		1 0		1
				377	2	_	2		2
Lips, mouth			ces	****	1		35	2	37
Ovary and a Cervix		****	****	***		1000	10	-	10
Vagina and	vulva	****					2		2
Bladder	····	****		****	2			_	2
Miscellaneo					ī		2		3
Tumours-Malig	nant :-		****						170
Nervous sys	tem				1	-		-	1
Breast					1	-	9	-	10
Respiratory	system				7	6	1	4	18
Thyroid gla	nd				_	-	1	-	1
	****				2 3	-	2	-	4
Lips, mouth	, tongue	and fauc	es			-	1	-	4
Pharynx, la	rynx and	oesopha	gus		8	7	3	1	19
Stomach		****	****		13	9	4	5	31 16
Intestines			****		6 3	6 4	3 3	1	10
Rectum and		all bladd	lor	****	2	2	9	2	6
Pancreas, li Ovary and				***	1 2	2	3	_	3
Cervix				***			8	2	10
Kidneys		****	****		1	100	1		2
Bladder						_	1	2	5
Prostate					2 2 2	2	-		4
Miscellaneo			****		2	1	3	1	7
Cysts					6	-	16	1	23
Lipoma	****				1	-	5	-	6
Malformations		****			6	1	14	3	24
Miscellaneous :-						1300			100
Other diseas			****		80	2	72	1	155
No abnorma	ality dete	cted		***	46	-	51		97
	1000								
	Tota	1			2,017	199	2,400	135	4,751
	TO CO		****	1.0.0	w.U.I	1 200	-, 200		

Summary of Diseases	ana Conau	tions in O	ruer of	rrequenc	
Diseases of the digestive system		****	****		971
Diseases of the eye, ear, nose and	throat	****		****	846
Diseases of the generative organs	****				664
Diseases due to infection			****	****	334
Diseases of the circulatory system	1		****		279
Tumours				****	247
Diseases of the respiratory system	1	****	****	****	217
Diseases of the nervous system					204
Injuries		****	****	****	191 161
Diseases of the urinary system Diseases of the areolar tissue and	ckin	****	****	****	158
Diseases of the bones, joints, mus		****	****	****	138
Other diagones	cies, etc.		****	****	341
	-		****	****	
Work of	DEPARTM	IENTS.			
Pathological	Investiga	ations		****	9,732
Surgical	Major op			,	672
	Minor op	erations			1,763
Dental	Patients				97
		ices for ti		t	127
Radiological		investiga	ted	,	1,330
Vision	Investiga				3,535
Massage	Patients	nto	****		20 461
Illtra Violet Light	Treatmer Patients		****	****	28
Ultra-Violet Light	Treatmen	nte	****	****	244
Admission	Patients		****	****	3,179
Nurses' Sick Room	Admissio			****	72
					17
	GICAL DE				
Analysi	s of Invest	tigations.			
Swabs—Ear, nose and throat	1				5
Pus—Stained smears for organisms		****	****		177
Cultures for organisms			****	****	20
Smears—Stained for gonococci			****	2.22	23
Blood—Counts (full)	****	****		****	1,119
Leucocyte counts	****				
Elatelet and refleulocyte coun	1			****	1,396
Platelet and reticulocyte coun	ts				1,396 46
Coagulation bleeding time	ts			****	1,396 46 12
Coagulation bleeding time Grouping		****	****		1,396 46 12 20
Coagulation bleeding time Grouping Chemical investigations	****				1,396 46 12 20 496
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms	****	****			1,396 46 12 20 496 33
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations	ations				1,396 46 12 20 496 33 202
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations	ations				1,396 46 12 20 496 33 202 57
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal depo	ations				1,396 46 12 20 496 33 202
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal depo	ations				1,396 46 12 20 496 33 202 57 1,360
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal depo	ations				1,396 46 12 20 496 33 202 57 1,360 54
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deports Bacteriological investigations Chemical investigations	ations				1,396 46 12 20 496 33 202 57 1,360 54 3,529
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deports Bacteriological investigations Chemical investigations Fractional test meals	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate and investigations Chemical investigations Chemical investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate and investigations Chemical investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood Chemical investigations	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27 7
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate Bacteriological investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood Chemical investigations Pathological sections reported	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27 7 471
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate Bacteriological investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood Chemical investigations Pathological sections reported Post-mortem examinations	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27 7 471 33
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate and investigations Chemical investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood Chemical investigations Pathological sections reported Post-mortem examinations Clinical photographs	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27 7 471 33 9
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate Bacteriological investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood Chemical investigations Pathological sections reported Post-mortem examinations	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27 7 471 33
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate and investigations Chemical investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood Chemical investigations Pathological sections reported Post-mortem examinations Clinical photographs	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27 7 471 33 9
Coagulation bleeding time Grouping Chemical investigations Cultures for organisms Cerebro-spinal fluid—Various investigations Pleural fluid—Various investigations Urine—Microscopy of centrifugal deporate and investigations Chemical investigations Chemical investigations Fractional test meals Sputum—Stained smears for tubercle Faeces—Bacteriological investigations For occult blood Chemical investigations Pathological sections reported Post-mortem examinations Clinical photographs	ations osit bacilli				1,396 46 12 20 496 33 202 57 1,360 54 3,529 193 306 64 27 7 471 33 9

In addition to the above-mentioned investigations, which were conducted at the Hospital Laboratory, many ear, nose and throat swabs, and specimens of blood for the Wassermann reaction, were examined at the Cardiff and County Public Health Laboratory.

ANALYSIS OF OPERATIONS PERFORMED.

		Major	Minor	Total
On ohin and consensated atmostores		2	101	104
On skin and superficial structures On arteries, veins and lymphatics		3 2	101 25	104
On bones and joints		41	142	183
On muscles, tendons, bursae and fasciae		2	16	18
Amputations		16	3	19
On skull, brain and spine		3	3	6
On mouth, pharynx and oesophagus On thyroid and accessory glands		5 44	9	14
On thyroid and accessory glands On breast		10	9	19
On thorax and contents		15	6	21
On abdominal wall and cavity		363	20	383
On stomach and duodenum		23		23
On intestines, rectum and anus		16	130	146
On liver, gall bladder, pancreas and splee On kidney and urinary tract		6 17	49	66
On male generative organs		16	107	123
On female generative organs		68	402	470
On ear, nose and throat		20	741	761
Unclassified		2	_	2
Total		672	1,763	2,435
Operations performed by Cons Operations performed by Resid				1,369
De	NTAL DEPA	DTMENT		
	NIAL DEPA	KIMENI.		0=
Number of patients treated	****			97
Attendances for treatment				127
4 20/	alysis of At	tendances		
				86
For extractions under general		****		
For extractions with local ana	esthetic			40
For examination without extra	actions			1
	Tota	d		127
Total number of teeth extracte	- 1			665

RADIOLOGICAL DEPARTMENT.

Analysis of Investigations.

Skull for injury							
						****	95
Skull and contents for disease					****		91
Lungs, mediastinum and pleur	ral condi	tions	****	****			676
				****	****		18
Oesophagus, stomach and inte	estines		****			****	989
- I	****					****	162
	****	****	****		****	****	389
	****	****		****		****	10
			****	****	****		568
Bones and joints for disease of Dental	r deform	ity	****	****	****	****	498
	line atc	****	****	****	****	****	20 19
Miscellaneous—for foreign boo	nes, etc.	****	****	****	****	****	. 19
		Total					3,535
		Total		****	****	****	3,000
Special Methods of Investi Barium meals	gation:	-					

Barium enemata			0.00		****		805
	****					****	134
Cholecystograms	****						
Cholecystograms	****		*				134
Cholecystograms Lipiodol injections					****		134 110 33
Cholecystograms		****					134 110
Cholecystograms Lipiodol injections		****			****		134 110 33 206
Cholecystograms Lipiodol injections					****		134 110 33
Cholecystograms Lipiodol injections Urograms—intraver	nous	****					134 110 33 206
Cholecystograms Lipiodol injections	nous	****	al				134 110 33 206
Cholecystograms Lipiodol injections Urograms—intraver	nous	Tota	al				134 110 33 206 1,288
Cholecystograms Lipiodol injections Urograms—intraver Number of patients investi Average number of investi	ous gated gations	Tota	ient .				134 110 33 206
Cholecystograms Lipiodol injections Urograms—intraver Number of patients investi Average number of investi Average number of investi	gated gations gations	Tota	ient .				134 110 33 206 1,288 1,330 2 · 7 0 · 74
Cholecystograms Lipiodol injections Urograms—intraver Number of patients investi Average number of investi	gated gations gations	Tota	ient .				134 110 33 206 ———————————————————————————————————

MASSAGE AND LIGHT DEPARTMENT.

		Massage	Ultra-violet Light
Patients treated	 	20	28
Remaining under treatment on 31st December, 1937	 	2	2
Patients discharged from department	 	18	26
Number of treatments	 	461*	244

NURSES' SICK-ROOM.

Complement of nursing staff on 31st December, 1937	****	****	109
Average daily complement of nursing staff		****	107
Average daily complement of nurses available for duty			105
Nurses off duty sick during the year	****		67†
Nursing days lost (sick leave included)	****	****	794
Average number of nursing days lost per annum :-			
Per sick nurse		****	11 .85
Per nurse of the average daily complement			7.5

^{*}All medical cases. †Five nurses off duty twice, making 72 admissions to the Nurses' Sick-room.

4 4

			77				
Disabilities.							Number.
Rheumatism				****		****	2
Ear, nose and thi	oat cond	litions		****			22*
General debility							12
Gastric disturban	ce		****				7
Injuries							1
Conjunctivitis		****		****			2
Breast abscess		****			****		1
Septic conditions		****		****			12+
Influenza				****	****		2
Appendicitis							3:
Catarrhal jaundic		****	****		***	****	2
Measles		****		****			18
Scarlet fever	****	****	****		***		48
Diphtheria		****		****			18
Dipititeria			****	****	****		
			Total				72

* Including 2 minor operations. † Including 2 minor operations. † Major operations. † Transferred to Isolation Hospital.

COMPARATIVE TABLE.

	1934	1935	1936	1937
Beds—				
Average daily complement	345	345	345	345
Average daily number available	343	343	342	342
Average daily number occupied	292	293	292	291
Average daily percentage of		200		201
available beds occupied	85	86	85	85
	00	00	00	00
Average number of patients per	12 -8	13 -2	14.1	16.3
occupied bed	12.0	19.7	14.1	10-3
Average daily complement of nursing	100	107	101	105
staff available	102	107	101	105
Average daily number of admissions	10 .2	10.5	11.3	13
Patient days	106,590	106,859	106,733	106,023
Average length of stay per patient		122723		
in days	28 · 5	27 .7	25 · 9	22 · 3
Medical cases	1,404	1,498	1,456	1,958
Surgical cases	2,336	2,360	2,667	2,793
Total cases treated to a conclusion	3,740	3,858	4,123	4.751
Percentage of patients—				
Cured or recovered from acute				
attack	58.6	57 -4	60.7	61.2
Improved	27.0	24 - 4	21.1	21.7
No change	6.5	9.6	9.8	9.6
Worse	0.2	0.2	0.2	0.5
Di- I	7.7	8.4	8.2	7.0
Doth dod 1 1 1 1 1 1	5,263	6,148	7,015	9,732
100 1 1	16.6	18.4	17.2	9.9
Operations—	10.0	10 x	2, ~	
Maion	991	1,266	762	672
Minor	928	714	1,365	1,763
Dental—	920	114	1,000	1,100
	115	109	89	97
Patients treated	115	2 5 5 5 5	113	127
Treatments	180	143	110	121
Radiological—	1 000	1 051	1 ***	1 220
Patients investigated	1,222	1,371	1,555	1,330
Investigations	2,193	2,282	2,646	3,535
Massage—			1-	90
Patients treated	64	45	45	20
Treatments	974	826	752	461
Ultra-violet Light—				00
Patients treated	64	89	22	28
Treatments	581	802	121	244
Patients seen at Admission				
Department	1,222	2,986	2,294	3,179
Admissions to Nurses' Sick-room	47	58	- 78	72
Sum received at Hospital for		No. of the last of	A THE STREET	100000000000000000000000000000000000000
treatment and maintenance	£1,947 3s. 7d.*	£3,815 13s. 2d.	£4,517 0s. 0d	£6,944 6s. 10c
The state of the s	~			Market State of the last of th

ACCIDENT SERVICE.

After its second complete year of working, it is possible to show a steady increase in the number of patients attending the Accident Unit. During the year, 1,755 new cases were referred to the Unit, compared with 958 new cases in 1936. The total number of attendances of out-patients was 8,029, compared with 4,415 in 1936.

The large number of patients attending has caused difficulties in dealing with them without overcrowding, and this means that some extension of the present premises at

City Lodge is essential for the efficient working of the Unit.

That the work is still increasing is further shown by the fact that the number of new patients referred in the second half of the year was 1,019, compared with 736 in the first half.

The increase during the year has been in all classes of cases, the most striking being the number referred by the Police—246, compared with 106. The number of industrial cases referred has increased satisfactorily, but it is still felt that there are many more cases of this class that would benefit by the facilities offered by the Accident Unit.

Sex of patients: Males	-						1,070
	****	****				****	
Females	****	****	****	****	****	***+	685
			Total				1,755
Sources from wh	nich new	eases wer	e derived :	_			
Private pra	ctitioners	****					880
Police							246
Other source	es			****		****	629
			Total				1,755
Method of dealin	ng with ca	ases :—					
As In-patie	nts at :-						
(a) Cit	y Lodge (Accident	Unit beds	s)			169
(b) Cit	y Lodge (Other be	eds)	****			43
(c) Lla	ndough H	Iospital					127*
As Out-pat	ients at th	ne Unit					1,461
Classification of	type of a	ccident :-	_				
Industrial a	accidents						249
Road accid	ents						486
Other accid	lents (e.g.	, domesti	c, sport, e	tc.)			1,020
			Total				1,755
Operations perf	ormed by	the Ac	cident Un	it Staff	at Lland	lough H	ospital :—
Fractures a	-						73
Orthopaedi							31
Ormopueur	operation						
			Total				104

^{*}Including 45 cases transferred from beds at City Lodge.

The total number of attendances of out-patients was 8,029, and the following were the conditions treated:—

FRACTURES.

Skull—Vault						1
Base						7
Bones of Face	and Jaw					9
Clavicle						33
	(Head and neck					16
Humerus	Shaft					7
	Condylor and s	upra-con	dylor			28
	(Head					20
Radius	Shaft					86
	Colles					108
	Olecranon					13
Ulna	Shaft	****	****			47
Cina	Styloid					
						-
C11 1	Scaphoid	****				5
Small bones	Rest of Carpus	****				1 26
of Hand and Wrist	Metacarpals Phalanges				****	27
	Thalanges	****		****		
Ribs		****	****			15
Sternum						2
	C Dods.					3
Scapula	{Body Glenoid and ne	ole.				-
	(Glenoid and ne	CK	****	****	****	
Pelvis						4
I CIVIS	****	****	****			-4
Tervis	Cervical					_
Tervis	Cervical			••••		
	Cervical Dorsal Lumbar					- - 4
Spine	Dorsal					_
	Dorsal Lumbar Transverse prod Sacrum					<u>-</u>
	Dorsal Lumbar Transverse prod	 cesses and	 1 spinous	 processes		- 4 3
	Dorsal Lumbar Transverse prod Sacrum Coccyx	cesses and	 l spinous 	processes		- 4 3
	Dorsal Lumbar Transverse prod Sacrum	cesses and	 1 spinous 	processes		- 4 3 1
Spine	Dorsal Lumbar Transverse prod Sacrum Coccyx Upper end	cesses and	 l spinous 	processes		- 4 3 1 - 26
Spine	Dorsal Lumbar Transverse prod Sacrum Coccyx Upper end Shaft Lower end	cesses and	 1 spinous 	processes		- 4 3 1 - 26 16 2
Spine Femur	Dorsal Lumbar Transverse proc Sacrum Coccyx Upper end Shaft Lower end Upper end	cesses and	 1 spinous 	processes		- 4 3 1 - 26 16 2 7
Spine	Dorsal Lumbar Transverse prod Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft	cesses and	 1 spinous 	processes		- 4 3 1 - 26 16 2 7 35
Spine Femur	Dorsal Lumbar Transverse prod Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end	cesses and	 1 spinous 	processes		$-\frac{4}{3}$ $\frac{3}{1}$ $-\frac{26}{16}$ $\frac{16}{2}$ $\frac{7}{35}$ $\frac{35}{30}$
Spine Femur Tibia	Dorsal Lumbar Transverse proc Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end (Upper end	cesses and	 1 spinous 	processes		- 4 3 1 - 26 16 2 7 35 30 6
Spine Femur	Dorsal Lumbar Transverse proc Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end Upper end Shaft Lower end	cesses and	 l spinous 	processes		- $ 4$ 3 1 $ 26$ 16 2 7 35 30 6 20
Spine Femur Tibia	Dorsal Lumbar Transverse proc Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end (Upper end	cesses and	 1 spinous 	processes		- 4 3 1 - 26 16 2 7 35 30 6
Spine Femur Tibia	Dorsal Lumbar Transverse proc Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end Upper end Shaft Lower end	cesses and	 1 spinous 	processes		- $ 4$ 3 1 $ 26$ 16 2 7 35 30 6 20
Spine Femur Tibia Fibula	Dorsal Lumbar Transverse proc Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end Upper end Shaft Lower end Lower end … Lower end … Lower end	cesses and	 1 spinous 	processes		- $ 4$ 3 1 $ 26$ 16 2 7 35 30 6 20 46 7
Spine Femur Tibia Fibula	Dorsal Lumbar Transverse prod Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end Upper end Shaft Lower end Lower end	cesses and	 1 spinous 	processes		$ \begin{array}{r} - \\ 4 \\ 3 \\ 1 \end{array} $ $ \begin{array}{r} 26 \\ 16 \\ 2 \end{array} $ $ \begin{array}{r} 7 \\ 35 \\ 30 \end{array} $ $ \begin{array}{r} 6 \\ 20 \\ 46 \end{array} $ $ \begin{array}{r} 7 \\ 2 \\ 8 \end{array} $
Spine Femur Tibia Fibula	Dorsal Lumbar Transverse proc Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end Upper end Shaft Lower end Astragalus	cesses and	 1 spinous 	processes		$ \begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$
Spine Femur Tibia Fibula Patella	Dorsal Lumbar Transverse prod Sacrum Coccyx Upper end Shaft Lower end Upper end Shaft Lower end Upper end Shaft Lower end Astragalus Oscalcis	cesses and	 1 spinous 	processes		$ \begin{array}{r} - \\ 4 \\ 3 \\ 1 \end{array} $ $ \begin{array}{r} 26 \\ 16 \\ 2 \end{array} $ $ \begin{array}{r} 7 \\ 35 \\ 30 \end{array} $ $ \begin{array}{r} 6 \\ 20 \\ 46 \end{array} $ $ \begin{array}{r} 7 \\ 2 \\ 8 \end{array} $

DISLOCATIONS.

(A) Simple :-						
	(Shoulder, inclu	ding ac	eromio ela	vicular		9
Upper Limb	Elbow		****	****		12
	Wrist and han	ds				6
	Hip					_
	Knee	****	****	****	****	1
Lower Limb	Ankle		****			-
	Subastragaloid					_
	(Foot		****	****		_
Jaw						2
Sterno-clavicul	ar joint			****		-
Spine						-
(B) Fracture D	Dislocations :-					
						1247
	(Shoulder, inclu	ding ac	romio cla	vicular		3
Upper Limb	Shoulder, inclu Elbow		romio cla	vicular		4
Upper Limb						
Upper Limb	Elbow Wrist and hand	ds				4
Upper Limb	Elbow Wrist and hand	ds				4
Upper Limb	Elbow Wrist and hand	ds				4
	Elbow Wrist and hand Hip Knee	ds			·····	4 5 —
	Elbow Wrist and hand Hip Knee Ankle	ds				4 5 —
	Elbow Wrist and hand Hip Knee Ankle Subastragaloid Foot	ds				4 5 —
Lower Limb Sterno-clavicul	Elbow Wrist and hand Hip Knee Ankle Subastragaloid Foot	ds				4 5 —
Lower Limb	Elbow Wrist and hand Hip Knee Ankle Subastragaloid Foot ar joint	ds			 	4 5 —
Lower Limb Sterno-clavicul Spine Ligamentous in	Elbow Wrist and hand Hip Knee Ankle Subastragaloid Foot ar joint	ds				4 5 — 1 — — —
Lower Limb Sterno-clavicula Spine Ligamentous in Synovitis	Elbow Wrist and hand Knee Ankle Subastragaloid Foot ar joint	ds				4 5 — 1 — — — — 268
Lower Limb Sterno-clavicula Spine Ligamentous in Synovitis	Elbow Wrist and hand Knee Ankle Subastragaloid Foot ar joint	ds			 	4 5 — 1 — — — — 268 65

ASTHMA CLINIC.

The demands being made on the Asthma Clinic at City Lodge continue to increase. During 1937, 352 new patients attended the clinic, being almost treble the number seen during the first year. The number of attendances during 1937 was 6,085—seven times the number in the first year.

Year.	Number of New Patients.	Number of Attendances.
1935	128	858
1936	294	3,564
1937	352	6.085

This rapid increase in the amount of work has at times severely taxed the facilities

at our disposal.

Approximately 90 per cent. of the new patients attending the clinic were referred by their own private practitioners, and 10 per cent. were referred by medical officers of the Public Health Department. There was also an increase in the number of the new patients who reside outside Cardiff. During 1936, 13.6 per cent. of the new patients lived outside Cardiff; in 1937 the proportion was 15.3 per cent. Many of these patients come long distances for investigation of their condition and for advice on further treatment at home.

The number of patients suffering from asthma who were admitted to Llandough Hospital during 1937 was 77—a decrease of 11 as compared with 1936. This is, of course, understandable, as it is now becoming more generally known that treatment can be obtained at the clinic, and only in certain cases is there need for admission of the patients to hospital.

During 1937 arrangements were made with the Merthyr Tydfil Public Assistance Committee, the Glamorgan Public Assistance Committee, the Mountain Ash Urban District Council and the Carmarthen County County Council for the treatment of cases, the cost being borne by the authorities concerned. Inquiries have also been received from the Breconshire County Council and the British Legion, but no definite arrangements have yet been made.

The method of investigation and treatment remains unchanged. Each patient is investigated with regard to his or her sensitivities, and the treatment advised aims mainly at the complete elimination of these substances from the patient's environment and/or diet. Where this is impossible, desensitization by a course of injections is carried out. Breathing exercises are also taught at the clinic and are found to be of considerable value.

The results of the treatment of asthma by breathing exercises which have been published show that 20 per cent. are clinically cured and another 50 per cent. improved, and if the results are analysed in patients in whom asthma commenced under the age of 10 years, 30 per cent. are clinically cured and 50 per cent. are improved. The facilities at our disposal at the clinic at present leave room for considerable improvement. There is no doubt that properly organized classes for teaching breathing exercises would be of very considerable benefit to children and adults who suffer from asthma. It is also felt that much ill-health could be remedied or avoided if every school child who suffers from asthma could be taught these breathing exercises. Arrangements are now (1938) being made to improve the facilities for breathing exercises on these lines. In the book on *Physical Exercises for Asthma*, published by the Asthma Research Council, it is stated that "having learnt the proper way to breathe, the majority of patients can prevent an attack progressing by doing the exercises; they feel they have a method of relief in their own hands and lose their fear of attacks, thus acquiring confidence—a most important matter for every asthmatic."

During the course of routine investigation at the clinic it has not infrequently been found that the taking of milk made certain children ill. In view of the widespread efforts throughout the country to supply milk to children at school, an investigation has been carried out with a view to finding the percentage that were upset by (allergic to) milk. Eleven hundred and fifty children have been investigated, and it is estimated that 5.5 per cent, of the school children in Cardiff are actually allergic to milk and that 19.1 per cent. are probably allergic to milk. It is also of considerable interest that a true dislike of milk in these children is an indication of an active milk sensitivity or an indication of a past sensitivity. The results indicate that all children cannot take milk with impunity and that those who have an idiosyncrasy to it must avoid it or suffer. The refusal or disinclination of many children to take milk should be given due consideration, as their attitude in many cases is a natural protection against their suffering from allergic reactions. It is known that desensitization to milk, as to other foods, not infrequently occurs as a result of its omission from the diet over a lengthened period, and the degree of tolerance often varies with the interval. Thus, milk should not be forced on such children, but rather withheld from them.

XI.-POOR LAW MEDICAL SERVICE.

A summary of the work of the district medical officers during 1937 is given in the following table:—

Name of District		Whether Whole or Part-time D.M.O.	Attendances of Patients at Surgery	Attendances of Patients at Surgery for Medicine only	Visits to Homes of Patients	Individual Persons dealt with during the Year
Roath		Whole-time	12,423	5,248	7,908	4,169
Central		do.	12,279	6,605	2,073	3,187
Canton	****	Part-time	2,570	14	1,540	836
South		do.	1,517	914	425	488
Splott		do.	2,041	875	1,406	671
Adamsdown		do.	6,651	2,775	1,415	1,052
Gabalfa		do.	1,031	394	672	412
Llanishen	2000	do.	75		167	23
Ely*		do.	1,362	555	809	904
Total		-	39,949	17,380	16,415	11,742

^{*}Separated from Canton district; additional district medical officer commenced duty on 1st April, 1937.

The following tabular statements show the hospital provision and the work undertaken during 1937 in connection with the institutional treatment of the sick at the City Lodge and Ely Lodge Poor Law Institutions.

CITY LODGE.

 Classification of the accommodation for the sick and the number of beds occupied on 31st December, 1937:—

		Beds								
Classification of Wards	Num- ber	Men		Women		Children (under 16 years)		Total		
	of Wards	Pro- vided	Occu- pied	Pro- vided	Occu- pied	Pro- vided	Occu- pied	Pro- vided	Occupied	
Medical Surgical	1 > 0	22	19	34	30	_	_	56	49	
Chronic Sick	00	238	237	123	121	_	_	361	358	
hildren	1	_	-	-	-	42	42	42	42	
Venereal Disease	2 2	10	6	18	12	_	_	28	18	
Tuberculosis Maternity		20	9	20 45	13 22	2	2	42 45	24 22	
Mental Disease	2	4	1	45	22	_		8	1	
Other	4	11	8	10	1	=	=	21	9	
Total	53	305	280	254	199	44	44	603	523	

(2)	In-p	patients:—	
	1.	Total number of admissions (including infants born in hospital)	3,292
	2.	Number of women confined in hospital	475
	3.	Number of live births	439*
	4.	Number of still-births	43
	5.	Number of deaths among the newly born	20
	6.	Total number of deaths among children under one year	21
	7.	Number of maternal deaths among women admitted to hospital for confinement	2
	8.	Total number of deaths	470
	9.	Total number of discharges (including infants born in hospital)	2,822
	10.	Duration of stay of patients included in 8 and 9 above :-	
		(a) Under four weeks	2,351
		(b) Four weeks and under thirteen weeks	624
		(c) Thirteen weeks or more	317
	11.	Number of beds occupied :—	
		(a) Average during the year	510
		(b) Highest	541
		(c) Lowest	464
		*Twins in seven cases.	
(3)	Out	-Patients:—	
	1.	Cases after discharge from this hospital and Llandough Hospital attend for continuation treatment. Casualties after treatment are referred to private practitioners or, if urgent, admitted to this hospital or Llandough Hospital.	
	2.	Total number of persons seen in the out-patient department	3,501
	3.	Number of these persons who were subsequently admitted for in-patient treatment in the institution	160
	4.	Number of these persons who had received in-patient treatment in the institution	53
	5.	Total number of attendances in the out-patient department	13,473

(4) Classification of in-patients who were discharged from or who died in the institution during the year :—

Acute infection function funct	****					Dis- charged	D'	Dis-	
Influenza Fuberculosis Puli	:						1 3 1 75 75	charged	Died
Influenza Fuberculosis Puli	:		****		-	charged	Died	charged	Died
Influenza Fuberculosis Puli	:		****			18		11	
Fuberculosis Pul:	:	****		****	****	1		7	
Puli			****	****	****	-	1000		
Non						2	2	81	38
2101	-pulmonary	****	****		****	8	_	14	7
Malignant di		****	****	****	****	_	_	50	67
Rheumatism		****	.,,,,						
	te rheumatism (rheumat	tic fever)	together	with				
	ib-acute rheuma					2	_	7	
	-articular man			so-called		100		1	
	rheumatism"				bros-				
	is, lumbago and					_	_	8	-
	onic arthritis					_	_	27	-
Venereal dise	ase		****			15	_	59	3
Puerperal py	rexia	****				-	_	1	-
Puerperal fev									
	men confined in	the hos	pital			-	_	15	-
	er cases					_	_	1	_
Other disease	es and accidents	connect	ed with p	oregnancy	and				
	d-birth	****	1111		****	_	_	54	2
Mental diseas	ses:								
Sen	ile dementia	****	****	****		_	_	95	-
Oth	er	****			****	4	_	227	1
Senile decay	****				****	_	_	48	121
Accidental in	jury and violen	ce	****			53	1	229	16
Diseases of the	he:				-			1	2
Ner	vous system and	d sense o	organs		****	15		113	7
	piratory system					13	4	112	21
Circ	ulatory system				****	3	1	178	125
Dig	estive system			****		31	_	51	7
Gen	ito-urinary syst	em				7	-	50	18
Skir	n			****		112	1	77	2
Other disease		****		****		30	18	109	8
Mothers and (not incl	l infants disch uded above) :—	arged fr	rom mat	ternity w	vards				
Mot	hore				3.0			472	_
	ints		****		****	412			_
	alling under an	v of the	above he	adings			_	_	
	and and an	, or the	above me	and a					
	Total					726	27	2,096	443

ELY LODGE.

(1) Classification of the accommodation and the number of beds occupied on 31st December, 1937:-

	Num-	Beds									
Classification of Wards	ber of Wards	Men		Women		Child (under 1		Tot	al		
	warus	Pro- vided	Occu- pied	Pro- vided	Occu- pied	Pro- vided	Occu- pied	Pro- vided	Occu		
Mental Disease MentalDefectives Other	}14{ 4	144 59 20	137 59 19	198 44 9	177 44 9	4 59 —	31 —	346 162 29	318 134 28		
Total	18	223	215	251	230	63	35	537	480		
(2) In-patie											
		of adm							111		
Total 1	number	of deat	hs						62		
Total 1	number	of disch	narges						49		
Durati	on of s	tay of p	atients :	_							
	(a)	Under f	our wee	ks					14		
	(b)	Four we	eks and	under t	hirteen	weeks			14		
	(c)	Thirtee	n weeks	or more					83		
Numbe	er of be	eds occu	pied :—								
	(a)		during	the yea	r				473		
	(b)	Highest							484		
	(c)	Lowest							464		

(3) Classification of in-patients who were discharged from or who died in the institution during the year :-

				Children (under 16 years)		Men and Women			
	Diseas	e Gro	ups		Dis- charged	Died	Dis- charged	Died	
Influenza Tuberculosis :—			·			-	-	-	6
Pulmonary						_		_	-
Non-pulmon	ary	****				_	1	_	-
Malignant disease	9					_	_	-	2
Mental diseases :-						7 18 /		1	200
Senile demen	tia	****				-	-	37	53
			****	****	****	-	-	-	-
Other diseases					****	_	_	12	
Other diseases	Total						1	49	61

XII.—HOSPITAL ACCOMMODATION.

The following tabular statement shows the amount of hospital accommodation for the sick and others in need of special care provided by the City Council and other bodies, classified according to the type of function each subserves:—

Institution				Total available Beds	Approximate Number available for Cardifi
Llandough Hospital		****		345	311
Isolation Hospital				149*	149*
Caerau Smallpox Hospital	****	****		31†	31†
Lord Pontypridd Hospital (Dulwich Ho				25	25
City Lodge Poor Law Institution :-					
Acute Diseases				126	
Maternity				45	
Tuberculosis				42	
Mental Cases				8	
Chronic and Aged Infirm				361	
Other				21	
				603	520
Ely Poor Law Institution :					
Mental Cases (including Mental De	fectives)	****		508	
Chronic and Aged Infirm				29	
				537	452
Mental Hospital				790	690
Total Rate-provide	ed			2,480	2,178
Cardiff Royal Infirmary :-					
General		****	****	380	
Maternity	****		****	25	
Convalescent Home	****	0.0		54	260
Prince of Wales' Hospital :				459	200
Conoral				64	
200		****	****	68	
Country Branch	****	****	****	132	12
Down! Homodown d Conmoute Hearital					74
Royal Hamadryad Seamen's Hospital	****	****	***	74	7.1
Total Voluntary				665	346
Grand Total				3,145	2,524
Sanatoria and Hospitals of the Welsh N	Jational N	Memorial			
Association—Tuberculosis				_	200
Tuber Cuissis	****	1111	2000		

^{*}Total adult accommodation on the basis of 144 sq. ft. per adult bed. This represents about 230 available beds and cots when allowance is made for children under 10 years.

[†]On the basis of 154 sq. ft. per adult bed, representing about 48 available beds when allowance is made for children under 10 years.

The accommodation for chronic and aged infirm in the City Lodge and Ely Institutions and for patients suffering from mental diseases, disorders or defects at Ely Institution fluctuates slightly with requirements. Many of the beds set apart for chronic cases at the City Lodge are really occupied by patients requiring continuous medical or surgical and nursing care. The figures for Ely Institution also include accommodation approved by the Board of Control for mental defectives who are chargeable to the Mental Deficiency Committees of the Authorities responsible for their maintenance.

^{||}For seamen only,

XIII.—TUBERCULOSIS.

New Cases of Tuberculosis.—The following tables show the age distribution and localisation of the disease among new cases of tuberculosis coming to the knowledge of the department during 1937.

Cases of Tuberculosis by Age and Sex :-

				New Cases								
	Age Perio				berculosis of spiratory Sys		Other I	Forms of Tube	erculosis			
				Males	Females	Total	Males	Females	Total			
0-1							,	,	2			
1- 5		****	****	3	9	5	6	9	15			
5-10	****	****		1	3 3	4	9	5	14			
10—15				3	3	6	8	11	19			
15-20				22	12	34	15	9	24			
20-25	****		****	19	35	54	2	- 6	8			
25-35				51	26	77	6	13	19			
35 - 45		****		29	18	47	7	5	12			
15-55		1000	****	22	9	31	4	3	7			
55 - 65			200	21	5	26	2 2	1	3			
65 and u	pwards			1	5	6	2	2	4			
Т	otal			172	118	290	62	65	127			

Cases of Tuberculosis by Localisation of Disease and Sex :-

From of Tohor		New Cases				
Form of Tuber	Males	Females	Total			
Respiratory System				172	118	290
Nervous System				5	10	15
Intestines and Peritoneur				7	6	13
Vertebral Column				9	2	11
Bones and Joints				13	9	22
Disseminated Tuberculosi	e		****	1	1	2
Other Forms				27	37	64
Total		****		234	183	417

Sources of Ascertainment.—The new cases of tuberculosis were ascertained as follows:—

Source			Tuberculosis of Respiratory System	Other Forms of Tuberculosis	Total
General Medical Practitioners			77	19	96
Welsh National Memorial Association		****	147	46	193
Medical Officers of Institutions			46	50	96
Other Medical Officers		****	9	1	10
Otherwise ascertained			11	11	22
Total	****	****	290	127	417

Home Conditions of New Cases.—A detailed analysis is given below showing the living and sleeping conditions within their own tenements of 254 new cases of tuberculosis of the respiratory system that came to the knowledge of the department during 1937.

Living accommodation of 254 patients in private houses at the time of their coming to the knowledge of the department:—

Rooms in Tenement	Patients			Total Number of Persons in Household				
(i.e., house or part of house occupied by one family)	Males	Females	Total	Over 10 years	Under 10 years	Lodgers	Total	
1 room	3	1	4	5	_	_	5	
2 rooms	17	15	32	65	25	_	90	
3 rooms	19	17	36	104	27	_	131	
4 rooms and over	106	76	182	766	133	1	900	
Total	145	109	254	940	185	1	1,126	

In addition to the foregoing 254 cases, there were 7 cases (4 males and 3 females) in institutions and 15 cases (13 males and 2 females) in lodging houses at the time of notification. Information as to the living accommodation of the remaining 14 cases (10 males and 4 females) could not be ascertained for various reasons.

Sleeping accommodation of 254 patients suffering from tuberculosis of the respiratory system and living in private houses at the time of their coming to the knowledge of the department:—

Rooms in Tenement		Patie	ents	Contacts				
(i.e., house or part of house occupied by one family)	With Room to Self	With Bed but not Room to Self	With neither Bed nor Room to Self	Total	Sleeping in same bed as Patient	Sleeping in separate Bed but in same room as Patient	Total	
l room	3	_	1	4	1	_	1	
rooms	4	3	25	32	30	23	53	
rooms	13	4	19	36	22	17	39	
rooms and over	97	17	68	182	75	38	113	
Total	117	24	113*	254	128	78	206	

^{*} Including 83 married persons.

It will be seen that 117, or 46.0 per cent., of the new cases had sleeping rooms to themselves, and that the number of persons exposed to infection by sleeping in the same bedrooms as patients was 206.

Known Cases of Tuberculosis.—Cases of tuberculosis remaining on the register of notifications at the end of 1937 were as follows:—

Tuberculosis of	the Respira	tory S	ystem :-		
Males				667	
Females		****	****	460	
	Total				1,127

Other Forms of Tuberculosis :-

Males			 228
Female	s		 226
	Total		 454
	Grand	l Total	 1,581

The total number of known cases was nine more than that at the end of 1936.

During 1937 the tuberculosis nurses made 399 first visits and 2,140 revisits to the homes of patients.

Deaths.—The numbers of deaths from tuberculosis of the respiratory system and from other forms of tuberculosis during 1937 were 181 and 38, the death-rates per 1,000 being 0.82 and 0.17 respectively. The tuberculosis death-rates per 1,000 in each of the ten years 1928-1937 were as follows:—

Year			Tuberculosis of the Respiratory System	Other Forms of Tuberculosis	All Forms of Tuberculosis
1928			 1 -01	0 -20	1 -21
1929			 1 -14	0.20	1 .34
1930			 0.94	0.21	1.15
1931			 1.06	0.23	1 .29
1932			 1.05	0.21	1 .26
1933		****	 1.05	0.21	1 .26
1934			 0.93	0.22	1.15
1935			 0.97	0.22	1 .19
1936	4111		 0.67	0.18	1.05
1937		7.77	0.82	0.17	0.99

It is satisfactory to note that the death-rates from tuberculosis of the respiratory system and from other forms of tuberculosis in 1937 were the lowest on record.

In the following table the numbers of deaths and death-rates from tuberculosis for each municipal ward and registration sub-district are given:—

Localities	the Re	rculosis of spiratory rstem		er Forms of erculosis		Forms of erculosis
Localities	Deaths	Death-rate per 1,000	Deaths	Death-rate per 1,000	Deaths	Death-rate per 1,000
Adamsdown	21	1 -41	8	0.55	29	1 .99
Cathays	0	0.58	3	0.19	12	0.77
Gabalfa	10	0.49	4	0.20	14	0.69
Central	11	0.94	1	0.08	12	1.02
South	. 8	0 .58	2	0.14	10	0.73
Central Registration Sub-District	. 59	0 .78	18	0 .24	77	1 .02
Plasnewydd	9	0.63		_	9	0.63
Penylan	. 7	0.47	3	0.20	10	0.67
Roath	12	0.79	1	0.07	13	0.86
Splott	. 17	0.80	3	0.14	20	0.94
East Registration Sub-District	45	0.68	7	0.11	52	0 .79
Llandaff	. 6	0.39	2	0.13	8	0.52
Ely	14	0.95	3	0.20	17	1 -15
Canton	. 16	1 .01	1	0.06	17	1 .07
Grangetown	. 18	1 .21	3	0.20	21	1 -41
Riverside	. 21	1 .33	4	0.25	25	1 .58
West Registration Sub-District	75	0.98	13	0.17	88	1.15
Institutions (Place of residence unknown)	2	_	_	_	2	_
Whole City	181	0.82	38	0.17	219	0.99

As usual, the highest death-rates occurred in Adamsdown, where the majority of the foreign and maritime population reside.

The two following tables show the age distribution and localisation of the disease among the deaths from tuberculosis during 1937.

Deaths from Tuberculosis by Age and Sex :-

					De	aths		
Age Pe	eriods—	Years		berculosis of t		Other I	Forms of Tub	erculosis
			Males	Females	Total	Males	Females	Total
0-1	****		 _	_	-	1	1	2
	****		 _		_	4	5	9
5-10	****		 -	_	_	2	2	4
0-15			 1	3	4	_	2	2
5-20			 6	8	14	3	2	5
0-25			 8	18	26	_	3	3
5-35			 23	21	44	2	1	3
5-45	****		 20	13	33	5	_	5
5-55			 24	12	36	3	1	4
5-65			 14	2	16	-		_
55 and upv			 4	4	8	1	-	1
	Total		100	81	181	21	17	38

Deaths from Tuberculosis by Sex and Localisation of Disease :-

Form of Tuberc	uloeie			Deaths	
Form of Tuberc	uiosis		Males -	Females	Total
Respiratory System			 100	81	181
Central Nervous System			 3	11	14
Intestines and Peritoneum			 4	2	6
Vertebral Column		****	6	_	6
Other Bones and Joints			 1		T.
Disseminated Tuberculosis			 5	2	7
Other Forms			 2	2	4
Tota	1		 121	98	219

The number and proportion of cases that died in 1937 that were previously unknown to the department will be seen from the following figures :-

				Total Number		of Cases y unknown
				of Deaths	Number	Percentage
Tuberculosis Other Forms	of the Respiratory of Tuberculosis	System	 	181 38	9 12	4 · 9 31 · 6
	Total		 	219	21	9 · 6

Treatment.—The following tables give particulars of the examination and treatment of Cardiff cases under the scheme of the Welsh National Memorial Association during 1937.

1.-Work of the Dispensary.

			Resp	losis oirato tem		10000		orms			Tot	al		Gran Total
		Ad	ults	Chile	iren	Ad	ults	Chil	dren	Ad	ults	Chi	ldren	Black Control
		M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	
A.—New cases examined during year (excluding contacts) (a) Definitely tuberculous (b) Diagnosis not completed (c) Non-tuberculous	:	133	89	3 _	5 —	16 	20 _	13 _	_	149 36 199	109 35 187	16 18 52	15 8 70	289 97 508
B.—Contacts examined during year:— (a) Definitely tuberculous (b) Diagnosis not completed (c) Non-tuberculous		2 _	1 _	1 _	=		=			2 	1 4 45	1 8 20		4 18 110
C.—Cases written off the Dispary Register as:— (a) Recovered (b) Non-tuberculous (included cases previously diagnosand entered on the pensary Register as tu culous)	ding osed Dis-	6	7	-	1 -	2	9	18	12	8 226	16	18	13	55 670
D.—Number of cases on Dispension Register on December 31 (a) Definitely tuberculous (b) Diagnosis not completed	st:	414	275	23	32	73	78 —	64	68	487	353 44	87 33	100 25	1,027 143

			00			
1. Nur	nber of cases o	n Dispensar	y Register o	n January 1	st	1,112
2. Nur	nber of cases after discharge	transferred under head	from other l 3 in previo	areas and c	ases returne	00
3. Nur	nber of cases tr assistance und	ransferred to	other areas.	cases not de	siring furthe	111
	es written off d					
	nber of attenda					
6. Nur	nber of Insured		der Domicili	ary Treatme	nt on Decen	1-
7. Nun	nber of consult	ations with	medical pra	ctitioners :-	4	
	(a) Personal					. 284
	(b) Other					
o. Null	nber of visits personal consu	ltations)	· · · · · · · · · · · · · · · · · · ·	ers to nom	es (includin	0.40
9. Nun	nber of visits	by Nurses of	or Health V	isitors to ho	omes for Dis	;-
	pensary purpos	ses				. 1,848
	nber of :— (a) Specimens	of sputum of	vaminad in	connection	with Diepon	
	sary wo	rk		connection	with Dispen	. 512
	sary wo					
11 Nun	work aber of " Reco				Poristor on	
	included in A					
12. Nun	aber of "T.B.	plus " cases				
	31st					. 514
	2	.—RESIDEN	TIAL TREAT	MENT.		
		In Institutions on Jan. 1st	Admitted during the year	Discharged during the year	Died in Institutions	In Institutions on Dec. 31st
Number of	Adult males	2	11	12	_	1
Number of doubtfully tuberculous	Adult females	1	11	10		2
ses admitted r observation	Children	1	6	5	-	2
1 observation	Total	4	28	27	_	5
Number of	Adult males	88	219	157	47	103
Number of patients	Adult females	67	128	102	33	60
ffering from Tuberculosis	Children	10	12	11	1	10
the Respira- ory System	Total	165	359	270	81	173

Adult males

Total

Adult females

Number of

patients suffering from Other Forms of Tuberculosis

Grand Total

3.—Results of Observation of Doubtfully Tuberculous Cases Discharged from Residential Institutions.

Diagnosis on				P	ulm	ona	гу С	ases						Nor	-Pu	lmo	nar		1		
Discharge		Sa	anat	oriu	m				Hos	pita	al			NOL	Cas		nai,	,	Т	ota	
Observation		y ur wee				ver		y ui	nder		wee			y ui wee	nder		wee				
	M	F.	Ch	M.	F	Ch	M.	F.	Ch.	M.	F.	Ch.	M.	F	Ch.	M.	F.	Ch	M.	F.	Ch.
Tuberculous	 1	_	_	_	1	-	1	1	_	3	3	-	1	1	1	_	_	1	6	6	2
Non-Tuberculous	 -	-	_	_	_	-	1	_	_	1	_	2	_		-	3	2	-	5	2	2
Doubtful	 	_	_	_		_	1	-	_		2	1	_	_	_	_	-	-	1	2	1
Total	 1	_	_	_	1	-	3	1	_	4	5	3	1	1	1	3	2	1	12	10	5

4.—Immediate Results of Treatment of Definitely Tuberculous Patients Discharged from Residential Institutions.

(a) Sanatorium (Pulmonary Cases).

					Du	ratio	n of	Resid	entia	l Tre	atme	nt			
	Condition at time of Discharge			Inder		1	3-6 month	ıs	6-12 months			Mc 12	an	Total	
			М.	F.	Ch.	M.	F.	Ch	M.	F.	Ch.	M.	F.	Ch.	
Quiescent			_	_	_	_	10	_	_	1	3	-	-	-	14
Not Quiescent			11	1	_	7	8	1	8	5	-	10	-	-	51
Died			-	-	-	-	-	-	-	-	-	-	-	-	-
Total			11	1	_	7	18	1	8	6	3	10	_	_	65

(b) Hospital (Pulmonary Cases).

					D	uratio	on of	Resid	denti	al Tr	eatm	ent			
	Condition at time of Discharge			Unde		1	3-6 months		6-12 months		0.707	ore the		Total	
			М.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	M.	F.	Ch.	
Quiescent			-	1	-	1	2	_	_	1	1	-	-	-	6
Not Quiescent			29	19	2	35	19	-	33	19	3	10	10	1	180
Died			13	13	-	13	10	-	7	3	-	2	1	-	62
To	otal		42	33	2	49	31	-	40	23	4	12	11	1	248

^{*}Patients whose stay in residential institutions has not exceeded 28 days are not included.

(c) Hospital (Non-Pulmonary Cases).

					Du	ratio	n of	Resid	entia	l Tre	atme	nt			
	Condition at time of Discharge				3 hs*	3-6 months		ıs	6-12 months				ore the	Total	
			М.	F.	Ch:	M.	F.	Ch.	М.	F.	Ch.	М.	F.	Ch.	
Quiescent	****		1	_	_	-	_	-	-	1	4	1	1	4	12
Not Quiescent		****	4	3	5	7	1	5	1	2	2	2	-	2	34
Died	****		1	-	1	-	-	-	-	-		2	-	1	5
Tota	i		6	3	6	7	1	5	1	3	6	5	1	7	51

^{*}Patients whose stay in residential institutions has not exceeded 28 days are not included.

XIV.—VENEREAL DISEASES.

The following is a summary of the returns for 1937 from treatment centres established under the Public Health (Venereal Diseases) Regulations, 1916:—

		Cardiff Royal Infirmary	Royal Hamadryad Seamen's Hospital*	Auxiliary Centre for Mothers and Children	Institution outside Cardiff	Total
Α.	Number of persons residing in Cardiff dealt with during the year for the first time and found to be suffering from :— Syphilis	92 2 230 118	109 113 346 32	13 120 62		214 117 700 215
	Total	442	600	195	9	1,246
3.	Number of attendances of all patients residing in Cardiff	14,962	9,944	2,879	40	27,825
	Aggregate number of "in-patient days" of all patients residing in Cardiff	-	2,407	-	105	2,512

Examination during 1937 of pathological material from patients residing in Cardiff and patients at institutions in or belonging to Cardiff:—

	Micro	scopical	Se	rum Tests	3
	Spiro- chetes	Gono- cocci	Wasser- mann	Others for Syphilis	For Gonor- rhoea
Specimens examined at Treatment Centres:— Cardiff Royal Infirmary Royal Hamadryad Seamen's Hospital*	35	554 114	563	2 -	=
Specimens examined at the Cardiff and County Public Health Laboratory from:— Treatment Centres:— Royal Hamadryad Seamen's Hospital* Auxiliary Centre for Mothers and Children Public Health Department Other sources		237 2 254 —— 493	208 87 1,309 1,828 —— 3,432	===	- 1 - 85 - 86
Total	37	1,161	3,995	2	86

During the year, 971 doses of arsenobenzene compounds were supplied in 65 instances to 20 individual private medical practitioners.

^{*}The figures relate to seamen only, whether residents of Cardiff or not.

The following table shows the numbers of all persons dealt with for the first time at the Cardiff treatment centres during each of the years 1928-1937*:—

77		Syl	philis	Sof Char		Gono	rrhoea	other	than ereal		Total	
Year		М.	F.	М.	F.	M.	F.	M.	F.	М.	F.	Bot1 Sexe
1928	****	397	162	89	4	728	178	247	142	1,461	486	1,94
1929	****	407	130	102	4	697	178	212	163	1,418	475	1,89
1930 1931	****	388 360	118	91	_	730 510	161 157	187 179	153 141	1,413 1,140	432	1,84
1932	****	327	114	104		585	146	163	135	1,179	395	1,57
1933	****	378	88	92	_	577	140	175	125	1,222	343	1,56
1934	*****	291	94	93		656	131	154	115	1,194	340	1,53
1935		323	88	87	_	609	136	136	96	1,155	320	1,47
1936		291	97	104	_	669	167	165	80	1,229	344	1,57
1937		290	60	123	-	696	177	168	77	1,277	314	1,59

The following table gives the results of treatment and other particulars regarding all persons dealt with at the Cardiff treatment centres during 1937:—

	Syp	hilis	So		Gon	or- oea	Condi other Vene	than		Total	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	Both Sexes
Number of cases under treatment or observation on 1st January		330	8	_	243	177	14	6	449	513	962
Number of cases dealt with for the first time*	290	60	123		696	177	168	77	1,277	314	1,591
Number of cases discharged after comple- tion of treatment and final tests of cure	48	17	73	_	212	38	154	62	487	117	604
Number of cases which ceased to attend before completion of treatment		36	17	_	241	43	_	_	421	79	500
Number of cases which ceased to attend after completion of treatment but before final test of cure		7	4	_	154	10	_	_	210	17	227
Number of cases transferred to other centres or to institutions, or to care of private practitioners		4	26	_	124	10	_	_	198	14	212
Number of cases remaining under treatment or observation on 31st December	163	326	11	-	208	253	28	21	410	600	1,010

^{*} Including cases that returned after being removed from the registers and cases transferred from other centres.

XV.-MATERNITY AND CHILD WELFARE.

Notification of Births and Still-births.—The following statement shows the number of births and still-births notified as having occurred in Cardiff during 1937:—

	Births.	Still-births.
Medical Practitioners	25	
Municipal Midwives	490*	15*
Midwives of Queen's Institute of District Nursing	485	14
Private Midwives	1,882	70
Parents	1	
Maternity Hospital (Cardiff Royal Infirmary)	468	67
City Lodge Hospital	447	46
Total	3,798 †	212 ‡

^{*} Municipal midwifery service commenced 30th July, 1937.

Child Welfare Centres.—The following is a record of the attendances at the 10 child welfare centres:—

Number	Children	under 1 year	Children 1	year to 5 years	Total	Average Attendance at each Session
Of Sessions		Subsequent	First	Subsequent	Total	
708	2,204	24,557	334	16,077	43,172	61

The total number of children who attended at the centres during the year was as follows:—

Children under 1 year at the end of the year	2,442
Children between 1 year and 5 years at the end of the year	3,287
Total	5,729

The following tabular statement shows the conditions found by medical officers in 2,207 infants under one year and 308 children between one and five years who were examined for the first time during 1937 and the diseases or defects discovered subsequent to first examination:—

[†] Including 413 not belonging to Cardiff.

^{‡ ,, 58 ,, ,, ,, ,,}

			Exami first t			
			Under 1 year	1 to 5 years	Under 1 year	1 to 5 years
umber examined :						
Normal			1,513	78	_	_
Individual cases found with Diseases	or Defect	s	694	230	_	_
iseases or Defects found :-						
Injury at Birth	****	****	4	-		10
Congenital Malformation or Defect	****		66	5	22 8	19
Prematurity	****	****	53 38			5
Congenital Debility	****	****	99		19	9
Malnutrition (cause not specified) or Debility (not congenital)			99	35	6	7
*	****	*****	27	16	100	65
Diseases or Defects of :—	****	****	21	10	100	00
Skin (Non-syphilitic):						
Caretamia			25	6	151	155
Contagious		****	12	22	109	216
Tweitating	****	****	63	13	282	161
Eye: Ophthalmia Neonatorum	****	****	26	10	14	20
Canint		****	5	11	12	41
Other	****	****	25	7	128	66
Ear : Otorrhoea	****		11	5	177	126
Other	****	****	9	_	37	47
Nose and Throat :	****					1000
Enlarged Tonsils and/or A	denoids	***	3	17	26	151
Other			18	8	85	119
Heart and Circulation: Congenital	****	****	5	_	6	6
Rheumatic	****	****	_	_	_	_
Other			2	1	15	72
Respiratory System (non-tuberculous)	****		35	14	599	428
Digestive System : Hernia-Umbilical			90 .	5	54	30
Other			19	4	41	2
Other Diseases			89	17	783	301
Nervous System : Chorea	****		_		_	_
Other	****	***	2	10	23	40
Genito-urinary System: Phimosis		***	67	12	38	24
Other			3	-	45	56
Tuberculosis: Pulmonary	****	***				12
Definite	****		-	_	_	1
Suspected	****		-	-	1	5
Non-Pulmonary			-	5	2	21
Defective Teeth	****	****	2	64	22	212
Rickets	****	****	1	12	26	67
Other Deformities		****	16	6	25	119
Rheumatism (not Cardiac or Nervous)			1	_		8
Syphilis				_	5	1
Other Diseases or Defects		****	20	9	38	157

Ante-natal and Post-natal Clinics.—The record of attendances at the six ante-natal clinics is given in the following statement:—

Number		Average Attendance					
of Sessions	Expecta	ant Mothers	Post-na	atal Cases	Total	at each Session	
Sessions	First	Subsequent	First	Subsequent	Total		
420	1,969	6,370	32	7	8,378	20	

In the following table the number of notified births (live and still) belonging to Cardiff and the number of expectant mothers who attended the ante-natal clinics for the first time during each of the years 1932 to 1937 are given:—

		1932	1933	1934	1935	1936	1937
(a)	Total number of notified births (live and still)	3,754	3,576	3,632	3,519	3,568	3,539
(b)	Number of expectant mothers who attended the ante-natal clinics	1,466	1,418	1,669	1,627	1,794	1,969
(c)	Percentage of notified births represented by (b)	39 .0	39 -6	45.9	46 .2	50 .2	55 -6

An analysis regarding 1,769 expectant mothers who attended the ante-natal clinics for the first time during 1937 and who were confined during 1937 is given below.

Miscarriages occurred in 20 instances and still-births in 22. Six of the women died from puerperal causes. Twin births occurred in 16 instances.

Type of case:	_			
Primipara		 	****	 612
Multipara		 		 1,157
		Т	otal	 1,769

Of these 1,769 women, 783 were found to be suffering from 1,021 diseases, abnormalities or defects, as follows:—

Abnormalities o	f tha	thursid als	nd			12
Albuminuria	i the	thyroid gia	nu	****	****	96
	****			2000	****	
Anaemia				****	****	52
Conditions requ	iring		section	****	****	2
		version				45
Contracted pelv	18			****		29
Debility			****	****		5
Dental defects r	equir	ring treatme	ent		****	349
Foetal abnorma	lity					1
Haemorrhage			****			53
Haemorrhoids						8
Heart condition	S					11
Hydrometra						11
Malnutrition						4
Oedema			****			103
Phlebitis						4
Pyelitis						3
Respiratory disc						8
Skin diseases			****	****	****	7
Vaginal dischar	ore.		****	****		142
Varicose veins		****	****	****		59
	****		****	****	****	13
Vomiting	****	****	****	****		4
Other diseases		****		****	****	4
			T	4-1		1.001
			10	otal		1,021

Place of confinemer Private dwellin Maternity Hos	g house		val Infirm	nary)	****	903 353
City Lodge Ho Private Matern	spital					400 28
Outside Cardiff						55
Not traced	****	****		***		30
			Tota	al	2000	1,769

Since June, 1925, pregnant women attending the ante-natal clinics have been subjected to a blood test for syphilis, namely, the Wassermann reaction. During 1937 the number of tests made was 1,298, of which 13, or 1.0 per cent., were found to be positive. From June, 1925, to the end of 1936 the number of tests made was 10,369, of which 223, or 2.1 per cent. were positive. During the first three-and-a-half years, i.e., from June, 1925, to the end of 1928, the percentage found positive was 3.1. There has therefore been a definite and satisfactory decline in the number of expectant mothers found to be suffering from syphilis. Expectant mothers found to be suffering from the disease are referred for treatment to the special treatment centre for mothers and children, which is conducted in close co-operation with the maternity and child welfare section of the department.

The following is a record of attendances at the special post-natal clinic :-

Number of		ATTENDANCES.	Average Attendance at each Session	
Sessions First	Subsequent	Total		
43	178	34	212	5

An analysis of 210 post-natal cases dealt with (including cases dealt with at antenatal clinics) is given below.

Type of case :—						
Primipara						110
Multipara					****	100
						-
			Total		****	210
D						
Pregnancy:— Normal						178
	****			****		
Abnormal	****			****		32
			Total			210
Labour :-						101
Normal				****		191
Abnormal		****		****		19
			Total	****		210
D						
Puerperium :-						000
Normal	****	****		****	****	208
Abnormal	****		****	****		2
			Total			210

Of these 210 cases, 77 were found to be suffering from 100 diseases, abnormalities or defects, as follows:—

	3
	4
perineum	5
	15
	23
	2
	47
	1
Total	100

Maternity Hospitals.—The number of expectant mothers admitted to the Maternity Hospital (Cardiff Royal Infirmary) was as follows:—

Complicated cases sent by General Practition	oners	 40
Cases admitted through Ante-natal Clinics		 342
Total		 382

Expectant mothers are also admitted through ante-natal clinics to the City Lodge Hospital for confinement, the Health Committee being responsible for the net cost of their maintenance. The number of cases admitted to the institution under this arrangement during the year was 328.

Maternity and Nursing Homes.—At 31st December, 1937, there were 19 registered nursing homes, 11 providing for maternity cases only, 5 providing for surgical and/or medical cases only, and 3 providing for both maternity and other cases. The total number of beds in these nursing homes was 153, of which 80 were available for maternity cases. The number of visits of inspection paid by a medical officer of the department to the homes during the year was 24.

Extra-Domiciliary Confinement.—The number and proportion of births and still-births belonging to Cardiff and registered in Cardiff as having occurred away from private dwelling-houses during 1937 are given below:—

Place of Birth	Number	Number per 1,000 Total Births
Maternity Hospital (Cardiff Royal Infirmary)	355	100
City Lodge Hospital	436	123
Private Nursing and/or Maternity Homes	361	102
Total	1,152	325

Dental Clinics.—The following is a record of the work carried out at the dental clinics in connection with maternity and child welfare:—

					Mothers	Children	Totals
					000	200	
Inspected	****	****	****	****	323	263	586
Treated		****	****	****	299	240	539
Attendances :-						0.000	100000
For inspection	****		****		335	263	598
For treatment	****	****	****		1,343	285	1,628
Teeth extracted			****		2,911	902	3,813
Teeth filled	****	****			4	9	13
Dressings	****	****			14	3	17
Scalings					22		22
Anaesthetics administer		****				333	
General					454	275	729
T1		****	****	****	47	2.0	47
Supplied with dentures	****	****		****	185		185
Destruction with dentures		*****	****	****	100		100
Dentures supplied :-					100		100
Full upper	****	****	****		160	_	160
Partial upper	****	*****	****	****	12	_	12
Full lower	****	****	****		124	-	124
Partial lower	****	****	****		17	_	17

Domiciliary Visits by Health Visitors.—The following is a summary of the visits made by the health visitors:—

Births—First visits				2,999					
Births and infant deaths-Com	bined visits			32					
Infant death investigations				190					
Still-birth investigations				137					
Subsequent visits	Infants und	er one y	ear	5,939					
Subsequent visits	{Infants und Children ov	er one y	ear	8,415					
Ante-natal cases	First visits Re-visits			83					
inte-natal cases	Re-visits			69					
Infectious Diseases :—									
Onlithalmia	First visits			40					
Ophthalmia neonatorum	{First visits			52					
Puerperal fever	····{First visits Re-visits		****	10					
•	Re-visits			_					
Measles	{First visits			2,127					
				43					
Whooping cough	{First visits		****	242					
				6					
Mumps	{First visits			152					
T'	Re-visits			2					
Financial inquiries				832					
Other visits				6,973					
	Total			28,343					

Milk for Mothers and Infants.—Milk was supplied free of charge in necessitous cases and on medical certificates to the following extent:—

	Tube	erculin Tested	Milk	Dried Milk			
	Persons supplied with Milk	Applica- tions for a month's supply	Pints granted	Persons supplied with Milk	Applica- tions for a month's supply	Pounds granted	
Expectant Mothers	260	593	18,032	129	209	1,254	
Nursing Mothers	480	1,837	55,833	1	2	12	
Children under 1 year	149	1,294	39,315	371	1,496	8,976	
Children 1 yr to 5 yrs	382	4,250	129,357	6	55	330	
Total	1,271	7,974	242,537	507	1,762	10,572	

Midwives.—The number of midwives practising in Cardiff at the end of the year was 102. They are classified as follows:—

According to qualifications:— Bona fide Certificate of Central Midwives Board		 3 99
Total		 102
According to type of practice :—		
Municipal midwifery service (domiciliary)		 18
Queen's Institute of District Nursing		 8
At City Lodge Hospital (Maternity Wards)		 9
At Cardiff Royal Infirmary (Maternity Bran	ch)	 6
At private nursing homes		 22
Private practice		 39
Total		 102

Officers of the department made 118 visits of inspection of midwives, and midwives' appliances, etc., were disinfected in three instances.

The following is a record of the practice of midwives in Cardiff during the year in relation to the births which were the subject of visits by the health visitors:—

Attendances at births by midwives* as ascertained by h	ealth vis	itors :—
(a) Alone		1,277
(b) With a medical practitioner:—		
(i) Medical practitioner engaged		488
(ii) Medical practitioner called in emergency		639
Attendances at still-births by midwives*:— (a) Alone (b) With a medical practitioner:— (i) Medical practitioner engaged		40 26
(ii) Medical practitioner called in emergency		37
(ii) medical practitioner canca in emergency		

^{*}Other than those engaged in midwifery at Cardiff Royal Infirmary and City Lodge Hospital.

The municipal midwifery service established under the provisions of the Midwives Act, 1936, was fully described in the report for 1936. The scheme, which came into operation on 30th July, 1937, has worked satisfactorily, and it has not been necessary to make any alteration in the original arrangements.

To the end of 1937, 15 midwives surrendered their certificates under section 5 (1) of the Act of 1936. The total amount of compensation paid to these midwives was

£1,718 7s. 8d.

Medical Practitioners called in by Midwives in Emergency.—During the year the number of instances in which medical practitioners were called in by midwives in emergency was 1,171, and claims for fees were made by practitioners in 941 cases. The fees claimed totalled £1,410 17s. 6d., and in 245 instances fees amounting to £315 13s. 11d., were reclaimed from the persons responsible. The sum actually recovered during the year was £211 17s. 4d.

The following statement gives the reasons for medical help being summoned by midwives. :—

wives. :-							
	THER :-						
(a)	Pregnancy—						
	Miscarriage (includ	ing abortic	on)		****	117	
	Haemorrhage		****	****		14	
	Albuminuria and o	edema and	dother	toxic cau	ses	56	
	Other causes					31	
							218
(b)	Labour—						
	Abnormal presenta					32	
	Premature labour					22	
	Obstructed and del	ayed labor	ur	****		325	
	Placenta praevia,	ante-part	um hea	morrhage	and		
	eclampsia, and	other tox	ic caus	es		66	
	Post-partum haen	norrhage	and re	etained a	nd		
	adherent place	nta	,		****	32	
	Ruptured perineun	1				165	
	Other causes					34	
							676
(c)	Lying-in-				,		
	Pyrexia, secondary				e and	45	
	phlegmasia and	d other se	ptic cau	ises	2000		
	Other causes	****	****	****	****	39	84
(2) INF.	ANT—						04
	bility					43	
	lammation of or discha					60	
	ner causes	-			****	90	
Ott	iei causes		****	3444	****		193
						_	
		Tot	al		****		1,171
						-	-

Puerperal Fever and Puerperal Pyrexia.—Statistics regarding cases of puerperal fever and puerperal pyrexia notified during the year are given in the section dealing with notifiable diseases (page 13), but as the work involved comes within the province of maternity and child welfare it is referred to here. Eighty-eight cases of puerperal fever and puerperal pyrexia were notified. General practitioners sought the assistance of the department in several cases, and two specialist consultations took place.

Home Nursing.—The following is a record of the work done by the Queen's Institute of District Nursing for the maternity and child welfare section of the department:—

Disease of Defect	Cases carried over from 1936		Cases referred for Treatment during 1937		Total	
	Cases	Visits	Cases	Visits	Cases	Visits
Skin :—Impetigo	3	50	56	986	59	1,036
Other Skin Diseases Eye:—Ophthalmia and Oph-	-	-	22	280	22	280
thalmia Neonatorum	3	87	26	970	29	1,057
Other Eye Defects	5	76	72	1,393	77	1,469
Minor Ear Defects	6	152	31	818	37	970
Miscellaneous	3	16	96	1,074	99	1,090
Total	20	381	303	5,521	323	5,902

Maternity Bags.—Maternity bags were lent by the department in 20 necessitous cases.

Home Helps.—Home helps were provided by the department in 223 instances in which mothers confined at home were without adequate domestic help and without means of obtaining it.

Crippling Defects and Orthopaedics.—The following is a summary of the work carried out at the orthopaedic clinic during 1937:—

	Children under
Consultation Clinic :—	School Age.
Examined for first time	189
Recommended for treatment and/or appliances for for first time	99
Recommended for further treatment and/or appliar	nces 104
Recommendations for :-	
Treatment in Hospital	24
Treatment at Clinic (Special and Routine)	73
Application of plaster at Accident Unit	29
Appliances	24
Special boots	1
Alterations to boots	69
Other forms of treatment	7
Treated at Clinic for first time	24
Attendances at Clinic	661
Routine Treatment (massage, electricity, exercises, etc.) :—	
Treated at Clinic for first time	75
Attendances for routine treatment	1,427

The following statement relates to treatment at and provision of appliances, etc., through the Prince of Wales' Hospital, Cardiff, during 1937:—

Hospital Treatment—				(Children under School Age.
Admitted to Prince of	of Wales'	Hospital	:		
(a) Day cases			****		2
(b) Other cases					17
Under treatment at end of 1937		of Wales'	Hospital	at	10
On Prince of Wales' I (a) Day cases		waiting lis	st at end o	of 193	7:-
(b) Other cases			****		4
Other treatment or provision following hospi			ces, etc., 1	provia	led .
Appliances provided	****				21
Appliances altered					4
Alterations to boots			****	****	49
Application of plaste	r				46
Other forms of treatr	ment pro	vided		****	31

The diseases or defects found in children examined for the first time during the year have been classified as follows:—

Diseases or D	efects.			Number.
Flat feet				 21
Bow legs			****	 33
Talipes				 29
Poliomyelitis				 1
Rickets				 8
Spastic paralysi	is		****	 5
Birth palsy				 4
Congenital malf	formation or	deformit	y	 4
Congenital dislo				 1
Torticollis				 10
Knock knee				 18
Metatarsus varu	as and intoe	ing		 18
Coxa vara				 1
Trauma				 7
Other defects				 29
	Т	otal		 189

The following is a classification of the cases discharged during the year :-

Rea	son.					Number.
Cured						115
Improved					****	14
Unlikely to	benefi	t further				1
Left the di	strict					5
Failed to a	ttend f	or treatme	ent	****		16
Other reas	ons (inc	cluding triv	vial defe	cts)		33
		an an				
		To	otal			184

Nose and Throat Defects.—The following is a summary of the work done in connection with the treatment of children under school age suffering from enlarged tonsils and/or adenoids:—

Examined at Clinic for first time	 133
Received operative treatment at Llandough Hospital	 12
Received other forms of treatment at Clinic	 32
Total attendances at Clinic	 245

Visual Defects.—The following statement summarises the work done in connection with the examination of visual defects in children under school age:—

Attended	Clinic for first time			69
Examined	for errors of refraction	****	****	37
For whom	spectacles were prescribed			35
For whom	spectacles were provided :-			
(a)	By parents			19
(b)	By Council free of charge			14
Treatment	for other eye defects prescrib	ed and pro	vided	22
Total atte	ndances at Clinic			171

Measles.—The hospital treatment of cases of measles under five years of age is undertaken as part of the maternity and child welfare scheme of the Council. Particulars as to the cases admitted to hospital during 1937 are contained in the report on the Isolation Hospital (page 21).

Venereal Diseases.—Tabular statements relating to the work of the special treatment centre for mothers and children are included in the section dealing with venereal diseases (page 62).

Radiography.—The number of individual cases referred from the maternity and child welfare centres for radiography was 118, the total number of radiograms taken being 161. The parts of the body that required X-ray examination in the 118 cases were as follows:—

Wrist	 	 	123
Shoulder	 	 	2
Hip	 	 	15
Thigh	 	 	1
Knee	 ****	 	2
Leg	 	 	1
Foot	 	 	2
Spine	 	 ****	7
	Total	 	153

Artificial Sunlight Treatment.—The number of children under five years of age treated by artificial sunlight for the first time and their ailments are shown in the following table:—

D	iseases.					Children.
Debility					 	12
Nervous	debility a	nd/or ma	Inutrition		 	4
Rickets					 	38
			Tota	al	 	54

The total number of attendances of children for treatment was 648. Thirty-two expectant mothers also received treatment for the first time, the total number of attendances being 232.

Child Life Protection.—The following statement gives particulars of the numbers of persons and children registered at the end of 1937 and visits by the visitor specially engaged in this work during the year:—

Persons on the reg			
year	****		 66
Children on the re	gister :-	-	
(a) At the end	of the ye	ear	 73
(b) Who died of	during th	e year	 -
First visits			 7
Routine visits			 625
Special visits			 145

Adoption of Children Act, 1926.—The visitor specially engaged in duties in connection with child life protection dealt with 25 cases during the year in which the Council acted as guardian ad litem.

XVI.—PUBLIC HEALTH LABORATORY.

Cardiff and County Public Health Laboratory.—The numbers of specimens and samples examined for Cardiff during 1937 were as follows:—

Bacteriological Examinations :—					
Water Supplies					326
Milks for Tubercle Bacilli					273
Milks for General Examina	tion				1,032
Ice Creams for General Exa	amination				96
Sputa for Tubercle Bacilli					912
Urines for Tubercle Bacilli					13
Other specimens for Tubero	le Bacilli				52
Rodents for Plague					441
Specimens for :—					
Diphtheria					3,969
Enteric Fever (Serum)		****		****	132
Enteric Fever (Other S					275
D		,		****	188
Food Poisoning Organi					46
6 1					583
Syphilis (Wassermann					3,432
Syphilis (Spirochaeta I					2
Ringworm					2
Cerebro-Spinal Fluids					25
Other Examinations					104
Chemical Examinations :—					
Water Supplies					248
Milks and Milk Products					82
T C					96
In connection with Atmosp	heric Pol	lution	****		41
In connection with Ultra-V					382
Other Examinations	Tolet Rad	ation		****	4
Other Examinations	****		****	****	
	Total				12,756

The numbers of specimens examined for suspected disease in patients resident in Cardiff, together with the results, are shown below :—

Suspected Disease	Positive Results	Negative Results	Total	Percentage of Positive Results
Diphtheria	590	3,379	3,969	14.9
Enteric Fever	67	340	407	16 -4
Tuberculosis	231	746	977	23.6
Gonorrhoea	102	481	583	17.5
Syphilis—				
Wassermann Reaction	450	2,982	3,432	13 -1
Spirochaeta Pallida	_	2	2	

XVII.-FOOD INSPECTION.

Meat Inspection at Municipal Abattoirs.—The following tables set out in detail the work done in connection with meat inspection during the year.

Animals slaughtered and whole carcases found diseased which were surrendered and destroyed or otherwise dealt with by arrangement with the owners:—

			ROATH ABATTOIR		CANTON .	ABATTOIR	TOTAL	
			Slaughtered	Diseased or unsound and destroyed	Slaughtered	Diseased or unsound and destroyed	Slaughtered	Diseased or unsound and destroyed
Bulls		****	 36	1	37	1	73	2
Cows		****	 572	27	619	31	1,191	2 58
Heifers	****		 2,627	12	728	7	3,355	19
Steers	****	****	 1,766	6	383	_	2,149	6
Calves	****		 5,962	7	1,102	14	7,064	21
Sheep and	lambs	****	 28,836	27	15,873	108	44,709	135
Pigs	****		 21,824	70	7,123	66	28,947	136
A TOP TO	Total		 61,623	150	25,865	227	87,488	377

Instances in which tuberculosis was found:-

			ROATH .	ABATTOIR	CANTON	ABATTOIR	TOTAL	
			Number	Percentage	Number	Percentage	Number	Percentage
Cattle:—								
Bulls			. 17	47.2	14	37 .8	31	42.4
Cows	****		249	43.5	254	41.0	503	42.2
Heifers	****		190	7.2	97	13.3	287	8.5
Steers			71	4.0	42	10.9	113	5 .2
Calves		****	12	0.2	10	0.9	22	0.3
Al	l Cattle		539	4 .9	417	14 .5	956	6 .9
Pigs			539	2.5	300	4.2	839	2.9

Causes of destruction of carcases :-

Cause		Beef	Veal	Mutton and Lamb	Pork	Total
Tuberculosis Dropsy		72	8	-4	117	197
Emaciation		3	1	7	2	13
Dropsy and emaciation	****	6	_	109	5	120
Moribund		_	_	2	_	2
Decomposition Other causes	****		10	2	11	38
other causes	****	4	12	11	11	35
Total		85	21	135	136	377

Approximate weight of diseased or unsound meat surrendered and destroyed or otherwise dealt with by arrangement with the owners:—

Carcases of—				Tons	cwt.	lb.
Beef			****	 23	14	58
Veal	****	****		 _	10	91
Mutton and	lamb			 2	3	54
Pork			****	 5	8	11
Part carcases of-	_					
Beef				 4	0	67
Veal				 -	_	19
Mutton and	lamb			 	_	72
Pork				 2	3	76
Offal of—						
Beasts				 26	19	6
Calves				 _	3	31
Sheep and I	ambs			 2	9	102
Pigs				 3	18	50
			Total	 71	12	77

Meat Inspection at Private Slaughter-houses.—The numbers of animals slaughtered were as follows:—

	and la	mbs		 	 282
Pigs	****	****		 	 3,099
			Total	 	 3,381

Tuberculosis was found in carcases of pork in 258 instances, the proportion being 8.3 per cent. Twenty-four unsound carcases of pork were destroyed, the cause in 21 instances being tuberculosis; in the other three instances the causes were emaciation (two) and abscesses with fever (one).

The total weight of unsound meat surrendered at private slaughter-houses and

destroyed by arrangement with the owners was 2 tons 18 cwt. 78 lb.

Unsound Food Exposed or Intended for Sale.—The following is a record of the work done by the sanitary inspectors in connection with inspection of food exposed or intended for sale during the year:—

Number of Inspections

among the James	INun	nver of Inspec	ti
Retail butchers' shops		2,906	
Wholesale meat shops and stores		636	
Butchers' food preparation premises		371	
Provision shops and stores (wholesale	and		
retail)		476	
Butter and margarine factories		78	
Wholesale margarine dealers		83	
Food stalls		381	
Food vehicles and hawkers' stores		330	
Ice cream premises and barrows		566	
Restaurants		290	
Greengrocery and fruit shops and st	ores		
(wholesale and retail)		665	
Fish shops and stores (wholesale and re	etail)	258	
Fried fish shops		422	
Markets		206	
Hospitals and institutions		6	
Railway stations		1	
Other registered food premises		60	
Other premises		56	
Total		7.791	

One hundred and forty-nine notices were served for the remedy of insanitary conditions in food premises, of which 120 were complied with.

Approximate weight of diseased or unsound food found in shops and stores and destroyed or disposed of by the owners otherwise than as food for human consumption :—

					Tons	cwt.	lb.
Beef				****	_	11	27
Veal					_	6	51
Mutton ar	nd lamb		****		_	8	47
Pork					_	7	30
Offal					_	8	11
Fish					_	8	63
Poultry	****	****		****	_	1	105
Rabbits					_	1	87
Ham and	bacon	****		****	1	1	43
Other pro	visions				5	18	63
Vegetable		****			_	2	6
Eggs					_	4	77
			Tot	al	10	0	50
							-

Meat Hawkers.—Twelve certificates for one year were granted under section 108 of the Cardiff Corporation Act, 1930, to persons not keeping butchers' shops in the city who desired to sell meat or meat products from vehicles, baskets or barrows, after approval of their storage accommodation.

Cooked or Preserved Meat and Other Food.—All made-up food premises have to be registered under the provisions of the Cardiff Corporation Act, 1934. The number of premises on the register is 263, including 119 fried fish shops.

Food Supplies to Institutions.—Periodical visits to Corporation institutions were again made for the purpose of examining foodstuffs supplied, to ascertain that they were of satisfactory quality and in accordance with contracts. Samples of various foods were obtained and submitted to the Public Analyst for analysis.

Disposal of Unsound Food.—The question of the disposal of unsound food received further consideration during the year, and a deputation from the Corporation visited Birmingham, Wolverhampton and Coventry for the purpose of seeing disposal plants in operation. It was decided that the erection of a disposal plant would not be economical, but the installation of an incinerator was suggested. No definite decision has yet been reached and, in the meantime, all unsound food is being taken by a private firm for the manufacture of fertilisers.

Milk Inspection.—The application of one retail purveyor of milk for registration was refused on the grounds that his premises were unsuitable.

The following is a statement showing the method of milk distribution in Cardiff in June, 1937:—

	Number of	Vendors		
Character of Business	Selling over 6 gallons per day	Selling under 6 gallons per day	Total	
From dairy premises	170	1	171	
From shops—loose and bottled milk	24	42	66	
From shops—bottled milk only	_	387	387	
Direct from farms in the City Direct from farms or dairy premises outside the	15	-	15	
City	97	1	98	
Total	306	431	737	

The approximate number of gallons of milk sold per day by all vendors in June, 1937, was 11,013, an increase of 89 gallons compared with the quantity sold per day in June, 1936. Included in the total quantity sold per day in June, 1937, were 605 gallons of Tuberculin Tested Milk, 127 gallons of Accredited milk and 1,558 gallons of Pasteurised milk.

Most of the milk consumed in Cardiff is produced beyond the city boundaries. The number of cowkeepers in Cardiff at the end of the year was 22. One cowkeeper was licensed to produce Tuberculin Tested milk and seven were licensed to produce Accredited milk. All the cattle were regularly examined by the Veterinary Officer and the cowsheds were regularly inspected by sanitary inspectors.

The following is a record of the examination of cows by the Veterinary Officer:-

	Cowkeepers		Cows i	n Milk	Cows	Cows not in Milk		
Month	Premises were visited	Visits	Examined	Found diseased	from Dairy Herds	Examined	Found diseased	
January	24	28	320	5	2	54		
February	. 24	29	329	6	3	51		
March	22	27	299	6	3	42	-	
April	22	. 30	318	7	5	40	-	
May	22	31	325	5	4	45	1	
June	19	15	163	2	1	21	-	
July	. 24	30	348	4	2	51	_	
August	22	29	311	4	2 2	43	-	
September	21	26	290	4	2	37	-	
October	99	27	289	8	3	61	-	
November	. 22	30	291	6	4	68		
December	20	29	250	6	3	65	-	

Thirteen cows affected with tuberculosis were slaughtered during 1937 in terms of the Tuberculosis Order, 1925.

The Veterinary Officer accompanied officers of other local authorities when examining cows at farms situated outside Cardiff, from which milk sold in Cardiff was found to contain tubercle bacilli, in five instances. He examined 56 cows in milk and nine cows not in milk. Of the 56 cows in milk examined, 11 were found to be diseased, and three were excluded from dairy herds as the result of clinical examination.

Tubercle Bacilli in Milk.—The number of routine samples of milk examined for the presence of tubercle bacilli was 265, of which nine, or 3.4 per cent., were found to be positive. The percentage of samples in which tubercle bacilli were found during the ten years 1927-36 was 4.3. The milk was produced outside Cardiff in all the cases in which tubercle bacilli were found during 1937 and the action prescribed by section 4 of the Milk and Dairies (Consolidation) Act, 1915, was taken in each case.

When pigs slaughtered at the abattoirs are found to be affected with tuberculosis, the Veterinary Officer endeavours to ascertain where they are reared, and when this information is obtained samples of milk from the farms are taken if they happen to be in Cardiff; in other cases the Authority in whose districts the farms are situated are informed. In one case during the year this procedure resulted in the discovery of a tuberculous milk supply, and appropriate action was taken to eliminate the cause of infection.

Routine Bacteriological Examination of Milk.—During the year, 336 samples of ordinary commercial milk were submitted for bacteriological examination. Of these, 206, or 61·3 per cent., attained the standard for Tuberculin Tested and Accredited milk.

Graded Milks.—The following is a statement of the numbers of licences for the various grades of milk and the number of individual dealers under the Milk (Special Designations) Order, 1936, as at 31st December, 1937:—

	Des	scription					Number
1)	Producers' licences to use the designar						1
2)	Producers' licences to use the designa-	tion " Ac	credited '	,			7
3)	Dealers' licences to use the designation						
0	(a) Bottling establishments						26
	(b) Shops	****					29
	(c) Supplementary				****	****	9
v	Dealers' licences to use the designation			****			
,			dited —				5
	(a) Bottling establishments		****	****	****		0
	(b) Shops	****	****		****	****	1
	(c) Supplementary	****		****		****	2
)	Dealers' licences to use the designation		arised "—	-			
	(a) Pasteurising establishments			****	****		3
	(b) Shops				****		16
)	Individual dealers—						
	(a) Licensed to use the designation	on "Tube	erculin Te	ested "-			64
	(b) Licensed to use the designati						8
	(c) Licensed to use the designation				****		19

The number of samples of Tuberculin Tested and Accredited milk submitted for bacteriological examination during the year was 620, of which 509, or 82·1 per cent. attained the prescribed standard. In addition, 73 samples of Pasteurised milk were examined, of which 67, or 91·8 per cent., attained the prescribed standard for this grade of milk. In every instance of a sample being below standard steps were taken to ascertain the cause and to effect improvement.

Ice Cream.—The manufacture and sale of ice cream is subject to similar provisions to those governing the preparation of cooked and preserved food. The number of such premises on the register is 423, and since powers of control were obtained considerable improvement has been effected in the methods employed in the making of this product. Manufacturers are now asked to set apart a separate building for the purpose and to have a satisfactory water supply and washing facilities available.

The number of samples of ice cream submitted for bacteriological and chemical examination was 96, the results of which were as follows:—

Number of bacteria per c.c. :—		Number of Samples.
Under 100,000	****	 34
100,000—200,000		 12
200,000—500,000		 11
500,000—1,000,000		 36
Over 1,000,000		 3
Presence of Bacillus Coli :-		
Absent in 1 c.c		 10
Present in 1 c.c		 25
" " 1/10 c.c.		 19
" " 1/100 c.c.		 23
" " 1/1,000 c.c.		 10
", 1/10,000 c.c.		 9

Forty-nine of the samples contained starch and 15 contained gelatine.

Legal Proceedings.—The following is a summary of legal proceedings taken during the year in connection with food, etc., inspection:—

Acts, etc., under which Proceedings were taken	Number	Fined	Cautioned	To pay costs only	Dismissed	With- drawn	Amount of Fines and Cost
F ood and Drugs (Adulteration) Act, 1928 Milk and Dairies Acts and Orders	13 16	9	1	1 3	_	2	£ s. d. 37 12 4
Merchandise Marks Act, 1926	4	3		-	_	1	9 0 0
Total	33	24	2	4	-	3	£59 9 4

Report for 1937 of Mr. S. Dixon, M.Sc., F.I.C., Public Analyst.

The work carried out in the City Analyst's Laboratory during the year 1937 is summarised in the following table, which shows the total number of samples examined and reported upon and the sources from which they were derived:—

Under the Food and Drugs (Adulteration) Act		1,463
Imported Food for Port Health Authority		47
Under the Fertilisers and Feeding Stuffs Act		26
Under the Pharmacy and Poisons Act		1
Under the Rag Flock Acts		13
For the Public Health Department		15
For the Public Works Committee		20
For the Estates Committee		1
For the Central Contracts Committee	****	13
For the Visiting (Mental Hospital) Committee		97
For the City Coroner and City Police		17
From a Flock Factory		21
Total		1,734

These numbers are compared in the table below with those for previous years.

Total Number of Samples Examined, 1929-1937.

Year		Food and Drugs Act	Imported Food	Fertilisers and Feeding Stuffs Act	Rag Flock Acts	A Flock Factory	Miscel- laneous	Total
1929		1,006	11	12	3	_	5	1,037
1930		1,004	69	20	3	_	33	1,129
1931		1,141	56	20	9	_	47	1,273
1932		1,302	24	17	12	14	325	1,394
1933		1,486	32	19	11	21	56	1,625
1934		1,450	51	16	8	22	63	1,610
1935		1,449	32	20	5	24	88	1.618
1936	*****	1,408	51	22	12	13	158	1,664
1937		1,463	47	26	13	21	164	1,734

It will be seen that the majority of the samples dealt with are taken under the Food and Drugs (Adulteration) Act, 1928, and the other Acts mentioned, but a very considerable amount of time is also involved in the analysis of miscellaneous articles received from the various departments of the Corporation. Some of the latter are submitted in order to ascertain whether articles supplied conform with specifications laid down in contracts, others are related to health matters, while those examined for the City Coroner and the Police have consisted of viscera and other articles taken in connection with deaths, suspected poisoning, safe-breaking, etc.

Food and Drugs (Adulteration) Act, 1928.—The total number of samples of food and drugs submitted for anlaysis under the Food and Drugs (Adulteration) Act, 1928, by the Sampling Officers of the Urban Sanitary Authority during the year was 1,463. This represents 6.5 samples taken for each 1,000 of the population of Cardiff as given in the census return for 1931. Ninety, or 6.1 per cent., were returned as adulterated or of unsatisfactory composition. This percentage is somewhat higher than that for the whole of England and Wales, as will be seen in the following table, in which comparison is also made with previous years.

Percentage of Adulteration.

				Cardiff		England and Wales				
	Year		Number Examined	Number Adulterated	Percentage Adulterated	Number Examined	Number Adulterated	Percentage Adulterated		
1929			1,006	20	2.0	133,584	7,260	5.4		
1930			1,004	33	3.3	136,515	6,496	4.8		
1931	****		1,141	46	4.0	136,169	6,324	4.6		
1932			1,302	67	5.1	137,981	7,019	5 . 1		
1933	****	****	1,486	60	4.0	138,171	7,601	5.5		
1934	****		1,450	87	6.0	140,583	7,451	5.3		
1935	*****	****	1,449	76	5.2	143,831	7,972	5.5		
1936			1,408	85	6.0	146,438	7,802	5 . 3		
1937			1,463	90	6.1	151,370	8,401	5.5		

The number and nature of the articles examined and the number of each variety classed as adulterated are shown below:--

Apricots, Dried	Description	on of Sar	nple			Number Examined	Number Adulterate
Arrowroot	Apricots, Dried					5	_
Barley, Pearl 4 — Beer 6 2 Boric ointment 3 — Brandy 3 — Brawn 3 — Camide 2 — Camided peel 2 — Candied peel 2 — Cherries, Glacé 2 — Cider 1 — Cinade 2 — Cocoa 2 — Coffee 6 — Coream 19 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Ginger, Ground 1 — Girger, Ground <td>A</td> <td></td> <td></td> <td></td> <td></td> <td>4</td> <td>_</td>	A					4	_
Beer 6 2 Boric ointment 3 — Brandy 3 — Brawn 3 — Butter 36 — Camphorated oil 8 — Camphorated oil 8 — Candied peel 2 — Cherries, Glacé 2 — Cherries, Glacé 2 — Cider 1 — Cinder 1 — Cinder 1 — Cinder 1 — Cinder 1 — Coroa 2 — Cocoa 2 — Coroa 6 — Cream 19 — Cream 19 — Cream 19 — Cream 10 — Flour 6 — Fruit juices and cordials 4 — Gin					- 30.00	4	_
Boric ointment 3	Door					6	2
Brandy 3 — Brawn 3 — Butter 36 — Camphorated oil 8 — Camphorated oil 8 — Camphorated oil 8 — Cherries, Glacé 2 — Cherries, Glacé 2 — Cider 1 — Cinamon, Ground 2 — Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Lodine, Tincture of 3 — Lodine, Tincture of 3 — Lodine, Tincture of 3 — Mace, Ground 1 — Meat, Minced 4 — Milk					4000	3	
Brawn 3 — Butter 36 — Camphorated oil 8 — Candied peel 2 — Cherries, Glacé 2 — Cider 1 — Cinnamon, Ground 2 — Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine paint 1 — Jam 2 2 Macca, Ground 1 — Margarine 19 — Margarine 19 — Milk 1,181 80 Milk 1,181 80 Milk 1,181 80							_
Butter 36 — Camphorated oil 8 — Candied peel 2 — Cherries, Glacé 2 — Cider 1 — Cinnamon, Ground 2 — Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Four 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Mace, Ground 1 — Margarine 19 — Meat, Minecal 4 — Milk 1,181 80 Milk, Skimmed 1 <	Drawn						
Camphorated oil 8 — Candied peel 2 — Cherries, Glacé 2 — Cider 1 — Cinnamon, Ground 2 — Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Froit juices and cordials 4 — Gin 10 — Gin ger, Ground 2 — Golden syrup 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine, Tincture of 3 — Iodine, Tincture of 1 — Iodine, Tincture of 3 — Iodine, Tincture of 3 — Iodine, Tincture of 3 — Iodine, Fincture of 3 — Iodine, Fincture of 1 — Mace, Ground 1 —	Butter				3000		No.
Candied peel 2 — Cherries, Glacé 2 — Cider 1 — Cinnamon, Ground 2 — Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine, Tincture of 4 — Milk 1,181 80 Milk Conuclean 4 — <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
Cherries, Glacé 2 — Cider 1 — Cinnamon, Ground 2 — Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Folour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Margarine 19 — Margarine 19 — Milk 1,181 80 Milk 1,181 80 Milk 1,181 80 Milk 1,181 80 Milk 1 —							
Cider 1 — Cinnamon, Ground 2 — Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Margarine 19 — Margarine 19 — Milk, Minced 4 — Milk, Shimmed 4 — Milk, Shimmed 1 — Mike, Skimmed 1 — Oatmeal 2 — Peas, Canned 2 —<							
Cinnamon, Ground 2 — Cococa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Skimmed 1 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peap, Canned 2 — Pepper 17<		****	****	****	****		
Cocoa 2 — Coffee 6 — Cream 19 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Mace, Ground 1 — Mace, Ground 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper 17			****	****	****		
Coffee 6 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peapper 17 1 Peppeper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice Ground		ind	****		****		17 19 19 19 19 19
Cream 19 — Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Milk, Skimmed 1 — Milk, Skimmed 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Raisins		****	****	****	****		_
Cream of Tartar 2 — Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk, Condensed 4 — Milk, Skimmed 1 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Raisins 6 — Rice flour 1 — Rum			4.111		1		-
Flour 6 — Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice flour 1 — Rice flour 1 — Rice flour			****	****	****		-
Fruit juices and cordials 4 — Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sausages 4<		r	****	****	4		-
Gin 10 — Ginger, Ground 2 — Golden syrup 2 — Lodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sausages 4	Flour		****	****	****	6	_
Ginger, Ground 2 — Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice 8 — Rice flour 1 — Rum 4 1 Sausages 4		cordials		****	****	4	_
Golden syrup 2 — Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice flour 1 — Rice flour 1 — Rice flour 2 — Rice flour 1 — Rum 4 1 Sausages 4			****		****		-
Iodine, Tincture of 3 — Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Nutmegs, Ground 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice flour 1 — Rice flour 1 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Sugar 4 — Sultanas 12 — Sultanas 12	Ginger, Ground			****			_
Iodine paint 1 — Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sausages 4 — Sugar 4 — Sultanas 12 — Sultanas 12 — Tea 8 — Vinegar 19 4 <t< td=""><td>Golden syrup</td><td></td><td></td><td></td><td></td><td>2</td><td>-</td></t<>	Golden syrup					2	-
Indian	Iodine, Tincture	of	****			3	-
Jam 2 2 Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sausages 4 — Sulgar 4 — Sultanas 12 — Sultanas 12 — Vinegar 19 4 Whiskey 13 —	Iodine paint					1	-
Mace, Ground 1 — Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Sugar 4 — Sultanas 12 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whiskey 13	Lom				100	2	2
Margarine 19 — Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rice flour 1 — Rice flour 1 — Sardines, Canned 2 — Sugar 4 — Sultanas 12 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whiskey 13 —						1	_
Meat, Minced 4 — Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Raisins 6 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Sugar 4 — Sulphur ointment 2 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whiskey 13 —					203	19	_
Milk 1,181 80 Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Sugar 4 — Sulphur ointment 2 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whiskey 13 —							1
Milk, Condensed 4 — Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Raisins 6 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Sausages 4 — Sugar 4 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whise 13 —	Mill-					1.181	80
Milk, Skimmed 1 — Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Raisins 6 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Susages 4 — Sulphur ointment 2 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whiskey 13 —							_
Mineral waters, Sweetened 2 — Nutmegs, Ground 1 — Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Raisins 6 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Susages 4 — Sulphur ointment 2 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whiskey 13 —					1000	1	
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Oatmeal 2 — Peas, Canned 2 — Pepper 17 1 Pepper, Cayenne 2 — Raisins 6 — Rice 8 — Rice, Ground 5 — Rice flour 1 — Rum 4 1 Sardines, Canned 2 — Susages 4 — Sugar 4 — Sulphur ointment 2 — Sultanas 12 — Tea 8 — Vinegar 19 4 Whiskey 13 —							
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Whiskey 13 —	Vinegar	****		****	2000		4
Wine	Whiskey		****	****	****	13	-
			****	4000	****	1	-
Total 1,463 90			-				

Milk.—The Sale of Milk Regulations, 1901, enact that where any sample of milk contains less than 3 per cent. of fat or 8.5 per cent. of non-fatty solids it shall be presumed to be adulterated until the contrary is proved.

The average composition of the milk samples examined during 1937 and for the years 1929-1937 is shown in the next two tables.

Average Composition of all Milk Samples for each Month.

		19	937		1929-1937				
Month	Number of Samples	Fat per cent.	Solids Not-fat per cent.	Total Solids per cent.	Number of Samples	Fat per cent.	Solids Not-fat per cent.	Total Solids per cent.	
Jan	104	4.03	8.69	12.72	567	3.81	8.78	12.59	
Feb	79	4.00	8.75	12.75	658	3.80	8.74	12.54	
March	91	3.86	8.77	12.63	604	3.73	8.74	12 -47	
April	112	3.95	8.70	12.65	640	3.67	8.76	12 - 43	
May	95	3.53	8.83	12 -36	656	3.56	8.83	12 -39	
June	104	3.54	8.74	12.28	665	3.56	8 - 83	12 -39	
July	141	3.61	8.75	12 -36	763	3.67	8.73	12 -40	
Aug	65	3.63	8.71	12.34	605	3.71	8.79	12.50	
Sept	104	3.85	8.77	12.62	733	3.81	8 · 84	12.65	
Oct	92	3.88	8.72	12.60	762	3.96	8 - 87	12.83	
Nov	95	3.97	8.74	12.71	625	3.99	8 · 83	12 .82	
Dec	99	3 .92	8 -82	12.74	621	3.88	8 . 79	12 · 67	
Whole Period	1,181	3.81	8.75	12 .56	7,899	3.76	8 . 80	12.56	

It will be observed that the fat content of milk is at its lowest in the months of May and June and that it gradually increases until November, after which there is a gradual fall until the minimum is reached. The non-fatty solid content is fairly constant throughout the year.

Average Composition of all Milk Samples, 1929-1937.

	Year		Number of Samples	Fat per cent.	Solids-not-fat per cent.	Total Solids per cent.
1929			487	3.71	8 - 87	12.58
1930		****	519	3.69	8 - 90	12.59
1931			600	3.79	8.78	12.57
1932			797	3.72	8 - 81	12.53
1933			. 987	3.72	8.78	12.50
1934	****		1,083	3.78	8.80	12.58
1935	****		1,097	3.81	8 - 83	12.64
1936			1,148	3.77	8.74	12.51
1937	****	***	1,181	3.81	8 .75	12 -56
1929-193	37		7,899	3.76	8 - 80	12 -56

During these nine years the fat has varied from 3.69 per cent. in 1930 to 3.81 per cent. in 1935 and 1937, while the non-fatty solids have ranged between 8.74 per cent. in 1936 and 8.90 per cent. in 1930.

Although the averages in the above tables are well above the limits given in the Sale of Milk Regulations, even during the early summer months, these Regulations do not fix a minimum standard of composition for genuine milk, since there are individual cows and a few herds yielding milk which does not reach these limits, and the High Court has held that a genuine milk is one which is sold in the same condition in which it is given by the cow. Comparison of the results of analysis of samples of unsatisfactory composition with the results yielded by samples taken after supervision of the corresponding milking of the same cows (known as appeal-to-cow samples) is therefore invaluable in establishing whether adulteration has taken place or whether the milk is of naturally poor quality, and, as a general rule, in those cases where it is likely that legal proceedings will be taken, the milk is traced back to its source and this comparison is made.

For the purpose of differentiating between milk which is naturally low in non-fatty solids and that which is low in this constituent by reason of the presence of extraneous water, the Hortvet freezing-point test continues to be of the greatest service. Its value depends upon the fact that genuine milks have freezing points lying within a comparatively narrow range of temperature, and any appreciable deviation from this range towards zero is indicative of the presence of added water. That the freezing point of genuine milk is a much more constant property than the non-fatty solid content is well illustrated by the following results, which have been obtained with 181 appeal-to-cow samples procured since the beginning of 1932, when the test was first used in this laboratory.

Herds-69 Samples.

Range of non-fatty solids = 8.18% to 9.66%; variation from minimum = 16.3%. Range of freezing points = -0.531°C. to -0.558°C.; variation from minimum = 5.1%.

Individual Cows-112 Samples.

Range of non-fatty solids = 6.34% to 9.99%; variation from minimum = 57.5%. Range of freezing points = -0.533°C. to -0.575°C.; variation from minimum = 7.3%.

Before legal proceedings are instituted, however, confirmation is always obtained by a chemical examination and the determination of the freezing point of a corresponding appeal-to-cow sample.

Of the 1,181 samples of milk examined, 80, or 6.7 per cent., were returned as adulterated or of unsatisfactory composition. It will be seen from the following table that this percentage is the highest since 1929, and it justifies the increased attention which is being given to this important commodity.

Percentage of Adulteration of Milk Samples, 1929-1937.

	Year		Number of Samples	Number Adulterated	Percentage Adulterated
1929		 	487	9	1.8
1930		 	519	15	2.9
1931		 	600	25	4.2
1932		 	797	50	6.3
1933		 	987	48	4.9
1934		 	1,083	60	5.5
1935		 	1,097	67	6 - 1
1936		 	1,148	76	6.6
1937			1,181	80	6.7

Particulars of the 80 samples classified as adulterated are given in the next table. The deficiencies in fat and non-fatty solids are based upon the presumptive limits prescribed by the Sale of Milk Regulations (Fat 3.0 per cent.; Non-fatty solids 8.5 per cent.), and the percentages of added water on the freezing points (Hortvet) of the samples, 0.530°C, being taken as the minimum freezing-point depression (Hortvet) for genuine milk.

Adulterated Milk, 1937.

			atterated raint, a	7774	
Number of Sample	Deficiency in Fat per cent.	Deficiency in Non-fatty Solids per cent.	Freezing-point Depression (Hortvet) °C.	Minimum per- centage of Added Water	Designation
		~	0.400	~	
50 51		7 1½	0 ·483 0 ·513	7 2 6	
62	_	62	0.493	6	
63	_	5 5	0.500	5	
64	_	5	0 -499	5	
104	-	6	0.504	- 4	T.T.
107 205	5 5	_	=	_	T.T. T.T.
256	15		_	_	T.T.
268	11	_	_	_	
282	6	_	-	-	Accredited
304	24	-	_	_	
307 314	26 6	_		=	
316	8	_		_	T.T.
329	-	5	0.508	31	T.T.
397	16	_			T.T.
405	23	-	-	_	an an
470 472	12	-	_	_	T.T. T.T.
485	8				1.1.
486	6	- - 4½	0 -490	$6\frac{1}{2}$	
505	17		_	_	Accredited
506	9		-	-	Accredited
507 520	6 9	=	=	_	Accredited T.T.
528	4				1.1.
535	12	_	_	_	
536	11	_	_	_	
550	4	-	-	-	Pasteurised
560 566	7 21	_	=		T.T. T.T.
569	8		_		T.T.
571	16	_	_	_	T.T.
573	9	_	_	_	T.T.
574	11	-	_	-	T.T
575 577	6 11	-	-		T.T. T.T.
578	22				T.T.
593	4		_	_	T.T.
621	_	1	0.520	$1\frac{1}{2}$	
623	14	_	_	_	T.T. T.T.
628 634	4	_			T.T.
676		71	0.481	8	****
696	26		_	_	
716	_	-8	0 .475	8	
735	18	-	_		
740 751	9 6			_	
761	6	_	_	_	Accredited
782	13	_	=	-	- Anna Carlotte
809	9	-	-	_	T.T.
815 850	9 5 7	_	_		T.T.
966	10				T.T.
973	10	_	_	_	T.T.
986	6	_	_	- 0	T.T.
1,044	_	16	0 .436	16	
1,045		6	0 -487	7	
1,057 1,063	4	12	0 .459	12	

Number of Sample	Deficiency in fat per cent.	Deficiency in non-fatty solids per cent.	Freezing-point Depression (Hortvet) °C.	Minimum per- centage of Added Water	Designation
1,064 1,102 1,132 1,137 1,142 1,151 1,156 1,157 1,162	7 12 ———————————————————————————————————	13 10 2 30 9 15 15 24	0·452 0·485 0·505 0·351 0·494 0·462 0·462 0·383	$ \begin{array}{r} 13 \\ \hline 7\frac{1}{2} \\ 4 \\ 30 \\ 6 \\ 11\frac{1}{2} \\ 11\frac{1}{2} \\ 25 \end{array} $	T.T.
1,276 1,277 1,290 1,291 1,347 1,366 1,378 1,393 1,394	- - - - 15 - 1	$\begin{array}{c} 6\frac{1}{2} \\ 6\frac{1}{2} \\ 3 \\ 2 \\ 3 \\ - \\ 8\frac{1}{2} \\ 8\frac{1}{2} \\ 7 \\ 9\frac{1}{2} \end{array}$	0·476 0·491 0·493 0·485 — 0·471 0·457 0·460 0·453	$\begin{array}{c} 8\frac{1}{2} \\ 6 \\ 6 \\ 7 \\ - \\ 9\frac{1}{2} \\ 12 \\ 11\frac{1}{2} \\ 12\frac{1}{2} \end{array}$	T.T.

The following are details of investigations made in respect of some of the samples of milk.

The results obtained upon the examination of three related samples were :-

Source	Fat per cent.	Non- fatty Solids per cent.	Total Solids per cent.	Observations
From retailer	2 .26	8.68	10.94	Deficient of 24% of fat
From producer in course of		0.70		D 0 1 1 1 001 111
Assess I do seem seemal.	1 100 1000	100000000000000000000000000000000000000		Deficient of 6% of fat Deficient of 28% of fat
	From retailer From producer in course of	From retailer 2.26 From producer in course of delivery to retailer 2.82	Source Fat Solids per cent. From retailer 2.26 8.68 From producer in course of delivery to retailer 2.82 8.59	Source Fat Solids Solids per cent.

These samples consisted of evening milk. It was evident that the cows were yielding a product having a very low fat content. In view of the present state of the law, no legal action could be taken against the producer, but the retailer was informed of the quality of the milk he was obtaining and advised to change his source of supply. The producer was a cattle dealer and the cows were in a very poor condition. It is an anomaly that milk of this composition obtained from underfed or improperly fed cows must be regarded as genuine, though no housewife would consider it of the "nature, substance or quality demanded." Since milk plays such an important part in nutrition, a minimum limit might well be fixed for the fat content of merchantable milk in the interests of the consumer.

Milk No. 307, procured on a Sunday from a retailer, contained only $2 \cdot 21$ per cent. of fat and was therefore deficient to the extent of 26 per cent. when compared with the minimum limit of the Sale of Milk Regulations. Samples Nos. 312 and 313, taken on the same evening from the supplier in course of delivery to the retailer, were genuine, containing $3 \cdot 30$ and $4 \cdot 21$ per cent. of fat. It was ascertained that this retailer had also purchased a large quantity of skimmed milk on the day that the deficiency occurred, though he sold none of this as such. He was summoned, pleaded guilty, and was fined $\pounds 2$.

Sample No. 716 was also taken on a Sunday from a retailer. It contained 8 per cent. of added water, while sample No. 719, taken on the same evening in course of delivery from the producer to this vendor, proved to be genuine. The retailer was fined £2. He admitted the presence of added water in the milk, but said that he could not account for it.

Milks numbered 1,044 and 1,045 were obtained at the premises of a retail dairy. They contained 16 per cent. and 7 per cent. respectively of added water, and it was ascertained that they were taken from the evening and morning milk delivered by a certain producer. On the same evening samples Nos. 1063 and 1064 were obtained from the producer at the time of delivery of the milk to the dairy. These contained 12 per cent. and 13 per cent. respectively of added water, while corresponding evening and morning appeal-to-cow samples, Nos. 1,065 and 1,066, obtained on our behalf by the Glamorgan County Council, showed that the milk as produced by the cows was of very good quality. The differences in composition between these appeal-to-cow samples and the earlier ones are shown below.

Evening Milk.

N iber	Source	Fat per cent.	Non- fatty Solids per cent.	Total Solids per cent.	Ash per cent.	F.P.(H)	Observations
114	From dairy	3.75	7 -14	10 .89	0.66	-0 -436	Contained 16% of added water.
134	From producer in course of delivery to dairy	3.97	7 -37	11.34	0.72	_0·452	Contained 13% of added water.
185	Appeal-to-cow sample	4 .89	8 -71	13.60	0.77	_0·540	Genuine.

Morning Milk.

145	From dairy	3 -57	7 -97	11.54	0.72	_0.487	Contained 7% of added water.
163	From producer in course of de- livery to dairy	3.02	7 -48	10 -50	0.69	-0.459	Contained 12% of added water.
166	Appeal-to-cow sample	3.64	8.95	12 -59	0.80	-0.550	Genuine.

It was evident from these results that adulteration had taken place before arrival of the milk at the dairy. Legal proceedings were instituted against the farmer in respect of the sale of samples 1,063 and 1,064, and he was fined £2, with 12/9 costs.

Sample No. 1,142, taken at a dairy, contained only 5.94 per cent. of non-fatty solids, and its freezing point indicated that it contained at least 30 per cent. of added water. A further sample, No. 1,162, was taken from the producer at the time of delivery of the milk to the dairy. This was found to contain only 6.42 per cent. of non-fatty solids, being a deficiency of 24 per cent. when compared with the presumptive limit of 8.5 per cent., while its freezing point indicated the presence of about 25 per cent. of added water. Appeal-to-cow samples were taken for comparison. The differences in composition between these and the samples taken at the dairy are shown below, and they confirmed the conclusion that the latter were adulterated with water to the extent indicated by their low non-fatty solids and freezing-point depressions.

Mixed Evening and Morning Milk.

Number of Sample	Source	Fat per cent.	Non- fatty Solids per cent.	Total Solids per cent.	Ash per cent.	F.P.(H)	Observations
1,142	From dairy	2.50	5 .94	8 -44	0.53	-0·351	Contained 30% of adde water.
1,162	From producer in course of de- livery to dairy	2.75	6 -42	9 - 17	0.57	_0·383	Contained 25% of adde water.
1,168	Appeal-to-cow sample (mixed milk)	4 - 15	8 -81	12.96	0.79	_0·547	Of excellent quality.

Separate Evening and Morning Appeal-to-cow Samples.

1,166 1,167	Evening milk Morning milk	=						Of excellent quality. Of excellent quality.
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Sample No. 1,137, obtained at a dairy, was deficient of 2 per cent. of non-fatty solids when compared with the minimum limit given in the Sale of Milk Regulations, and its freezing point indicated that it contained a small proportion of extraneous water. It was recommended that further samples should be procured, and Nos. 1,276 and 1,277 were obtained later from this supply. In view of the unsatisfactory nature of these, samples Nos. 1,290 and 1,291 were taken from the producer in course of delivery to the dairy, and these were followed by corresponding appeal-to-cow samples Nos. 1,292 and 1,293. The results of the analysis are tabulated below.

Morning Milk.

Number of Sample	Source	Fat per cent.	Non- fatty Solids per cent.	Total Solids per cent.	Ash per cent.	F.P.(H) °C.	Observations
1,137	From dairy	3 - 50	8 -31	11.81	-	-0·505	Contained 4% of add water.
1,277	From dairy	3.63	8 -22	11.85	0.71	— 0 ·491	Contained 6% of add water.
1,291 1,295	From producer in course of de- livery to dairy Appeal-to-cow sample	2 50	8 ·24 9 ·33	11 ·74 12 ·92	0·69 0·79	-0 ·485 -0 ·561	Contained 7% of add water. Of excellent quality.

Evening Milk.

1,276	From dairy	4 -32	7 -92	12 -24	0.69	_0 .476	Contained 8½% of add water.
1,290	From producer in course of de- livery to dairy	4.20	8 - 33	12.53	0.69	-0.493	Contained 6% of add
1,292	Appeal-to-cow sample	4.75	9.01	13.76	0.75	-0.546	Of excellent quality.

The producer was summoned in respect of the sale of the milk from which samples Nos. 1,290 and 1,291 were taken. He had previously been fined at Cardiff £20 and £3 3s. 0d. costs for selling milk grossly adulterated with water in December, 1935, and he was again fined £20 and ordered to pay 16/- costs.

A similar procedure was adopted in respect of two other samples, Nos. 1,366 and 1,378, taken from the evening and morning milk delivered by another supplier to this same dairy, and which were also of unsatisfactory composition. Comparison of the results of analysis of two corresponding samples taken subsequently from the producer in course of delivery to the dairy (Nos. 1,393 and 1,394) with evening and morning appeal-to-cow samples (Nos. 1,396 and 1,397), proved that the former contained added water to the extent of not less than 9½ and 12 per cent. respectively, and the farmer, who pleaded guilty and attributed the adulteration to interference by one of his farm hands, was fined £4 and 12/8d. costs.

The producer of the milk from which samples Nos. 50, 51, 62, 63 and 64 were taken was warned, and observations were kept on this source of supply. Since the close of the year under review, further adulteration occurred, legal proceedings were instituted, and he was fined.

Investigations were also made in a number of cases where the milk was low in fat only and suitable action was taken by the Chief Sanitary Inspector in respect of these and other unsatisfactory samples.

Articles other than Milk.—During the year, 282 samples other than milk were examined. The number and nature of the various articles are set out on page 84. Ten, or 3.5 per cent., were returned as adulterated, and particulars of these are tabulated below.

Articles	other	than	Milk-Adulterated S	amples.
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No. of Sample	Article	Nature of Adulteration or Irregularity
5	Rum	Being 37 · 7 degrees under proof.
354	Pepper	Contained 50 per cent. of ground rice.
398	Vinegar	Deficient of 20 · 5 per cent. of acetic acid.
1,189	Beer	Contained 1/3 grain of lead per gallon.
1,190	Beer	Contained 1/8 grain of lead per gallon.
1,456	Jam	Contained 95 parts of sulphur dioxide per million.
1,457	Jam	Contained 65 parts of sulphur dioxide per million.
1,458	Vinegar	Deficient of 7 per cent. of acetic acid.
1,459	Vinegar	Deficient of 40 per cent. of acetic acid.
1,462	Vinegar,	***************************************
The said	Malted	Consisted of artificial vinegar.

Pepper No. 354 was supplied in a container which bore the following notice:—
"Prepared Pepper.—As various spices and ingredients are added during the grinding, this pepper is sold as a mixed article and is warranted to be of choice quality." This article contained not less than 50 per cent. of ground rice. It is unlikely that the vendor of an article of this composition is protected by such a label, for this admixture is undoubtedly made "fraudulently to increase its bulk, weight or measure."

Six samples of beer were examined for the presence of lead. They contained the following amounts, expressed as grains of metallic lead per gallon of beer:—1/140, 1/90, 1/70, 1/32, 1/8 and 1/3. I regard 1/20 grain of lead per gallon as the maximum that should be allowed in beer, and the last two samples, which were obtained from the same hotel, were returned as adulterated. In my opinion, lead pipes, whether tin-lined, tin-washed or plain, are unsuitable for drawing beer through, and the existing pipes in the three hotels at which these samples were taken have been replaced by others of more satisfactory material.

The alcoholic strength of potable spirits must not be reduced below 35 degrees under proof. Rum, No. 5, was 37.7 degrees under proof, which is equivalent to the presence of 4.1 per cent. of excess water. The vendor, who was summoned, was fined £1.

The maximum amount of sulphur dioxide permitted in jam is 40 parts per million. The two samples examined contained amounts in excess of this limit and the vendors, who were informed of this irregularity, drew the attention of the manufacturers to the matter.

The three samples of vinegar that were deficient in acetic acid consisted of artificial vinegar, and the deficiencies undoubtedly were due to the excessive dilution of "vinegar essence," which is a strong solution of acetic acid coloured with caramel or an aniline dye. Such vinegar is devoid of the esters and other bye-products of fermentation which give to malt vinegar its characteristic piquancy and flavour. Nos. 398 and 1,459 were obtained from the same vendor—a street hawker who has persistently sold this article deficient in acetic acid—and he was fined £5 for each of these offences.

The bottle in which sample No. 1,462 was supplied was labelled "Vinegar Malted" and the word "Unfermented" was stamped in copying ink on the top of the label. The term "Vinegar Malted" was obviously used to convey the impression that the contents consisted of malt vinegar, which is a product derived wholly from fermentation processes, but this article had the characters of an artificially prepared vinegar. Since the close of the year this matter has been given further attention.

Public Health (Preservatives, etc., in Food) Regulations.—No preservatives were found in any of the samples of milk, cream, butter or margarine. In the following table the various articles in which preservatives were detected and the amounts present are shown:—

			Sulphur Dioxide in parts per million			
Article	Number Examined	Number containing Preservative	Amounts found	Maximum permitted		
Apricots, Dried	5	5	420, 560, 775, 1,110, 1,175	2,000		
Candied peel	2	2	8, 70	100		
Cherries, Glacé	2	2	15, 25	100		
Cider	1	1	185	200		
Fruit Juices and Cordials	4	3	180, 185, 240	350		
Jam	2	2	65, 95	40		
Mineral waters,						
Sweetened	2	1	12	70		
Raisins	6	2	190, 465	750		
Sausages	4	2 3	150, 170, 320	450		
Sultanas	12	2	395, 645	750		

Two samples of black-currant jam contained preservative in excess of the maximum limit prescribed by the Regulations, and the vendors were asked to direct the attention of the makers to the irregularity.

Summary of Legal Proceedings.—The results of prosecutions undertaken in respect of samples obtained during the year are summarised in the following table:—

No. of Sample	Article	Result of Analysis	Result of Prosecution
307 716 1,063 1,064 1,162 1,290 1,291 1,393 1,394 5 398	Milk Milk Milk Milk Milk Milk Milk Milk	Deficient of 26 per cent. of fat. Contained 8 per cent. of extraneous water. Contained 12 per cent. of extraneous water. Contained 13 per cent. of extraneous water. Contained 25 per cent. of extraneous water. Contained 6 per cent. of extraneous water. Contained 7 per cent. of extraneous water. Contained 11½ per cent. of extraneous water. Contained 11½ per cent. of extraneous water. Contained 4 · 1 per cent. of extraneous water. Deficient in acetic acid to the extent of 20 · 5 per cent. Deficient in acetic acid to the extent of 40 per cent.	Fined £2. Fined £2 and 12/9 costs. Paid £2 9s. 6d. costs. Fined £20 and 16/- costs (second offence). Fined £4 and 12/8 costs. Fined £1. Fined £5. Fined £5.

The total of the fines and costs in respect of samples examined during the year amounted to £45 10s. 11d. Comparison with previous years is made below:—

Year	Prosecutions	Convictions	Dismissed	Fines	Costs	Total
1929	5	,		£ s. d.	£ s. d.	£ s. d
1930	16	12	4	18 0 0	3 9 6	$\begin{bmatrix} 6 & 0 & 0 \\ 21 & 9 & 6 \end{bmatrix}$
1931	14	14		24 15 0	6 6 7	31 1 7
1932	17	13	4	23 10 0	11 6	24 1 6
1933	7	6	1	29 0 0	1 18 6	30 18 6
1934	19	16	3	38 10 0	22 6 0	60 16 0
1935	11	11	_	33 0 0	8 14 0	41 14 0
1936	18	17	1	83 0 0	8 6 4	91 6 4
1937	12	12	_	41 0 0	4 10 11	45 10 11
929-1937	119	102	17	£296 15 0	£56 3 4	£352 18 4

Imported Food.—In addition to the samples of food and drugs analysed for the Urban Sanitary Authority, 47 samples of imported food were examined for the Port Health Authority. They comprised the following articles:—

Apricots, Dried		1	Raisins		33
Cherries, Canned		1	Sardines		2
Figs, Dried	****	3	Sausage casings	****	1
Lemon juice		1	Sultanas		1
Pea flour	****	1	Tomato Ketchup		1
Peaches, Dried		1	Tongue, Canned		1
	Total		47		

A sample of raisins from South Africa and another from Australia were free from sulphur dioxide, while one from Spain contained sulphur dioxide not exceeding the prescribed limit of 750 parts per million. Of 30 samples from California, seven were free from sulphur dioxide, 18 contained permissible amounts of this preservative and five samples drawn from two consignments contained excessive quantities, viz., 800, 880, 900, 900 and 950 parts of sulphur dioxide per million.

Other articles which contained preservatives complied with the requirements of the Regulations.

The canned cherries contained 0.5 grain of tin per lb., the tomato ketchup contained 16 parts of copper per million, calculated on the dry matter of the sample, and the sardines 1 part of lead per million. These amounts are not excessive.

Fertilisers and Feeding Stuffs Act, 1926.—Particulars of the samples submitted under this Act and details of the samples which were unsatisfactory in composition are given in the following tables:—

		Article		Number Examined	Number Unsatisfactory in Composition		
Barley meal		****		****		. 2	_
Bran	****					7	_
Middlings						2	_
Oat feed						1	_
Oats, Sussex					-	1	
Pollards						5	1
Sharps						5	3
Weatings	****	****	****	****		1	
Wheat shorts	****		****	****	****	2	Karley -
	Т	otal				26	4

Unsatisfactory Samples.

No. of Sample	Article	Nature of Adulteration or Irregularity						
150	Sharps	Contained at least 20% of tapioca meal.						
151	Sharps (official sample)	Contained at least 20% of tapioca meal.						
158	Pollards	Fibre content overstated.						
		Guaranteed	Found					
		Fibre content 9 · 5%	7 · 1%					
162	Sharps	Contained an excess of fibre.						
		Guaranteed	Found					
		Fibre content 7.0%	9.9%					

Although several samples of sharps and other wheat offals were taken with a view to tracing the source of the adulteration of the material from which samples Nos. 150 and 151 were taken, all these were free from admixture with tapioca meal.

The irregularities in the fibre content of the other two samples were not serious.

Rag Flock Acts, 1911 and 1928.—Two of 13 samples of rag flock obtained from upholsterers did not conform to the standard of cleanliness required by the Rag Flock Regulations, 1912. These two samples were taken from old mattresses, the flock in which was being used for upholstering furniture, and the user was summoned and fined 5/- in respect of each sample.

Twenty-one samples of flock taken from a flock factory were also examined. This material continues to be of satisfactory nature and cleanliness.

Public Health Department.—Sixteen samples consisting of stout, vomit, six filter pads, three ciders, two beers, milk, flour and a disinfectant were examined for this department. The disinfectant was submitted under the Pharmacy and Poisons Act, and the filter pads and cider were examined in connection with an investigation of the source of copper in a sample of cider taken by another Local Authority. The two samples of beer contained undesirable amounts of lead, viz., 0.35 and 0.42 grain per gallon.

Public Works Committee and the Estates Committee.—Of the 21 samples of mortar submitted by the City Engineer, 20 were for the Public Works Committee and one for the Estates Committee. One sample of plasterer's mortar was very deficient in lime, the proportion of dry slaked lime to ashes being approximately one to six, whereas the specification for this article requires it to contain one volume of lime to not more than three volumes of ashes. Two other samples were also low in lime content.

Central Contracts Committee.—Two samples of carbolic soap, one of pale yellow soap, one of soap powder and nine of foodstuffs supplied by contractors to the Corporation were examined and reported upon to this Committee.

Visiting (Mental Hospital) Committee.—Determinations were made of the amounts of arsenic in 81 specimens of cerebro-spinal fluid taken from patients after treatment with certain drugs, and also in seven solutions and nine samples of biological material, for the Director of Research at the Biochemical Laboratories of the Mental Hospital.

The results obtained since these examinations were commenced in 1935 have been collated and discussed in a paper on *The Trypanocidal Activity and Arsenic Content of the Cerebro-spinal Fluid after Administration of Arsenic Compounds*, by Drs. F. Hawking, T. J. Hennelly and J. H. Quastel, published in the Journal of Pharmacology and Experimental Therapeutics, Vol. 59, No. 2, 1937.

City Coroner and the City Police.—Seventeen samples, consisting of viscera, urine and other articles, were submitted for analysis in connection with the death of three people.

A sample of liver was examined for the presence of irritant poison, with negative results, and microscopical examinations by the Pathologist showed that death in this case was due to natural causes.

In a case where the ordinary post-mortem examination suggested that death was due to some irritant poison, the viscera and urine, after hydrolysis and extraction with ether, yielded a total of 180 grains of crystalline residue, which proved to be salicylic acid. This amount of salicylic acid is equivalent to 235 grains of aspirin, and the Coroner returned an open verdict, death being due to aspirin poisoning.

In connection with the death of a coal-trimmer, the water content, total mineral matter and total silica in each of two lungs were determined.

XVIII.—HOUSING.

The following is a statement in the form required by the Ministry of Health in relation to housing:—

1.	Inspec	tion of Dwelling-houses during the Year:—	
	(1)	(a) Total number of dwelling-houses inspected for housing defects	
		(under Public Health or Housing Acts) (b) Number of inspections made for the purpose	7,096 13,279
	(2)	(a) Number of dwelling-houses (included under sub-head (1) above)	10,275
	(-)	which were inspected and recorded under the Housing	
		Consolidated Regulations, 1925 (b) Number of inspections made for the purpose	702
	(3)	(b) Number of inspections made for the purpose Number of dwelling-houses found to be in a state so dangerous or	1,233
	(3)	injurious to health as to be unfit for human habitation	_
	(4)	Number of dwelling-houses (exclusive of those referred to under the	
		preceding sub-head) found not to be in all respects reasonably fit for human habitation	2,191
			2,101
2.	*	y of Defects during the Year without Service of Formal Notices:	
		Number of defective dwelling-houses rendered fit in consequence of informal action by the Local Authority or their officers	2,165
		informat action by the Bocar Hathority of their officers	2,100
3.		under Statutory Powers during the Year:—	
	(a)-	-Proceedings under Sections 9, 10 and 16 of the Housing Act, 1936:	
		(1) Number of dwelling-houses in respect of which notices were served requiring repairs	120
		(2) Number of dwelling-houses which were rendered fit after service	
		of formal notices :—	
		(a) By owners (b) By Local Authority in default of owners	112
	1 /	-Proceedings under Public Health Acts :—	
		(1) Number of dwelling-houses in respect of which notices were served requiring defects to be remedied	218
		(2) Number of dwelling-houses in which defects were remedied after	210
		service of formal notices :-	
		(a) By owners	208
		(b) By Local Authority in default of owners	
		-Proceedings under Sections 11 and 13 of the Housing Act, 1936:	
		(1) Number of dwelling-houses in respect of which Demolition Orders were made	38
		(2) Number of dwelling-houses demolished in pursuance of	
		Demolition Orders	-
	(d)-	Proceedings under Section 12 of the Housing Act, 1936:	
		(1) Number of separate tenements or underground rooms in respect	
		of which Closing Orders were made	-
		(2) Number of separate tenements or underground rooms in respect of which Closing Orders were determined, the tenement or	
		room having been rendered fit	-

4. Housing Act, 1936 (Part IV)-Overcrowding:-

(a)—(i) Number of dwellings overcrowded at the end of the year		708
(ii) Number of families dwelling therein		741
(iii) Number of persons dwelling therein		4,866
(b)-Number of new cases of overcrowding reported during the year		5
(c)— (i) Number of cases of overcrowding relieved during the year		526
(ii) Number of persons concerned in such cases		2,593
(d)—Particulars of any cases in which dwelling-houses have as become overcrowded after the Local Authority have taken s		
for the abatement of overcrowding	****	

Overcrowding.—The City Council decided during the year to build an additional 2,000 houses for general purposes; of these, 1,000 are to be allocated for the abatement of overcrowding. The programme is to complete 500 houses during each year for our successive years.

Council Housing Estates.—Duties in connection with the supervision of Council houses continue to increase, particularly in connection with the transfer of overcrowded families on the estates and with the rehousing of families from condemned houses.

There has been a considerable increase in the number of applications received from tenants of Council houses for transfer to other houses on the Council estates during the year. The majority of these applications were made on medical grounds, which could not be supported on investigation. Applications for transfer and applications for preferential consideration for Council houses are now referred to the department, and reports are submitted to the City Treasurer and Controller for consideration by the Committee responsible for the allocation of houses. In particular, any family a member of which is suffering from tuberculosis and whose accommodation is so inadequate as to cause a danger of infection, is given preference for a house immediately. In some of these cases it has been found that after the family had moved into a Council house they sub-let a portion of it, thereby bringing about the same conditions as when they were in rooms, in consequence of which an undertaking in writing has now to be signed by the head of the family to the effect that if granted a Council house he will guarantee not to sub-let any portion of it.

A welcome addition to the Council housing estates was the erection of 25 cottages for aged couples. These cottages are of the bungalow type, comprising one living room, one bedroom, bathroom, kitchenette and other conveniences. They have proved to be such a boon that the Council are contemplating the erection of others. A portion of the cost of these cottages was borne by a private donor, the Corporation bearing the remainder, and each cottage is let at an inclusive rental of 4/6d. per week.

The number of Council houses found to be infested with bugs shows a considerable reduction compared with previous years, and the following table indicates the decrease since 1930, when periodical visits of inspection were first introduced:—

Year	Vacant Houses inspected	Vacant Houses found to be verminous	Percentage found to be verminous
1930	 321	98	30 - 5
1931	 347	93	26 .8
1932	 419	91	21.7
1933	 435	89	20.5
1934	 452	110	24.3
1935	 445	110	24.7
1936	 539	105	19.5
1937	554	81	14.6

Eradication of Bed Bugs.—The number of vacant Council houses found to be infested with bugs is shown on page 97, and, in addition, 155 privately-owned houses were found to show evidence of infestation. Disinfestation was carried out in each instance. The method adopted for freeing houses from bugs on the Council estates is the stripping of the woodwork, the application of the flame of a blow-lamp, followed by spraying with an insecticide or a disinfecting fluid. In minor cases of infestation spraying with an insecticide is usually sufficient. This work is undertaken by Corporation workmen acting under the supervision of the Sanitary Inspector who is responsible for the supervision of the sanitary condition of all Council houses. Hydrocyanic-acid gas is not used, owing to its highly dangerous properties, and so far no more effective method than the blow-lamp has been found. It is considered that this method of treatment is effective in 90 per cent. of cases when carried out by a trained staff of workmen.

Prospective tenants of Council houses have their furniture and effects inspected before being allotted a house. In cases where the standard of cleanliness is not good, rehousing is deferred until it is shown that the applicant has made a serious effort to secure some improvement.

When condemned houses are found to be bug infested, the bedding is taken to the steam disinfector, and any furniture likely to harbour bugs is treated with a blow-lamp and an insecticide on the day that rehousing takes place. The family is then followed up after rehousing, and supervision is not relaxed until the department is satisfied that all danger of infestation of the new house is over. In very few cases has bug infestation been transferred to new houses, and, in fact, it is pleasing to record that the reaction of tenants who have previously been living under sordid conditions has been excellent.

The measures taken to educate tenants on the evils of bug infestation are continuous. So far as Council houses are concerned, periodical inspections are made by the Sanitary Inspector, and suitable action is taken if any house is found to show neglect. Advice is also given on ways of avoiding infestation, and tenants are encouraged to report immediately bugs are discovered.

The same methods are employed in connection with privately-owned houses, and the department keeps in stock a supply of sprays and fluid; the sprays are loaned free of charge and the fluid is sold at cost price.

Houses-let-in-lodgings.—The number of houses on the register is 15. Many other houses come within this category and will have to be dealt with when the pressure of work brought about by housing and overcrowding is reduced.

Housing Acts.—The programme of slum clearance under the Housing Act, 1930, has been completed, with the exception of the rehousing of coloured families. During the year, a further survey of the city was undertaken, and all additional unfit houses and basements were scheduled for suitable action. Representations were made under section 11 of the Housing Act, 1936, in respect of 101 houses, and the following are the results of such action:—Demolition Orders made, 38; undertakings accepted not to use the premises for human habitation, 36; undertakings to recondition the properties accepted, 26; in abeyance, 1. There are still a few houses and a number of basements to be dealt with, and representations regarding these will be made during 1938.

The clearance of the houses in the Wood Street area in connection with its development for the purpose of a public hall, 'bus station, etc., has now been completed and all the families have been re-housed. This work threw an additional burden on the department, as every house in the area was found to be verminous.

The number of houses repaired under section 9 of the Housing Act, 1936, was 888, of which 768 were dealt with by informal notices and 120 by formal notices. In eight instances the repairs were executed by the Council in default of the owners.

XIX.—GENERAL SANITARY ADMINISTRATION.

Statements as to the nature and extent of the work done during 1937 in connection with general sanitary inspection are given below.

GENERAL SANITARY INSPECTION.

Complaints of nuisances received

2,406

				Inspections		on Notices	Statutor	y Notices
				or		Complied	Served	Complied
				Visits	Served	with during		with during
					during year		vear	the year
					during year	the year	year	the year
Houses inspected				7,096	2,191*	2,165+	218	208
Re-inspections of hous		****	****	13,279	-,-		_	_
Houses inspected and				702	_	_	_	
Re-inspections of recor				1,233		_	_	
Premises other than he				-,				
nuisances			5000	127	4	1	_	_
Owners and contractor	rs intervi	ewed		1,923	_	_	-	_
Knackers' yards				28	1	1	_	-
Slaughter-houses	****	****	***	661	_	_	_	_
Milkshops, etc.				1,612	99	95	_	_
Cowsheds		****	***	183	_	_	_	
Offensive trades		****		86	5	2	_	_
Workshops—	2002							
Bakehouses				195	9	5	_	
Bootmakers				78	1	_	_	_
Dressmakers and			***	47	1	2	_	
Laundries			***	16		2	_	
Tailors				94	12	10	_	
Miscellaneous				247	8	8	_	_
Factories-			***					
Bakehouses				143	7	6	_	_
Bootmakers				31	_	_	_	_
Laundries		****		17	1	1	_	-
Tailors	****			5	1	1	_	_
Dressmakers and				3	_	_	_	_
Miscellaneous				649	19	16		-
Workplaces				965	12	5	_	_
Tailors' outworkers			***	9		_	_	_
Seamen's lodging hou				741	93	64	_	_
	(night			58	_	_		-
Common lodging hous			***	60	4	4	-	
	(minh)	(:)			_	_	_	
Houses-let-in-lodgings			***	149	4	4	_	_
Tents, vans, sheds and	d similar			62	1	1	_	_
Amusement places			***	143	8	7	i -	_
Public houses		****		43	2	2	_	_
Schools				59	-	_	_	_
Swimming baths	****	****	***	50	-	_	_	_
Water supplies		****		12	_	_	_	_
Water courses	****	****		44	_	_	_	_
Refuse tips				50	1		-	-
Accumulations	****	****		446	102	101	_	-
Sewers				65	1	1	-	_
Drains		****		2,946	52	47	_	_
Public urinals	100	****		168	1	1	_	-
Cesspools	****			17	-	_	_	_
Back lanes	****	****		231	2	1	_	_
Rat infestation				843	21	20	_	-
Premises where swine	or other	animals	are	e				
kept	****			210	12	12	_	-
				79	3	2	_	_
Marine store hawkers	****	****						
Overcrowding				527	-	_	-	-
				100	2	1	=	=

^{*} Including 89 under section 9 of the Housing Act, 1936.

^{† ,, 117 ,, ,, ,, ,, ,, ,, ,, ,,}

NUISANCES ABATED, REPAIRS EXECUTED, ETC.

Houses:—				
Walls repaired				418
Outside plastering repaired				672
Inside plastering repaired				878
Damp-proof courses inserte	ed	****		72
Floors renewed or repaired				653
Floors ventilated				74
Roofs renewed or repaired				940
Shutes, downpipes or gutte	ers renew	ed or rep	aired	772
Chimneys repaired .				328
Ceilings repaired				440
Doors and frames repaired				408
Lighting and ventilation of	f rooms i	mproved		48
Window sashes or frames r			ed	805
Window cords renewed .				727
Staircases repaired				124
Grates or ovens repaired or	renewe	d	7007 W	469
Boilers provided or repaire				141
Food stores provided or im				77
Washhouses provided or in				84
Out-buildings repaired	Provide			26
Obstructive out-buildings	demolish	ed		17
Walls or ceilings cleansed				153
Bedding cleansed or destro		racca		91
Rooms treated for vermin.			****	183
Overcrowding abated	***	****	****	8
Yard paving relaid or repa	ired	****		518
Nuisances from animals ab				8
Accumulations removed .	accu			63
Ash-bins provided				9
Water supply provided	***	****	****	11
Water taps or pipes repair	ed			29
Water samples taken for a		****	****	17
Miscellaneous repairs and i		s abated		391
	iuisance	3 abatea	****	001
Drainage :—				
Duning tosted (smales)				171
" " (chemical)		****		391
New drains constructed				72
Drains reconstructed				87
Drains repaired				334
Draine alconced				282
Drains cleansed or repaire	ed by Co	orporation	n in defa	ult
-6			****	8
Inspection or intercepting	chamber		ed or repa	aired 57
Intercepting traps fixed				10
Soilpipes or ventilating sha			red	47
Rain-water pipes disconne				5
Gullies fixed				135
Trougha provided		****	****	626
Troughs trapped or waste			****	138
Bath waste pipes trapped				19
Lavatory basins trapped o				18
Additional w.c.'s provided				38
W.c.'s reconstructed				99
Drain inlet inside house al	polished			3

Nuis.	ANCES ABATED, REPAIRS EXECUTED, ETC.—(cont.)			
	Lighting and ventilation of w.c.s improved			32
	New pans and traps fixed			1,040
	W.c. pans cleansed			37
	Flushing apparatus provided			824
	Flushing apparatus repaired			50
	Miscellaneous repairs			389
	miscendificous repairs		****	000
	Casanaala:			
	Cesspools:— Abolished and house connected to sewer			10
	Abousted and house connected to sewer			16
	Seamen's Lodging Houses :-			
	Limewashing or cleansing carried out			114
	Bedding removed			31
	Verminous rooms treated			58
	Redsteads cleansed or repaired			365
	Accumulations removed		****	4
		****	****	
	Washing accommodation provided	****	****	5
	Other repairs	****	****	11
	W.c.'s repaired	****		4
	Additional w.c. accommodation provided	****	****	3
	Common I admin II			
	Common Lodging Houses :-			
	Limewashing or cleansing carried out			6
	Verminous rooms treated	****		1
	Miscellaneous repairs			4
	Urinals :			
				2
	Additional urinals provided	****	****	3
	Walls repaired or made impervious	****	****	1
	Flushing apparatus fixed or repaired		****	1
	Tents, Vans or Sheds :-			
	Removed			5
	Removed		****	
	Amusement Places :—			
	W.c.'s repaired			6
	Additional w.c. accommodation provided			2
	Cleanliness improved			9
	Other repairs			7
	other repairs			
	P W (1 (P 1P (1 W 0 W)	1		
	Eradication of Bed Bugs (excluding Council house	s):—		200
	Houses infested with bed bugs			155
	Houses disinfested			116
	Dairies, Cowsheds and Milkshops :-			2000
	New dairies constructed			3
	Existing cowsheds improved			5
	Paving repaired			6
	Lighting or ventilation improved			4
		****	****	36
	Limewashing or cleansing carried out	****		6
	Accumulations of manure removed	****		
	Drainage improved	****	****	6
	Other repairs	****	****	2

NUISANCES ABATED, REPAIRS EXECUTED, ETC.—(cont.)

Ice Cream Premises :—					
Limewashing or cleansing	g carried	out			27
Accumulations removed	5 carried	out		****	1
Premises improved					3
Use of unsuitable premis	es discont	inued	****	****	2
Applications for registrat			****		1
Water supply provided	Torus		****	****	3
Washing-up sinks provid	ed		****	****	3
Ash-bins provided					4
Other repairs					3
•					
Food Shops, Kitchens, etc.:-					
Storage arrangements im	proved				5
Accumulations removed		****			5
Cleanliness improved					11
Ash-bins provided				****	2
Washing-up sinks fixed					9
Lighting or ventilation in	mproved				6
Water supply provided					3
Inside drain inlets abolis	hed				1
Other repairs					9
E-i-1 Ei-1 Cl					
Fried Fish Shops:—					
Applications for registrat	ion refus	ed	****	****	1
Water supply provided	a.d			****	7
Washing-up sinks provid		****			11,
New ranges fitted		****	****		11
Ash-bins provided Cleansing carried out	****	****	****	****	6 21
Storage accommodation	provided	or impre	oved	****	5
Drainage improved	provided	or impre	oved	****	4
Accumulations removed	****	****			8
Unsuitable premises disc	ontinued		****	****	6
Lighting and ventilation					6
Other repairs	prove.			****	1
			****	****	
Offensive Trades :—					
Accumulations removed		****		****	2
Cleanliness improved					1
Other repairs		****			1
Stables:—					22
Accumulations of manur		d		****	22
Paving repaired or renew					2
Manure receptacles provi		paired			5
Limewashing carried out		****			19
Drains provided					1
Back Lanes :—					
Accumulations removed					14
Surfaces repaired	****		****	****	14
ouriaces repaired	****	****	****	****	
Miscellaneous repairs or nuisano	ces abateo	1			12
The state of the s	·			****	-

Common Lodging Houses.—There are six registered Common Lodging Houses, two of them being large and the remainder of a small type.

Seamen's Lodging Houses.—The number of licensed Seamen's Lodging Houses has decreased considerably and there are now only 64.

Offensive Trades .- The following is a list of established offensive trades :-

Artificial Manure	Manufact	urers		 ****	2
Fat Melters	****	****	****	 ****	2
Tripe Boilers				 	22
Rag and Bone De	alers		****	 	19
Gut Scrapers				 	2

The premises are kept under regular observation. Fortunately, most of those which are liable to cause effluvium nuisances are situated in a remote part of the city, some distance from dwelling-houses.

During the year, five applications to establish the business of rag and bone dealer were refused on the grounds that the localities in which it was proposed to establish them were unsuitable, the Health Committee having decided to restrict the establishment of these trades to the only area in Cardiff suitable for the purpose.

Choked and Defective Drains.—During the year action was taken under section 98 of the Cardiff Corporation Act, 1930, in nine cases in which the owners or occupiers failed to carry out the work, and no difficulty was experienced in recovering the costs incurred.

Flushing Cisterns.—During the year, 824 flushing cisterns were installed to hand-flushed closets, making a total of 12,797 since the work was commenced in February, 1931. With few exceptions, the problem of hand-flushed closets is now disposed of.

Conservancy System Closets.—The numbers of closets remaining on the conservancy system at the end of the year were as follows:—

			7	otal	***		71
Privies	****		****		****	Steens	66
Earth clo	sets	****		****		4111	5

Cesspools.—There are 30 cesspools receiving drainage from dwelling-houses and three cesspools in connection with factories.

Drainage and Sewerage: Roath Area Flood Prevention Works.—Two float operated, vertical spindle, axial flow, electric motor type pumps, of 13,500 gallons per minute capacity each, were installed in Waterloo Gardens to discharge into Roath Brook storm-water in excess of six times dry weather flow from Waterloo Road, Marlborough Road and Albany Road intercepting sewers.

Public Cleansing.—There has been no appreciable difference in the collection and disposal of refuse from previous years. Refuse is collected twice weekly from all dwelling houses and daily from shopping centres, and is disposed of by controlled tipping.

Water Supply.—All premises within the city are supplied with water from the public supply, with the exception of 24 houses, three farms and farmhouses, and five dairies, which obtain their supplies from 22 wells and two springs. Samples from these wells and springs are taken regularly, and recent reports show that 16 are satisfactory, four are moderate, three are doubtful and one is contaminated. All practicable steps are being taken to improve the sources of supply where they are unsatisfactory, but it is not possible at present to connect these premises to the public water mains.

The public water supply has been satisfactory in both quality and quantity, and during the drought in the autumn of 1937 no restriction of supply—even for the washing of cars or watering gardens—was made.

Swimming Baths.—There is one covered swimming bath, which is equipped with a modern continuous filtration plant. Open-air bathing is obtainable at two swimming baths and also at Roath Park Lake. The two open-air swimming baths are equipped with continuous filtration plants. Samples of water are taken for analysis and bac-

teriological examination weekly during the bathing season.

A private swimming bath owned by a large firm, but which is also open to the public, is now subject to supervision under the provisions of the Public Health Act, 1936, and although the Corporation have not made by-laws covering this type of bath, regular inspections and sampling of the water are carried out. The need for such supervision is indicated by the fact that when the bathing season opened, the first sample showed evidence of sewage contamination, but this was remedied following consultations with officials of the firm.

Smoke Abatement.—Cardiff suffers but little from smoke nuisances, and it has not been necessary to take legal action in respect of any offences during the year. Several complaints of grit nuisance have been received, but the factory proprietors concerned in each case have been ready to co-operate with the department in carrying out remedial measures.

Rat Destruction.—The following is a summary of the work of the department in connection with the destruction of rats:—

Amount of poison sold (tins)			 128
Number of baits laid in public sew	ers	****	 4,554
Number of baits eaten			 4,080
Number of baits laid elsewhere	****		 22,863
Number of baits eaten	****		 17,996
Total number of baits laid	****		 27,417
Total number of baits eaten			 22,076

During the year, 336 live rats and 902 dead rats from premises in the city were submitted to the Department of Zoology, National Museum of Wales, for identification and for examination of their parasitic fleas, for comparison with those submitted from ships and the docks.

Factories, Workshops and Workplaces.—Details of the sanitary inspection of factories, workshops and workplaces under the Factory and Workshop Act, 1901, are given in the following tables:—

1.—Inspection of Factories, Workshops and Workplaces.

	Number of					
Premises	Inspections	Written Notices	Prosecutions			
Factories (including Factory Laundries)	842 677	28 31	=			
Part 3 of this Report)	265	12	-			
Total	1,784	71	_			

2.—Defects Found in Factories, Workshops and Workplaces

PARTICULARS					Number of Defects		
TARTICULARS	,		1		Found	Remedied	
Suisances under the Public Health Acts	-						
Want of Cleanliness	****				98	78	
Want of Ventilation		****			_	_	
Overcrowding	****				_	_	
Other Nuisances		****			20	18	
	/ insuffi	cient			7	6	
Sanitary accommodation	unsuit	able or d	lefective		18	18	
	not se	parate fo	r sexes		4	4	
Breach of special sanitary requ	irements f	or bakeh	ouses				
(Sec. 97 to 100)	****	****	****	***	-	-	
				-			
Total		****	****		137	124	

3.—Home Work.

			received f		rs, Section	N 107	Notices served	OUTWORK IN UNWHOLESOME PREMISES, Section 108		OUTWORK IN INFECTED PREMISES, Sections 109, 110	
NATURE OF WORK	Sending twice in the year			Sen	Sending once in the year			*-			Orders
	Lists	Con- tractors	Work- men	Lists	Con- tractors	Work- men	as to keeping or sending lists	In- stances	Notices served	In- stances	made (S.110)
Wearing Apparel— (1) Making, etc	32	_	100	7	_	28	41	-	_	_	_
(2) Cleaning and washing	-	-	-	_	-	-	-	-	-	-	-

4.—REGISTERED WORKSHOPS.

	13000								
akers				****		****	***	****	109
otmakers	****	****			****		****		146
essmakers and	milliner	s	****		****	****			49
undries		****		****					14
lors		****	****	****	****	****		****	113
scellaneous	****		****	0.000	****		****	****	320

5.—OTHER MATTERS.

Class	Number
Matters notified to H.M. Inspector of Factories:— Failure to affix Abstract of the Factory and Workshop Act (Sec. 133) Action taken in matters referred by H.M. Inspectors as remediable under the Public Health Acts but not under the Factory Act:—	-
Notified by H.M. Inspector	8
Reports (of action taken) sent to H.M. Inspector	5
Other (Notices of Occupation of Workshops received from H.M. Inspector)	21
Underground Bakehouses in use at the end of the year	_

Shops.—The following is a summary of the work done under the Shops Acts and in connection with the sanitary inspection of shops:—

Closing Orders in operation	n				15
Observations of shops und	der Closi	ng Orders			2,397
Observations of shops as t	to weekl	y half-hol	lidays		3,759
Inspections of shops	****	****	****		2,881
Infringements of Shops A	cts				61
Notices requiring sanitary	defects	to be rer	nedied :-	-	
Served	****	****	****		122
Complied with					98

Local Orders were made giving one hour's extension of the opening hours to bakers on the Thursday preceding Good Friday, and a similar Order was granted to fish, game and poultry dealers and to fruit and vegetable dealers for the Saturdays immediately preceding each Bank Holiday and for the Thursday preceding Good Friday.

A Weekly Half-Holiday Order for greengrocers, fruiterers and fishmongers was made, making it compulsory for such shops to be closed not later than 1.30 p.m. on Wednesdays.

Seven applications have been granted to Jewish traders under section 7 of the Shops (Sunday Trading Restriction) Act, 1936, permitting them to remain open until 2 p.m. on Sunday, provided they close the whole of Saturday, and three applications from Kosher butchers to open on Sundays, subject to the conditions laid down in the Retail Meat Dealers' Shops (Sunday Closing) Act, 1936, were also granted.

Some difficulty was experienced with a firm of grocery and provision merchants who have several branches in the city regarding the provision of heating facilities. The firm objected to and failed to comply with notices requiring them to provide heating facilities on the grounds that artificial heating would be deleterious to the foodstuffs stocked. Legal proceedings were eventually taken against the firm, and the case for the prosecution was that the Act of 1934 granted no exemptions in this respect, that the temperature which should be maintained, namely, 55°F., was reasonable, as such a temperature was much lower than the normal temperatures which had to be contended with in the summer months, and that the Act was framed to secure the comfort of the assistants and the question of damage to foodstuffs was irrelevant. The Stipendiary Magistrate dismissed the summonses on a technical point, but the cases were re-opened on fresh evidence at a later date and convictions were obtained.

There are approximately 5,000 shops in the city, and inspections in connection with the provision of sanitary conveniences, washing facilities, ventilation, heating, etc., have taken up a considerable amount of time. Although, wherever practicable, separate conveniences and washing facilities are insisted upon for each shop, the provision of these facilities is impossible in many cases. Up to date, 121 exemption certificates in connection with the provision of sanitary conveniences and 65 exemptions from the provision of washing facilities have been granted. Such exemptions are only given when similar facilities are available within a reasonable distance.

Pharmacy and Poisons Act, 1933.—During the year, 112 licences were renewed and 18 new licences were issued.

New Legislation.—The year has been remarkable for the amount of new legislation that came into operation. In particular, there was the consolidation of the Public Health Acts into the Public Health Act, 1936, and, although this measure will prove advantageous in the long run, its introduction threw a considerable amount of additional work on the department owing to the difference in procedure and the new powers it contains. The inspection of offices, for instance, is now provided for, but it will be some time before the records of all the offices in the city can be completed. Another new Act was the Shops (Sunday Trading Restriction) Act, 1936, which, for the first time, deals with Sunday trading, but is difficult to administer owing to the many exemptions which it contains. The Retail Meat Dealers' Shops (Sunday Closing) Act, 1936, and the Housing Act, 1936, are other new Acts, the latter simply consolidating previous legislation, without amendment, and for this reason has simplified procedure.

The Health Committee recognised that the additional duties thrown on the department necessitated an increase in staff, and consequently appointed two additional sanitary inspectors.

Legal Proceedings.—The following is a summary of legal proceedings taken during the year in connection with general sanitary administration:—

Acts, etc., under which proceedings were taken	Number	Fined	Cautioned	To pay cost only	Dismissed	With- drawn	Amount of Fines and Costs
Shops Acts	64	36	10	13	4	1	£ s. d. 13 10 0
Public Health Act, 1936 (Sec. 107)	3	1	_	_	1	1	10 0
Housing Act, 1936 Cardiff Corporation Act,	22	2	-	19	-	1	3 11 0
1930 (Sec. 101) Merchant Shipping Act, 1894	6	3	-	3	-	-	4 9 0
(Sec. 214, Sub-sec. 5)	4	4	-	_	-	-	2 15 0
Total	99	46	10	35	5	3	£23 15 0

XX.-ATMOSPHERIC POLLUTION.

This section is compiled from data supplied by Mr. J. H. Sugden, M.Sc., F.I.C., of the Cardiff and County Public Health Laboratory, under whose direction the analyses and measurements are undertaken.

Deposit Gauge.—Atmospheric pollution observations made with a deposit gauge in Cardiff during 1937 are given in the following table:—

						Dekametre			-		
		Rain-	I	nsoluble Mat	ter	Soluble	Matter		Include	d in Soluble	Matter
Month		fall (mm)	Tar	Carbon- aceous other than Tar	Ash	Loss on Ignition	Ash	Total Solids	Sulphates (SO ₃)	Chlorine (Cl.)	Ammonia (NH ₃)
January		126	4	_137	229	132	366	868	101	96	4
February	****	153	4	100	161	153	383	801	116	83	3
March		107	4	157	206	72	209	648	72	45	3
April	****	105	4	129	212	70	148	563	63	23	3
May	****	62 .	4	81	162	53	97	397	39	12	3
June	****	27	4	51	118	28	65	266	29	9	1
July		78	4	91	126	52	94	367	56	8	1
August		13	4	76	122	33	57	292	27	4	1
September		40	4	92	130	49	107	382	28	27	1
October		101	4	101	149	82	140	476	56	25	3
November		57	4	152	203	67	125	551	51	20	1
December		52	4	104	154	64	149	475	55	32	3
Total		921	48	1,271	1,972	855	1,940	6,086	693	384	27
Mean		76	4	106	164	71	162	507	58	32	2

Sulphur Pollution.—Since January, 1935, the amount of atmospheric sulphur dioxide has been measured by the lead peroxide method in Splott—a municipal ward in which iron and steel works are situated—as well as at the City Hall. The results, together with the calculated approximate volumes per million of air, for 1937 are tabulated in the following table:—

		Main		grams So		Calculated volume SO ₂ per million of air			
Month		direction of Wind	Splott	City Hall	Differ- ence	Splott	City Hall	Difference	
January		To works	3 .25	1 .34	1 .91	0.090	0.037	0 -053	
February		_	3 .96	1.04	2.92	0.110	0.029	0.081	
March		To works	3.00	1 .58	1 -42	0.083	0.044	0.039	
April		_	3 .53	1 .27	2 · 26	0.098	0.035	0.063	
May		_	2.77	0.91	1 .86	0.077	0.025	0 .052	
June		_	3.08	0.68	2 .40	0.086	0.019	0.067	
July		From works	3.04	0.52	2 . 52	0.084	0.014	0.070	
August		To works	2 .58	0.64	1 .94	0.072	0.018	0 -054	
September		To works	2 .38	1.00	1 .38	0.066	0.028	0.038	
October			2 .26	1.22	1 .04	0 -063	0.034	0.029	
November		To works	2 .51	1 .97	0.54	0.070	0.055	0.015	
December		To works	3 . 24	2.05	1 -19	0.090	0.057	0 -033	

Ultra-violet Radiation.—The mean daily units of ultra-violet radiation, as measured by the acetone methylene blue method, in Cardiff during 1937 were as follows:—

				Mean Daily Radiation Units				
Ŋ	Ionth			Penylan (Suburban)	City Hall (Central)			
January				0.18	0.18			
February		****		0.23	0.21			
March				0.30	0.26			
April	****	****		0.53	0.50			
May				1.14	1.03			
June			****	1.53	1 -48			
July				1.60	1.50			
August		****		1.80	1.80			
September				0.96	0.92			
October		****		0.47	0.47			
November	****			0.29	0.30			
December				0.25	0.23			

XXI.-METEOROLOGICAL OBSERVATIONS.

The Climatological Station, which is situated at Penylan, Cardiff, is under the control of the Medical Officer of Health. The geographical position of the Station is Latitude 51° 30′N., Longitude 3° 10′W., and the height of the Station above mean sea level is 203 feet. Observations are made daily at 9.0 a.m. and 9.0 p.m. (G.M.T.) Summaries of the observations made during 1937 are given in the following tables:—

BAROMETRIC PRESSURE AND RELATIVE HUMIDITY.

			Attached	Mean Barome	etric Pressure*	Hygrometer*		
Month		Thermo- meter (Mean)	Uncorrected	Reduced to Mean Sea Level and Temp. 32° F.	Dry Bulb (Mean)	Wet Bulb (Mean)	Mean Relative Humidity	
			°F.	Inches.	Inches.	°F.	°F.	%
January		****	43	29 - 540	29.719	41 .7	40 .8	94
February			44	29 - 398	29 - 507	42.5	41 .2	90
March	****		39	29 -440	29 - 667	38 -2	36 -4	85
April	****	1751	50	29 - 673	29 -869	48 - 7	46 .2	84
May	****		55	29 -843	30 -024	53 -2	50 -1	82
June	****		60	29 - 925	30 .092	58 -4	54 -2	76
July	****		61	29 -889	30 -059	59 - 7	56 . 5	80
August			65	29 - 949	30 -155	62 -9	59 -1	78
September	****	****	58	29 - 768	29 - 936	56 - 6	53 .6	81
October			52	29 - 788	29 - 978	50 .8	48.5	85
November	*****		43	29 -825	30 -124	41 .6	40.5	92
December	****		39	29 -662	29 -950	38 - 5	37 · 3	89
			51	29 -725	29 -923	49 -4	47.0	85

^{*} From observations at 9 a.m. and 9 p.m. (G.M.T.)

TEMPERATURE.

	Month		Absolute Maximum	Absolute Minimum	Mean of Maximum	Mean of Minimum	Mean Temperature	Difference from Averag (48 years)
			°F.	°F.	°F.	°F.	°F.	°F.
January			 54	27	47 -0	37 - 2	42 -1	+ 2.0
February			 53	30	48 - 2	38 -8	43 - 5	+ 3.3
March		*****	 56	26	45 -4	36.5	40.9	- 1.6
April			 64	36	56 -1	43 -4	49.7	+ 3.3
May			 77	40	62 - 6	46.9	54 -7	+ 2.0
June			 75	42	66 -9	50 -4	58 - 7	+ 1.3
July			 76	46	67 - 5	54 .0	60 - 7	0.0
August			 82	47	73 -1	53 -9	63 - 5	+ 3.1
September			 76	43	65 -4	50 .2	57 -8	+ 1.3
October			67	39	57 -6	46 -4	52 -0	+ 1.7
November			 56	26	47 - 5	38 -0	42.7	- 1.5
December			 54	27	44 -1	35.0	39.5	- 1.6
			82	26	56 -8	44 -2	50 -1	+ 1.2

TERRESTRIAL RADIATION, UNDERGROUND TEMPERATURE AND SUNSHINE.

						Temperature		Bright Sunshine		
	Month			Grass Minimum		Underground (Mean)		Difference from Average		
					(Mean)	1 ft.	4 ft	Total Duration	(29 years)	
					°F.	°F.	°F.	Hours	Hours	
January		100			36 - 5	42.6	46 -0	34 -1	- 19.2	
February					37 -3	42 -3	44 -9	59 -8	- 16.3	
March					31 -4	40 -0	43 -8	106 -1	- 12 -1	
April					41 .8	48 - 6	46 .2	108 -2	- 57 -6	
May					43 .0	55 -3	51 .0	207 -2	+ 5.7	
June					46.9	60 .3	55 - 2	181 -7	- 36 -8	
July					52 .0	62 -5	58 -1	124 -2	- 83 -8	
August					51 -4	63 -9	60 -1	233 -1	+ 46.6	
September	3444				46 - 7	59 -1	59 -2	159 -7	+ 13-4	
October					43 -1	53 -7	56 -4	82 -0	- 24 -0	
November			***		34 .3	45 -9	51 -9	56 -6	- 9.2	
December			****		31 -2	40 .4	46 .5	48.0	- 1.2	
					41 -3	51 -2	51 -6	1,400 · 7*	194 -5	

* =31.5 % of possible duration and a daily average of 3.82 hours.

RAINFALL.

		Difference	Greatest Fa	ll in 24 hours*	Number of	
Month	Total	Total from Average (48 years)	Amount	Day	Rain-days (0·01 inch or more)	Duration
lanuary	Inches 4 ·90	Inches + 0.95	Inches 0 ·84	5th	24	Hours 103.75
February	 6.39	+ 3.46	0.86	7th	26	143 -00
March	 3 .72	+ 0.75	0.74	17th	21	68 - 75
April	 3 -84	+ 1.14	0.68	15th	16	69 -00
May	 2 .35	- 0.23	0.36	21st	13	39 - 25
lune	 1.10	- 1 .53	0.37	12th	13	17 -25
July	 3.12	+ 0.15	1 .36	15th	15	43.50
August	 0.38	- 3 .64	0.26	16th	5	15.25
September	 1.94	- 1 .25	0.60	9th	17	34 .50
October	 4 -09	- 0.72	1 -49	29th	11	58 -25
November	 2 .40	- 1 -40	0.91	22nd	14	42 - 50
December	 2 .24	- 2 .42	0.46	10th	15	49 -00
	36 -47	- 4.74	1 .49	29th Oct.	190	684 -00

XXII.-MISCELLANY.

Ambulance Facilities.—Ten motor ambulances are available for use in Cardiff. Five are owned by the Corporation—Isolation Hospital, two; Llandough Hospital, one; Police, two. One belongs to the Cardiff Royal Infirmary, one to the Prince of Wales Hospital, two to the Order of St. John of Jerusalem (Priory for Wales) and one is privately owned.

Disinfection.—Disinfection was carried out at 409 houses during the year, and 8,989 articles of bedding, clothing, etc., were removed to and disinfected at the Disinfection Station; 498 infected articles were destroyed by arrangement with or at the request of the owners.

Cleansing Station.—The total number of baths for scabies, pediculosis, etc., undertaken at the Cleansing Station was 454.

Public Mortuary.—Ninety-six bodies (74 males, 22 females) were taken to the Public Mortuary and 48 post-mortem examinations were performed there.

PORT HEALTH SERVICE.

I.—CONSTITUTION, LIMITS OF JURISDICTION, ETC., OF THE CARDIFF PORT HEALTH AUTHORITY.

The Cardiff Port Sanitary (now Health) Authority was constituted in 1882 by a Provisional Order of the Local Government Board (now the Ministry of Health), which was made under section 287 of the Public Health Act, 1875. By a Provisional Order, dated 27th July, 1893, the limits of jurisdiction of the Authority were extended, and on 15th September, 1894, an Order, which came into operation on 9th November, 1894, was made constituting the Authority permanently.

Section 5 of the Public Health Act, 1936, which came into operation on 1st October, 1937, provided that Port Sanitary Districts and Port Sanitary Authorities constituted under any previous Act are to be known as and styled Port Health Districts and Port Health Authorities. The Cardiff City Council, as the Cardiff Port Health Authority, on 26th July, 1937, decided to ask the Minister of Health to make an Order amending the Order constituting the Authority, so as to conform with the Local Government Act, 1933, and the Public Health Act, 1936.

Under the Order of 1894 the Council of the Borough (now City) of Cardiff was constituted the Port Sanitary Authority for the area. The Order provided that the "Authority may from time to time appoint Committees consisting of members of such Authority for the exercise of any powers, which, in the opinion of such Authority, can be properly exercised by Committees, but the acts of every such Committee shall, unless otherwise directed by the Port Sanitary Authority, be submitted to such Authority for approval." The Order also previded "that a Committee so appointed shall in no case be authorised to borrow money or to issue any precept for contributions or to enter into any contract."

The jurisdiction of the Authority extends to so much of the Port of Cardiff as is comprised within the following lines:—"A straight line drawn south from the seaward extremity of the common boundary of the Parishes of Sully and Lavernock to the boundary of the said Port and a line following and coincident with the boundary of the said Port from its commencement at the River Rumney to the point at which the straight line firstly hereinbefore mentioned meets such boundary, together with the water of the said Port of Cardiff within such limits, and the place or places for the time being appointed as the Customs Boarding Station or Stations for such part of the said Port, and every other place for the time being appointed for the mooring or anchoring of ships for such part of the said Port under any regulations for the prevention of the spread of diseases issued under the authority of the Statutes in that behalf, and the docks, basins, harbours, creeks, rivers, channels, roads, bays and streams belonging to such part of the said Port." The district therefore includes the waters contiguous to Penarth Urban and Cardiff Rural Districts.

The Authority have all the powers, rights, duties, capacities, liabilities and obligations of an Urban Sanitary Authority under certain sections of the Public Health Acts "so far as those sections are applicable to waters within the jurisdiction of" the Authority "or to ships coming or being within the said jurisdiction, or to persons upon any such ship or brought by any such ship within the said jurisdiction, or to goods or things upon any such ship, or to goods or things landed from any such ship, and being within the said jurisdiction, and which in the opinion of the said Authority or their Medical Officer of Health requires to be disinfected or destroyed."

II.—SHIPPING ENTERING THE PORT.

The following table (compiled from information kindly supplied by H.M. Collector of Customs) shows the annual number of arrivals and tonnage of vessels since 1928:—

Year	Nun	MBER OF ARRIV	ALS	Tonnage				
1 cal	From Foreign	Coastwise*	Total	From Foreign	Coastwise*	Total		
1928	3,205	4,530	7,735	3,389,525	1,695,890	5,085,415		
1929	3,531	4,601	8,132	3,652,185	1,891,215	5,543,400		
1930	3,210	4,368	7,578	3,182,124	1,820,183	5,002,307		
1931	2,433	4,271	6.704	2,467,542	1,689,505	4,157,047		
1932	2,089	4,401	6,490	2,337,218	1,702,412	4,039,630		
1933	1,903	4,388	6,291	2,017,207	1,778,635	3,795,842		
1934	1,791	4,567	6,358	1,891,385	1,858,569	3,749,954		
1935	1,804	4,137	5,941	1,935,007	1,939,521	3,874,528		
1936	1,729	4,244	5,973	1,752,174	2,007,477	3,759,651		
1937	1,876	4,601	6,477	1,887,637	2,265,038	4,152,673		

The number and tonnage of vessels entering the port (including Penarth) inspected by officers of the Port Health Authority during 1937 are set out below:—

Ministry of Health Table A.

			Number	Tonnage	Number I	Number Inspected by		Number of Vessels on which	Number of Vessels reported as having or having had
					Medical Officer	Sanitary Inspector	reported defective	defects were remedied	during the voy- age infectious disease on board
	Steamers		1,526	1,737,132	78	547	268	236	14
From	Motor		243	138,984	14	71	10	6	-
Foreign	Sailing	****	101	9,437	5	16	-	_	_
	Fishing		6	2,084	_	_	-	-	_
Tota	l Foreign		1,876	1,887,637	97	634	278	242	14
	(Steamers		1,479	1,800,901	6	467	215	200	11
Coastwise	Motor		323	184,457	-	47	12	8	_
Coastwise	Sailing		55	8,761	_	3	1	_	_
	Fishing		335	38,717	-	17	6	6	-
Tota	al Coastwise		2,192	2,032,836	6	534	234	214	11
Total Forei	gn and C'stw	rise	4,068	3,920,473	103	1,168	512	456	25

^{*} Including tugboats, sand barges, pleasure steamers, etc.

The following table shows the number of vessels entering the port which were dealt with by the department each month during 1937:—

	Month		From Foreign	Coastwise	Total
January			 139	204	343
February			 149	176	325
March	****	****	 173	199	372
April		****	 157	187	344
May	****		 147	149	296
June	****	****	 156	180	336
July			 157	181	338
August	****		 146	174	320
September	****		 162	179	341
October	****		 165	198	363
November			 159	189	348
December			 166	176	342
	Total		 1,876	2,192	4,068

The nationalities of the several types of vessels entering the port which were dealt with by the department during 1937 are shown in the following table:—

American (U.S. Belgian	ity	Steam	Motor	Sailing	Total
Belgian Brazilian British Chinese Danish Dantzigian Dutch Egyptian Esthonian Finnish German Greek Hungarian Italian Japanese Japanese Latvian Norwegian Portuguese Rumanian Russian	(U.S.A.)			1	3
Brazilian British Chinese Danish Dantzigian Dutch Egyptian Esthonian Finnish French German Greek Hungarian Italian Japanese Latvian Norwegian Portuguese Rumanian Russian		22		-	22
Chinese Danish Dantzigian Dutch Egyptian Esthonian Finnish French German Greek Hungarian Italian Japanese Latvian Norwegian Portuguese Rumanian Russian		1	_	_	1
Danish Dantzigian Dutch Egyptian Esthonian Finnish French German Greek Hungarian Italian Japanese Latvian Norwegian Portuguese Rumanian Russian		2,273	323	55	2,651
Dantzigian Dutch Egyptian Esthonian Finnish German Greek Hungarian Italian Japanese Latvian Norwegian Portuguese Rumanian Russian			_	_	3
Dutch Egyptian Esthonian Finnish French German Greek Hungarian Italian Japanese Latvian Norwegian Portuguese Rumanian Russian		72	2	_	74
Egyptian Esthonian Finnish French German Greek Hungarian Italian Japanese Latvian Norwegian Portuguese Rumanian Russian		. 1	_	_	1
Esthonian Finnish French German Greek Hungarian Irish Italian Japanese Latvian Norwegian Portuguese Rumanian Russian			84	-	93
Esthonian Finnish French German Greek Hungarian Irish Italian Japanese Latvian Norwegian Portuguese Rumanian Russian		3	_	-	3
French German Greek Hungarian Irish Japanese Latvian Norwegian Portuguese Rumanian Russian		65	_	_	65
German Greek Hungarian Irish Italian Japanese Latvian Norwegian Portuguese Rumanian Russian				-	32
Greek Hungarian Irish Italian Japanese Latvian Norwegian Portuguese Rumanian Russian	****		98	99	381
Hungarian Irish Italian Japanese Latvian Norwegian Portuguese Rumanian Russian			-	-	43
Irish Italian Japanese Latvian Norwegian Portuguese Rumanian Russian			1	-	114
Italian Japanese Latvian Norwegian Portuguese Rumanian Russian			-	-	4
Japanese Latvian Norwegian Portuguese Rumanian Russian		52	17	1	70
Latvian Norwegian Portuguese Rumanian Russian			-	_	27
Norwegian Portuguese Rumanian Russian	****		-	-	2
Portuguese Rumanian Russian			-	-	24
Rumanian Russian			12	-	193
Russian		8	2	_	10
			-	_	2
Spanish			5	_	21
			1 1	-	46
Swedish			21	_	161
Yugo-Slav		22	_		22
Total			566	156	4,068

III.—CHARACTER OF TRADE.

Passenger Traffic.—The passenger traffic at the port is relatively small and casual and cannot be classified in the form prescribed by the Ministry of Health (Table B). The numbers of inward and outward passengers, all of whom travelled by cargo vessels, were 259 and 137 respectively.

Cargo Traffic.—The principal imports are iron ore, pitwood, fruit, vegetables, grain and provisions. The principal exports are coal, coke, patent fuel and flour. Amongst the countries and places with which the port trades mainly are Spain, France, Portugal, Italy, Norway, the Baltic Ports, United States of America, Argentina, Brazil, Canada and North Africa.

The following figures regarding imports and exports during 1928-37 have kindly been supplied by the Chief Docks Manager:—

Year	Imports (tons)	Exports (tons)
	(cons)	(10115)
1928	1,730,940	8,970,143
1929	1,981,165	10,144,026
1930	1,711,970	8,963,328
1931	1,451,436	7,543,488
1932	1,185,010	6,944,230
1933	1,179,451	6,482,230
1934	1,250,725	6,584,936
1935	1,274,694	6,631,882
1936	1,560,034	5,530,620
1937	1,781,516	6,281,142

IV.-WATER SUPPLY.

The water supply for the port and shipping is derived entirely from the Cardiff

Corporation supply by means of hydrants installed at convenient points.

Section 75 of the Cardiff Corporation Act, 1894, provides that "where the Medical Officer of Health of the Cardiff Port Sanitary Authority is satisfied that the water in any tank, cistern, cask or other fixed receptacle in any ship, vessel or boat within the district of that authority, used or likely to be used by man for drinking or domestic purposes, is so polluted as to be injurious to health, the Medical Officer of Health of such Authority may cause to be emptied and cleansed any such tank, cistern, cask or other fixed receptacle." This simplifies the procedure, because under section 140 of the Public Health Act, 1936, an order of a court of summary jurisdiction would first have to be obtained.

During the year, 119 samples of drinking water from ships were submitted to the Cardiff and County Public Health Laboratory for bacteriological examination, the results being as follows:—

Satisfactory		****	99
Moderate purity			15
Doubtful purity		****	2
Contaminated	****		3
Total			119

Notices were served on the masters of the vessels having contaminated water or water of doubtful purity on board, and in all instances the tanks were emptied, cleansed, and refilled at this port.

V.—PORT SANITARY REGULATIONS, 1933.

The arrangements made for the operation of the Port Sanitary Regulations, 1933 were fully described in the annual report for 1933.

Wireless Installations.—The results of inquiries made during the year regarding the number of vessels carrying wireless installations (excluding vessels under 500 net registered tons) are shown in the following table:—

		Vessels ar	rriving	Total
		From Foreign	Coastwise	Total
With Wireless Without Wireless		837 269	624 140	1,461 409
Total	****	1,106	764	1,870

These inquiries have been undertaken since 1926, and it will be seen from the following table that there has been a slight increase in the proportion of vessels with wireless installations arriving at this port:—

	Percentage of V	essels with Wireless	Installations
Year	From Foreign	Coastwise	All Arrivals
1926	67 - 3	52 · 1	63.9
1927	75.6	74 -8	75.4
1928	78.6	67.0	75.4
1929	74 .8	68.8	73.2
1930	69.9	72.0	70.5
1931	71.1	77 -2	72.9
1932	67 -1	69.2	67 -8
1933	67.9	77.5	71.4
1934	69.7	77.8	72.8
1935	68.4	78.8	72.4
1936	75.2	81.3	77 -8
1937	75.7	81.7	78.1

Cases of Infectious Disease landed from Vessels.—The following table shows the nature of eight cases of notifiable infectious diseases landed from vessels during the year:—

Ministry of Health Table C.

Disease	Number of Cases	during 1937	Number of Vessels	Average Number of Cases for
Disease	Passengers	Crew	concerned	previous 5 years
Pneumonia	 _	1	1	0.6
Malaria	 _	2	2	7.6
Tuberculosis	 -	5	5	2 · 8

The cases referred to in the above table were dealt with as follows:-

Diseas	se	Admitted to Royal Hamadryad Seamen's Hospital	Allowed to return Home	Treated aboard Ship	Total
Pneumonia Malaria Tuberculosis		 1 4*	1		1 2 5
Total		 5	1	2	8

^{*} Three of these were subsequently repatriated.

Other Cases of Infectious Disease.—Nine other cases of infectious disease that were dealt with by the port health staff were ascertained to fall properly within the province of urban administration and were therefore referred to the districts to which they belonged, as follows:—

Disease	Cardiff	Barry	Total
Pneumonia Malaria Tuberculosis	1 2 5		1 3 5
Total	8	1	9

Cases of Infectious Disease occurring on Vessels during the Voyage but disposed of prior to Arrival.—Nineteen cases of infectious disease were reported to have occurred on 17 vessels during the voyage and were disposed of prior to arrival.

Ministry of Health Table D.

Diseas			Number of Cases	s during 1937	Number of Vessels	Average Number of Cases for
Discas		100	Passengers	Crew	concerned	previous 5 years
Pneumonia			_	5	5	1.2
Dysentery			_	1	1	0.4
Malaria	****		_	11	9	6.8
Tuberculosis			_	2	2	2.4

Cleansing and Disinfection.—Thirty-seven seamen discovered to be suffering from scabies were treated at the Cleansing Station belonging to the Cardiff City Council, their clothing being disinfected at the Disinfecting Station, which is situated adjacently. One-hundred and fifty-three vessels were reported to be infested with bugs, and, after inspection, notices were served requiring the masters to take all necessary steps to eradicate them. Verminous or infected beds to the number of 1,377 were destroyed.

Venereal Diseases.—The following tabular statement shows the number of cases of venereal diseases dealt with at the special treatment centre for seamen at the Royal Hamadryad Seamen's Hospital each year since 1928:—

	Persons	attending a	t the Cent	re for the Firs	t Time	Total	Ammanata
Year	Syphilis	Soft Chancre	Gonor- rhoea	Conditions other than Venereal	Totals	Attendances	Aggregate Number of In-patient Days
1928	205	83	344	14	646	15,347	3,195
1929	239	96	348	21	704	15,027	2,093
1930	235	112	367	17	731	12,670	1,639
1931	176	84	209	18	487	9,853	1,372
1932	198	95	297	19	609	10,004	1,707
1933	194	86	255	14	549	9,918	2,220
1934	190	90	285	25	590	9,717	2,185
1935	186	80	295	28	589	9,674	2,261
1936	164	93	324	20	601	9,455	2,312
1937	109	113	346	32	600	9,944	2,407

The treatment centre forms part of the scheme of the Cardiff City Council for the diagnosis and treatment of venereal diseases, and further details of the work undertaken during 1937 are contained in the report on the general health service of the city.

Twenty cases of venereal disease came to the knowledge of officers of the Authority during the year and were recommended for treatment at the centre.

Psittacosis.—The number of parrots dealt with under the Parrots (Prohibition of Import) Regulations, 1930, with the object of preventing the introduction of psittacosis, was 53.

VI.-MEASURES AGAINST RODENTS.

It is a routine duty of inspectors to examine all vessels carefully for evidence of rat infestation. Deratisation of vessels is carried out by sulphur dioxide or hydrocyanic acid gas, the work being undertaken by private contractors under the supervision of officers of the department. During the year, 1,331 rats were destroyed by this method, and, of these, 328 were submitted to the Cardiff and County Public Health Laboratory for examination for the detection of plague.

During 1937 the number of deratisation certificates issued was 121 and the number of deratisation exemption certificates issued was 288, making a total of 409. The fees received by the Port Health Authority in respect of certificates during the year amounted to £773 6s. 6d.

On all vessels from plague-infected ports and on all grain-laden vessels arriving at the port a rat-catcher is employed. By this means 365 rats were caught, 94 of which were examined for plague.

In order to prevent the passage of rats from ships to the shore, the use of rat-guards on mooring ropes is insisted upon, and gangways are raised at night-time whenever possible. Advice regarding the rat-proofing of vessels is given to masters and other officers of ships.

Systematic visits are paid by inspectors to quays, wharves and warehouses in the vicinity of the docks, and owners and occupiers are advised as to the best means of eradicating rodents. In most instances warehouses are reasonably rat-proof, possessing concrete floors and sliding, close-fitting doors. The importance of rendering all buildings near the docks rat-proof is constantly emphasised on owners and occupiers by the inspectors.

Extensive baiting around the docks is undertaken systematically by the dock owners (the Great Western Railway Company) and by owners and occupiers of premises in the vicinity of the docks under the supervision of officers of the department. During the year, 190,409 poison baits were laid and 707 rats and 32 mice were found dead

as a result of these measures.

For the purpose of surveying the area around the docks for rats periodically, the district is divided into four areas, as follows:—

- No. 1. Penarth Dock, Windsor Slipway to Glamorganshire Canal Entrance.
- No. 2. Glamorganshire Canal, West Dock to West Side of East Dock.
- No. 3. East Side of East Dock to North Side of Roath Dock.
- No. 4. South Side of Roath Dock, Roath Basin and Queen Alexandra Dock.

A rat-catcher is engaged for a period of one week on each area. Traps are set and the live rats caught are submitted to the Department of Zoology of the National Museum of Wales for classification and for identification of their parasitic fleas and later to the Cardiff and County Public Health Laboratory to be examined for plague.

The whole district is surveyed in this way at least once every four weeks, and valuable information is being obtained as to the prevalance of rats, their species and the extent of their infestation by fleas. During the year, 61 rats were caught under this scheme, of which 19 were submitted for classification and for examination for plague.

Leaflets containing full information regarding deratisation of ships are issued to

(a) shipowners and shipping agents and (b) fumigation contractors.

The following table shows the numbers of deratisation and deratisation exemption certificates issued during each year since 1929:—

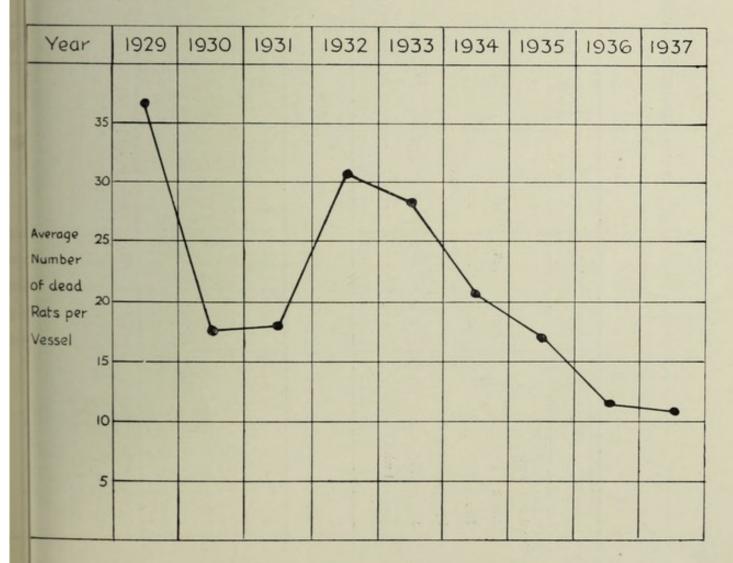
Year		sation ficates	Deratis Exem Certifi	ption	Total
	Number	Percentage	Number	Percentage	
1929	 181	62	110	38	291
1930	 236	36	420	64	656
1931	 195	195 32		68	602
1932	 121	23	411	77	532
1933	 124	26	353 74	74	477
1934	 126	126 28		72	454
1935	 109	23	357	77	466
1936	 126	30	295	70	421
1937	 121	30	288	70	409

The increase in the numbers during 1930 was due to the effect of the Public Health (Deratisation of Ships) Regulations, 1929, which became operative on 1st January, 1930, but which have since been replaced by the Port Sanitary Regulations, 1933.

The following table shows the number of fumigations of vessels, the total number of dead rats found after fumigation and the average number of dead rats found per vessel during each of the years 1929-1937:—

Year	Number of Fumigations of Vessels	Total number of Rats found dead after Fumigation	Average Number of dead Rats found per Vessel
1929	181	6,697	37 .00
1930	236	4,241	17 -97
1931	195	3,530	18 -10
1932	121	3,725	30 - 79
1933	124	3,532	28 -48
1934	126	2,584	20 -51
1935	109	1,908	17 -50
1936	126	1,517	12 .04
1937	121	1,331	11.00

Diagram showing the decline in the average number of dead rats found per vessel after fumigation since 1929:—



RATS DESTROYED DURING 1937.

Ministry of Health Table E.

(a) Vessels.	Jan. Feb. Mar. April May June July Aug. Sept. Oct. Nov. Dec. Total in Year		167 145 313 78 61 283 64 124 218 117 92 34			27 49 46 21 22 36 18 37 50 44 48 24		
				-		-		
		Number of Rats—	Black	Brown	Species not recorded	Examined	Infected with Plague	

F.	Warehouses.
ce	>
1 aore	and
of Heatin	Wharves
5	>
Ministry	Ouavs.
IM	Docks.
	(9)

				not (a)	na, can	ays, we	(a) Docks, guays, What ves and Watehouses.	וות וו מו	coenone.	The state of the s	100		-	
		Jan.	Feb.	Jan. Feb. Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total in Year
Number of Rats-														
Black	-	6	14	1	10	63	1	1	6	1	67	1	67	49
Brown	1	1	1	1	1	1	2	9	1	1	1	4	1	12
Species not recorded	1	ш	107	17	14	180	46	31	44	39	38	39	41	707
Examined	-	5	-	1	9	67	. 2	1	4	1	1	1	1	19
Infected with Plague	-	1	1	1	1	1	1	1	-	1	1	1	1	-
The second second second second	1													The second second

MEASURES OF RAT DESTRUCTION ON PLAGUE "INFECTED" OR "SUSPECTED" VESSELS OR VESSELS FROM PLAGUE-INFECTED PORTS ARRIVING IN THE PORT DURING THE YEAR. Ministry of Health Table G.

46482	1
Number of such Vessels on which measures of Rat destruction were not carried not	78
Number of Rats killed	162
Number of such Vessels on which trapping, poisoning, &c., were employed	10*
Number of Rats killed	7.4
Number of such Vessels fumigated by HCN	64
Number of Rats killed	154
Number of such Vessels fumigated by SO ₂	4
Total Number of such Vessels arriving	68

*Three of these were also fumigated by SO2 and two by HCN and are included in columns 2 and 4.

Ministry of Health Table H.

DERATISATION CERTIFICATES AND DERATISATION EXEMPTION CERTIFICATES ISSUED DURING THE YEAR.

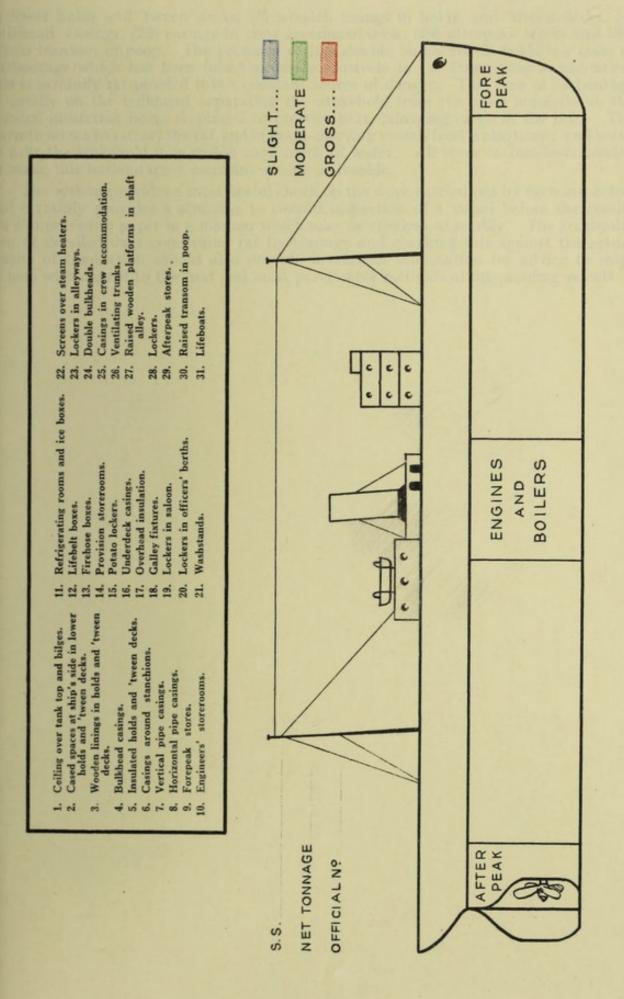
	Total Certificates Issued		81 56 176 96	409	
Number of	Deratisation Exemption	Certificates	œ	8 5 5 4 1 5 5 6 6 1	588
		Total	7	2,54	121
es issued	After Trapping, Poisoning, etc.		9	11111	1
sation Certificat		HCN and Sulphur	9	11111	1
Number of Deratisation Certificates issued	After fumigation with	Sulphur	4	1 32 33 1	96
N		HCN	63	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	25
	Number of Ships		01	81 56 176 96	409
	NET TONNAGE			Ships up to 300 tons " from 301 tons to 1,000 tons " from 1,001 tons to 3,000 tons " from 3,001 tons to 10,000 tons " over 10,000 tons	Total

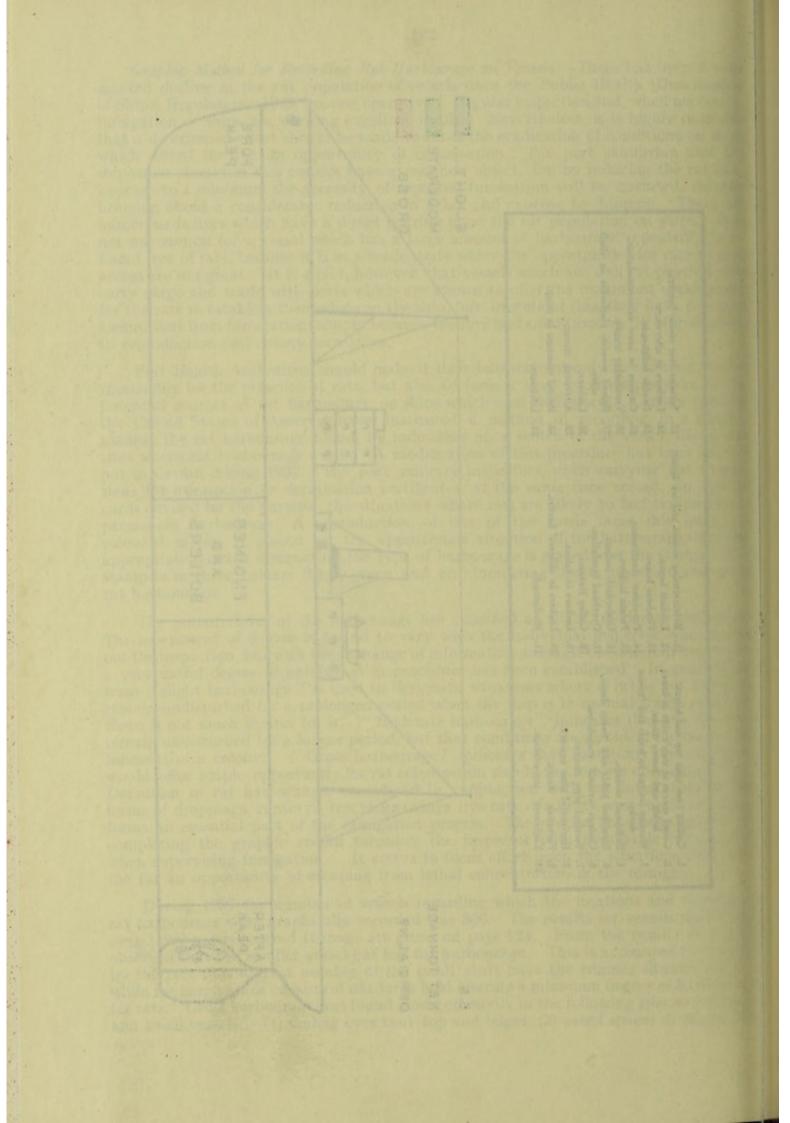
Graphic Method for Recording Rat Harbourage on Vessels.—There has been a very marked decline in the rat population of vessels since the Public Health (Deratisation of Ships) Regulations, 1929, became operative. Regular inspection and, when necessary, fumigation of ships are showing excellent results. Nevertheless, it is highly desirable that a determined effort should be made towards the eradication of conditions on ships which afford the rat an opportunity of colonisation. The port sanitarian and the shipowner should in this respect have a common object, for by reducing the rat harbourage to a minimum the necessity of repeated fumigation will be obviated, thereby bringing about a considerable reduction in delay and expense to shipping. There are numerous factors which have a direct bearing upon the rat population on ships. It is not uncommon for a vessel which has a large amount of harbourage repeatedly to be found free of rats, because it is in a trade route where the opportunities for rats to gain access are not great. It is a fact, however, that vessels which are well rat-proofed may carry cargo and trade with ports which are known to offer the maximum opportunity for the rats to establish themselves on the ship, but, in spite of this, they have repeated exemptions from fumigation, simply because the rats find conditions on the ship inimical to reproduction and colony formation.

Port Health Authorities should make it their business not only to examine vessels thoroughly for the presence of rats, but also to form a very good estimate as to the potential sources of rat harbourage on ships which visit their ports. Certain ports in the United States of America have instituted a method of recording in a graphic manner the rat harbourage found, by indicating on a sketch of the vessel the actual sites where rat harbourage exists. A modification of this procedure has been carried out in Cardiff during 1937. The port sanitary inspectors, when carrying out inspections for exemption or deratisation certificates, at the same time record, on special cards devised for the purpose, the situations where rats are likely to find temporary or permanent harbourage. A reproduction of one of the cards faces this page. A coloured stamp is placed on the approximate situation of the harbourage, and the appropriate number designating the type of harbourage is placed over the stamp. The stamp is in three colours (blue, green and red) indicating slight, moderate and gross rat harbourage.

The potentialities of the harbourage are classified as slight, moderate and gross. The assessment of degree is bound to vary with the individual inspector who carries out the inspection, but with the exchange of information amongst the different inspectors a very useful degree of unification in procedure has been established. In general the term "slight harbourage" is used to designate situations where a rat is not likely to remain undisturbed for a prolonged period when the ship is in normal traffic or where there is not much shelter for it. "Moderate harbourage" indicates that the rat may remain undisturbed for a longer period, but that conditions are not ideal for the estab-"Gross harbourage" indicates that conditions prevail which lishment of a colony. would offer ample opportunity for rat colonisation should the rodents once gain access. Definition of rat harbourage, considered in conjunction with rat infestation in the forms of droppings, runways, tracks, gnawings, live rats, dead rats, nests and rat odour, forms an essential part of the fumigation process. The precise knowledge gained by completing the graphic record furnishes the inspector with invaluable information when supervising fumigation. It serves to focus effort upon the situations that offer the rat an opportunity of escaping from lethal concentration of the fumigant.

During 1937 the number of vessels regarding which the locations and degrees of rat harbourage were graphically recorded was 306. The results for vessels under and over 1,500 net registered tonnage are given on page 124. From the results it will be observed that the smaller vessel has less rat harbourage. This is accounted for largely by the fact that a great number of the small craft have the engines situated astern, while the cargo space consists of one large hold offering a minimum degree of harbourage for rats. Gross harbourage was found most commonly in the following sites in the large and small vessels:—(1) Ceiling over tank top and bilges, (2) cased spaces at ship's side





in lower holds and 'tween decks, (3) wooden linings in holds and 'tween decks, (4) bulkhead casings, (25) casings in crew accommodation, (29) afterpeak stores and (30) raised transom in poop. The presence of (24) double bulkheads in holds is a class of harbourage which has been found almost exclusively in the larger vessels, and unless this is carefully rat-proofed it is a constant source of danger. This type of harbourage is usually on the bulkhead separating the stokehold from the cross bunkerhold, the wooden insulation being so placed to prevent heat damaging cargo in the hold. The warmth seems to attract the rat, and in grain-carrying vessels food is also near; and being so near the stokehold it is within easy reach of water. All these factors have tended to make this harbourage a constant source of trouble.

The system provides a most useful check on the work carried out by each inspector, and certainly provides a stimulus to careful inspection of a vessel before the results are committed to paper in a manner which may be checked so readily. The accumulation of detailed data concerning rat harbourage and checking this against the actual results of fumigation should also provide invaluable information for advice to shipowners with regard to the best and most practicable methods of rat-proofing vessels.

LOCATION AND DEGREES OF RAT HARBOURAGE.

1		1	26 Vessels	under 1	126 Vessels under 1 500 Net Tonnage	onnage		180 7	essels over	180 Vessels over 1 500 Net Tonnage	et Tonna	ge	
	Site of Harbourage	Slig	Slight	Mod	Moderate	Gre	Gross	Slig	Slight	Mod	Moderate	Gr	Gross
		Number	Percent-	Number	Percent- age	Number	Percent- age	Number	Percent- age	Number	Percent-	Number	Percent-
-	Ceiling over tank top and bilges	00	6.3	13	10.3	69	54.7	m	1.1	22	12.2	141	78.3
ci	Cased spaces at ship's side in lower holds	13	10.3	-	5.5	14	11.11	51	28.3	27	15.0	24	13.3
e	Wooden linings in holds and 'tween decks	4.5	20.50	66	1.7	23	18.2	19	6.1	14 8	7. 4	13	30.0
4. 10	Fullkhead casings Insulated holds and 'tween decks	1 1	0 1	1		1	1	20		1	9.0	63	1.1
6.	Casings around stanchions	30	23.8	co =	4.2		8.0	119	63.8	9 [1	6.50	11	11
-0		333	26.92	* 1-	5.5	1	0	98		6	5.0	1	1
. 6	Forepeak stores	64	50.8	32		-	8.0	77	42.8	96	53.3	01 -	1.1
10.	300	0.01	55.5	10	2.22	11	11	46	25.5	89	37.8	-	3
12.	Lifebelt boxes	44		*	3.5	1	1	113		10	5.5	1	1
13.		34		4 0	20.00	1	0	109	60.09	63	0.0	1	9.0
14.	rooms	35	7. 40	27 4	3.5	1	0.1	95	52.7	27	15.0	-	. 1
16.	Underdeck casings	21	9.91	10		1	1	66	92.0	18	10.0	-	9.0
17.		21	9.91	400	2000	1	1	74	41.1	101	2.1.2	11	11
18.		48	38 . 1	43	34.1	-	8.0	84	9.92	119	1.99	-	9.0
20.	Lockers in officers' berths	48	38 .1	45	35.7	1	1	99	36.6	103	55.0	-	9.0
21.	Washstands	27	4.12	23 00	\$.02 7.02	11	11	2 00	1.02	6	5.0	11	1
93.	Tockers in alleyways	1 67	9.1	001		1	1	19	10.5	10	5.5	13	12
24.	Double bulkheads	-:	8.0	- 1		-	8.0	33	1.6	14	8. 20	14	× ×
25.	Casings in crew accommodation	19	0.07	34	0.12		8.0	9	3.3	7	8.8	- 1	3
20.	Raised wooden platforms in shaft alley	18	14.3	333	26.3	-	1	. 22		119		4	2.2
28.	Lockers	26	9.02	28	22.2	1	1	31	17.2	87	48.3	100	10.4
29.		27	21.4	33	15.8	20 00	25 A	3 62	9.1	38	21.1	34	18.9
31.	Lifeboats	40	31.7	09	47.6	1	1	26		138	2.92	63	1.1
1		1	1	1								-	1

VII.—HYGIENE OF CREW SPACES, ETC.

During the year, 4,068 vessels, with a total tonnage of 3,920,473, were visited by inspectors on arrival or as soon afterwards as practicable. The number of persons in the crews carried by these vessels was 73,987. In addition, 4,270 re-inspections of ships in dock were made, and 512 orders were given to masters and others in connection with nuisances and sanitary defects.

Ministry of Health Table J.

CLASSIFICATION OF NUISANCES.

Nationality of Vessel	Number Inspected during the year	Defects of original construction	Structural defects through wear and tear	Dirt, vermin and other conditions prejudicial to health
British	702	37	596	880
Other Nations	466	72	304	167

The following table shows the number of the defects referred to in the preceding table which were remedied during the year:—

Nationality of Vessel	Defects of original construction	Structural defects through wear and tear	Dirt, vermin and other conditions prejudicial to health
British	17	518	874
Other Nations	25	230	160

Th

ne	defects	and nuisances	dealt with	during	1937	were as	follows :-	_
	Insuffici	ent ventilation						68
	,,	lighting						16
	Defectiv	ve ventilators						57
	. ,,	skylights and	deck-lights					20
	,,	steam heaters	, stoves, stov	re-pipes,	etc.			97
	,,	sanitary conve	eniences, flus	shes, etc.				139
	,,	side ports, dec	k-prisms, et	c.				264
	,,	bulkheads						10
	.,	floors						30
	**	doors						16
	,,	bunks and bed	lsteads				****	33
	,,	food-lockers						118
	,,	baths, wash-ha	and basins a	nd waste	e-pipes			42
	,,	drain pipes						10
	,,	cable casings						10
	,,	hawse-pipes						9
	Leaking	decks						70
	Vermino	ous crew quarter	s					265
	Dirty cr	ew quarters						344

Dirty messrooms			 	 91
,, food-lockers			 	 99
,, sanitary convenien	ces		 	 122
,, bathrooms and was	sh-houses		 	 33
" fresh-water tanks			 	 10
Foul bilges			 	 5
Foul accumulations			 	 55
Miscellaneous			 	 23
	То	tal	 	 2,056

Owing to more detailed inspections of vessels, greater numbers of structural defects and of conditions attributed to dirt and vermin have been recorded than in

preious years.

During 1937 a number of recently constructed vessels arrived at the port, and it is satisfactory to be able to record that on each of them much thought had been directed to improvement in the construction of the accommodation for crew. In these new vessels central heating installation for the heating of berths, messrooms, drying rooms and wash-houses was provided, and improved ventilation and lighting and the provision of separate messrooms, food-lockers, clothes-lockers, oilskin-lockers, wash-houses and water-closets of the pedestal type, with adequate flushing arrangements, were also notable features.

Although the improvement made in the crew accommodation on new vessels is gratifying, there is much leeway to be made up on the older type of vessel. This question is receiving the close attention of the department and, with the co-operation of the Board of Trade, several vessels have been reconditioned in order to bring them as near as possible to the standard laid down for new vessels. The co-operation and assistance of the Principal Officer and the Surveyors of the Board of Trade have been invaluable and are very much appreciated.

VIII.—FOOD INSPECTION.

Examination of imported food is carried out by the food inspectors in the dock-

side warehouses and occasionally on board ships.

The principal food imports during the year were from Australia and New Zealand and consisted of beef, mutton, pork, lamb, offal, butter, cheese, flour and fresh and dried fruits. From Canada and United States of America lard, cheese, flour, cereals, canned meats, fruit and fish were imported, and from European countries condensed milk, cheese, bacon, fresh tomatoes, canned tomatoes, dried and canned fruits and vegetables. Additional to these direct imports, large quantities of foodstuffs, transshipped at other ports in the United Kingdom, arrived by coastwise traffic.

A percentage examination of all food is made. If the food examined is found to be in good condition, the whole consignment is released for distribution, but if found to be diseased or unsound the whole consignment is detained until a complete examination is carried out. Diseased and unsound articles of food are destroyed under the supervision of the food inspectors. Samples of foodstuffs are submitted to the Public Analyst and to the Bacteriologist for examination. Importers also carry out a trade examination of their goods in the warehouses under the supervision of the food

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inspectors.

A preliminary inspection of meat imports is carried out in the transit sheds on the dock-sides, the importers then being allowed to transfer the cargo to the local cold stores, where a further examination is made. The glandular examination of carcases of mutton and of lamb carcases weighing over 42 lb. was continued, but very few cases of caseous lymphadenitis were found.

Imported Foodstuffs.—The quantities of various kinds of foodstuffs imported during the year are shown in the following table :—

Description	Tons	cwt.	Bags	Bales	Barrels	Boxes	Miscellaneous
Bacon				3,149			
D		-	1,230	3,143		-	
Disamite			130		_	3	76 skips
T 11	_		300		190	19,660	140000000000000000000000000000000000000
C C	_	1	3	-		19,000	
	5	-	80	_	_	23,073	
CI	1000000	-	339		1		_
CLi	_		-	_	-	30,589 25	
D M	-	-	28	_	-	100	
Candimanta		-	20				
Contrations	_	-		_		53,185 525	_
				1000	-	6,060	
Cream, Canned	_	-	-	_	-	110	_
Eggs Fat, Edible			2,024	10	599	4,330	
Eich Conned	_	-	2,024	7222//	- 75.77	566	_
Think Daine	_		330	41		300	
THE L TO I	5,855	14		41		_	
Tri-L Thi-1-1	59		_	10000	16		
Ti-1 C-14 . 1	-	_	340				
Til	56		41,330	_	_	_	
Emil Commed	1970		41,300			34,478	
Paris Dat 1	_	1			_	7,100	
Emile David	17		7000		55,418	287,840	250 baskets
Though Today	-	-		_	100	201,040	250 baskets
Escrit Dala	_	=			199		
Clarent	_	_	_		85	_	
Hops	_			33	_		
Honey	_	_		_		1	
Lard	_					28,074	_
Macaroni	_	_	_	_		5,862	825 packets
Malt	_	_	50	_		-,002	- Packets
Margarine	-	_	_	_		32,725	_
Meat, Canned	-	-		_	_	12,115	_
Meat, Preserved	_	_		_	222	29	
Milk, Canned	_	-	_	_	118	107,722	-
Milk Dried	_	_	_	_		30	_
Nuts	_	_	154	-	_	_	_
Oats, Rolled	_	_	1,467	_		43,294	_
Olive Oil	_	_	-,	_	14	6	_
Rice	_	_	1,519	_		_	_
Salt	_	_	320	_	_	_	-
Sugar	5,870	_	15,467	_		300	_
Tomatoes, Canned	_	_		_	_	7,066	_
Tomato Juice	_	-			-	25	_
Vegetables, Canned	_	_		_	_	77,301	_
Vegetables, Dried		_	14,696	-	_	_	_
Vegetables, Fresh	_	-	277,177	_		1,439	∫33,917 basket
Vegetables, Salted	-	-	_	-	1,369	-	12,115 drums
Wheat	85,547	_	_	_	_	_	_
Wine	_	-	_	_	304	4	_
Yeast	_	_	_	_		35	_

Imported Meat.—In addition to the foodstuffs already referred to, seven cargoes of frozen meat were imported, the quantities being as follows:—

Carcases of lamb	 	72,074
Carcases of mutton	 ****	15,479
Carcases of pork	 	3,643
Carcases of veal	 	68
Quarters of beef	 ****	16,692
Ouarters of veal	 	108

Sides of pork			8
Boneless beef (bags)			756
Sundries-hearts, livers,	tongues.		
etc. (bags)	0		681
Calf livers (bags)		****	1,382
Ox livers (boxes)			3,209
Ox kidneys (boxes)			1,097
Ox tails (boxes)			967
Offal (boxes)			20
Offal (bags)			1,180

The quantities of various kinds of foodstuffs withheld from human consumption during the year were as follows:—

			Tons	cwt.	lb.
Cereals			_	_	101
Fish, Canned			_	-	11/2
Fruit, Canned			2	10	761
Fruit, Dried			-	7	65
Fruit, Fresh			81	8	- 80
Lard			_	-	57
Meat, Canned			_	1	903
Meat, Preserved	****		-	17	111
Milk, Canned			_	3	671
Milk, Dried	****	****	_	4	32
Sugar		****	1	4	0
Vegetables, Canned	****	****	1	16	75
Vegetables, Fresh			119	19	0
Wheat	****		24	1	102
	Total		232	16	961

Public Health (Imported Food) Regulations, 1925, Public Health (Imported Food) Amendment Regulations, 1933, and Public Health (Preservatives, etc., in Food) Regulations, 1925-27.—During the year, 47 samples of imported food were submitted to the Public Analyst for analysis. The nature, country of origin and number of samples are shown in the following table:—

Natu	ire			Country of Origin	Number of Samples
Cherries, Canned				Italy	1
Dried Apricots				America	1
Dried Figs			****	Greece	1
Dried Figs	****		****	Turkey	2
Dried Peaches		****		America	1
Lemon Juice				Italy	1
Pea Flour	****		****	Scotland	. 1
Raisins				America	31
Raisins				South Africa	1
Raisins				Spain	1
Sardines				Morocco	1
Sardines		****		Portugal	1
Sultanas				Greece	1
Sausage Casings		****	****	Holland	1
Tomato Ketchup				Canada	1
Tongue, Canned	****	****	****	Germany	1

Forty-two of the samples were reported to be genuine or to contain preservatives within the limits laid down by the Public Health (Preservatives, etc., in Food) Regulations, and five samples of raisins were reported to contain preservatives in excess of the prescribed limits. The consignments of raisins, comprising 950 cases from America, which contained an excess of preservatives were re-exported.

Bacteriological and Chemical Examinations.—Three samples were submitted for bacteriological examination. The nature, country of origin and number of samples are shown in the following table:—

Nature of Sample	Country of Origin	Number or	Samples
Nature of Sample	country or origin	Bacteriological	Chemical
Tongue, Canned Veal, Canned	Germany Denmark	1 2	_

The sample of canned tongue proved to be approximately sterile, the physical characters being normal. The samples of canned veal showed no evidence of bacterial growth and no gas pressure when opened, and the physical characters were good.

Public Health (Imported Milk) Regulations, 1926.—No fresh milk was imported during the year.

Public Health (Shell-fish) Regulations, 1934.—There are no shell-fish beds or layings within the area under the jurisdiction of the Port Health Authority.

IX.-MISCELLANY.

Medical Inspection of Aliens.—The following is a summary of the work done during the year in connection with the medical inspection of aliens:—

				Total	Number Inspected by Medical
				Number.	Inspectors.
Aliens (excluding alien seamen) Aliens refused permission to lan				214	100
Officer				17	_
	Tot	als		231	100
Number of vessels carrying alies	n passens	ers			74
Number of such vessels dealt w	ith by the	e Medic	al Inspe	ector	17
Analysis of aliens landing :-					0
Residents returning	****	****	****		6
In transit	****	****	****	****	
Visitors	****	****	****		66
Business		****			97
Seamen	****				39
Ministry of Labour permit-	—Males				3
Ministry of Labour permit-	-Female	S			1
Coming to settle, not holding	ng Minist	ry of L	abour p	ermit	
	Tot	tal			214

Of the 100 aliens medically inspected, 77 who intended taking up employment and remaining in the country over three months and one who came for educational purposes were referred by the Immigration Officer for detailed medical examination.

Diseases of Animals Acts, etc.—The various orders under the Diseases of Animals Acts with reference to the importation of animals were strictly enforced during the year. Two hundred and forty-nine dogs and 628 cats were brought to the port on vessels, and two vessels arrived direct from scheduled countries with three sheep and three pigs on board. All the vessels were visited regularly during their stay in port to ensure that the requirements of the Orders were observed.

One hundred and fifty-nine horses, 65 pit ponies and 2,363 head of cattle were landed at the Imported Animals Wharf during the year from Canada.

Cardiff is one of the comparatively few ports in Great Britain at which live cattlmay be imported, being licensed for this purpose by the Board of Agriculture and Fisheries. Every facility is provided for this important branch of the import trade, and the advantages offered at Cardiff have attracted during the past few years many consignments of live cattle from Canada, South Africa, and Ireland.

Considerable extensions have been carried out at the cattle lairs, where modern lairage for 760 fat or 950 light head of cattle is available. New offices have also been provided for the officers of the Ministry of Agriculture and Fisheries and representatives of the various merchants connected with the trade.

Canal Boats.—The Chief Port Sanitary Inspector, who is also Inspector of Canal Boats, has reported that he made 57 inspections of canal boats during the year and found infringements of the Regulations made under the Canal Boats Act, 1877, regarding painting in six instances. Verbal instructions were given, and the infringements in each case were remedied. The number of boats (not propelled by motor) on the register was seven, each with accommodation for two males. The sanitary condition of the canal boats generally was satisfactory.

SCHOOL MEDICAL SERVICE.

I.-STAFF.

The medical staff consists of the School Medical Officer, a Deputy Medical Officer and nine Assistant Medical Officers (including two who are engaged in a part-time capacity). The members of the medical staff devote part time only to the school medical service, as they are also engaged in the work of other sections of the Public Health Department. The staff-time devoted by the Deputy Medical Officer and Assistant Medical Officers to the school medical service is equivalent to the whole time of four medical officers. There are in addition three part-time Specialist Medical Officers—Ophthalmic, Orthopaedic and Aural Surgeons.

The other staff engaged in the school medical service comprises five Dentists, five Dental Clerk-Attendants, a Supervisor of Nurses, 11 School Nurses, a Chief Clerk and 10 Clerks (seven of whom are females). The Supervisor of Nurses, two of the Nurses who are engaged in orthopaedic work and the Chief Clerk are also employed in other

sections of the department.

Dr. G. E. Phillips, Assistant Medical Officer, who was employed in a temporary capacity from 1st October, 1936, was appointed permanently in December, 1937, as from 1st January, 1938. Mr. H. B. Wilson, Dentist, resigned on 30th September, 1937, and his place was taken by Mr. C. N. Howitt on 14th October, 1937. An additional Dentist (Mr. P. G. Oliver) and a Dental Clerk-Attendant were appointed and commenced duty on 13th September, 1937. The only other changes of staff that occurred were in the personnel of the two part-time Assistant Medical Officers on 1st October, 1937, and in the personnel of the clerical staff.

II.—CO-ORDINATION.

The school medical service is very completely co-ordinated with all other public health work under the Medical Officer of Health, who is also School Medical Officer. The service is also carried on in close co-operation with the Education Department (including school attendance officers), head teachers and all voluntary agencies in Cardiff concerned with the health and welfare of school children.

III.—SCHOOL HYGIENE.

The Public Works Department of the City Council is primarily responsible for the sanitary and structural condition of school buildings. Defects found by medical officers and sanitary inspectors, however, are reported to the Director of Education, by whom they are referred to the appropriate committee to be remedied.

IV.—MEDICAL INSPECTION.

Routine medical inspection of the following groups of children attending elementary schools was undertaken during the year, as required by the Board of Education:—

- (a) Entrants, within 12 months of admission.
- (b) Second age group, i.e., children between the ages of 8 and 9 years.
- (c) Third age group, i.e., children who had attained the age of 12 years.

Routine medical inspections are carried out at the schools and the parents of children to be examined are notified beforehand and invited to be present. Children outside the routine age groups who are considered by head teachers to require special attention are presented for inspection at the time routine inspections take place. Most of the special inspections, however, are conducted at the school clinics.

The numbers of elementary school children inspected at routine medical inspections

were as follows :-

		Boys	Girls	Total
Entrants (within 12 months of admission)		 1,650	1,620	3,270
Second Age Group (8 to 9 years)		 1,459	1,479	2,938
Third Age Group (over 12 years)		 1,318	1,338	2,656
Other Routine Inspections		 64	36	100
Total	****	 4,491	4,473	8,964

The number of elementary school children specially inspected and the number of re-inspections undertaken were as follows:—

			Boys	Girls	Total
Special Inspections	{At School Clinic	 ****	 230 2,576	336 3,010	566 5,586
	Total	 	 2,806	3,346	6,152
Re- inspections	{ At School At School Clinic	 	 549 2,363	617 2,974	1,166 5,337
	Total	 	 2,912	3,591	6,503

V.-FINDINGS OF MEDICAL INSPECTION.

Details of the diseases and defects found by routine and special medical inspection are given in Table IIA, page 158. Of the 8,964 elementary school children inspected at routine inspections, 1,942, or 21.6 per cent., were found to require treatment (excluding defects of nutrition, uncleanliness and dental disease). The percentages of the three groups requiring treatment, as compared with the percentages for the two previous years, were as follows:—

	Percentage of Children found to rec Treatment				
Age Groups	1935	1936	1937		
Entrants (within 12 months of admission) Second Age Group (8 to 9 years) I'hird Age Group (over 12 years)	18 · 2 22 · 2 22 · 5	17 · 6 19 · 0 20 · 2	19 ·8 22 · 3 23 · 3		

It will be seen that there was a slight increase in 1937 in each age group.

Of the 6,152 individual children specially inspected, 3,779, or 61 · 4 per cent., were found to require treatment (excluding defects of nutrition, uncleanliness and dental disease).

The number and proportion of elementary school children in whom diseases or defects requiring treatment or to be kept under observation were found are shown in the following table:—

Diseases or Defects		Defects found ne Inspection	Diseases or Defects found at Special Inspection		
Diseases of Defects	Number	Percentage	Number	Percentage	
Skin diseases	189	2.11	1,515	24.62	
Defective vision and squint	733	8.17	161	2.61	
External ava diseases	75	0.83	102	1.66	
Defective hearing	80	0.89	70	1.13	
Other ear diseases	132	1.47	157	2.55	
Chronic tonsillitis	515	5.74	204	3.31	
Adenoids only	36	0.40	33	0.53	
Chronic tonsillitis and adenoids	89	0.99	61	0.99	
Other nose and throat defects	77	0.86	186	3.02	
Enlarged cervical glands	165	1.84	115	1.87	
Defective speech	33	0.37	24	0.39	
Diseases of the heart and circulation	384	4 . 28	381	6 - 19	
Non-tuberculous dsieases of the lungs	258	2.88	330	5 - 36	
All forms of tuberculosis (including suspects	20	0.22	43	0.70	
Disapper of the persons system	98	1.09	232	3.77	
Deformities	146	1.63	68	1.10	
Other diseases and defects (excluding defect of nutrition, uncleanliness and dent	ts				
diseases)	499	5.56	1,546	25 - 13	

Nutrition.—The nutrition of children inspected in the routine age groups is classified in detail in Table IIB, page 159. It will be seen that of 8,964 children inspected, the nutrition of 66, or 0.7 per cent., was excellent, 8,299, or 92.6 per cent., was normal, 468, or 5.2 per cent., was slightly sub-normal and that in 131, or 1.5 per cent., it was bad. This is the third year for the nutrition of children to be classified in this way, and it is satisfactory to record that the slight improvement noted in the condition of the children inspected in 1936, as compared with the condition of those inspected in 1935, was maintained in 1937. This will be seen from the following table, in which the percentages are given under the several headings:—

			Entrants (within 12 months of admission)	Second Age Group (8 to 9 years)	Third Age Group (over 12 years)	Other Routine Inspec- tions	Total
Nutrition of C			1				
	1935		3.3	3.4	4.9	4.0	3.8
Excellent	₹ 1936	****	1.4	3.1	3.6	2.9	2.7
	1937		1.2	0.6	0.3	-	0.7
	€ 1935	****	91.6	86.6	86.0	86.0	88.0
Normal	₹ 1936		92 -1	90.0	89.5	90.2	90.6
	(1937		93 -9	90 -7	93 -1	91.0	92.6
	∫1935	****	3 .4	6.6	7.9	8.0	6.0
Slightly	₹ 1936		5.2	4.5	5.5	6.9	5.1
Sub-normal	1937		4.0	6.3	5 - 5	7.0	5.2
	∫1935		1.7	3.4	1.2	2.0	2.2
Bad	₹ 1936		1.2	2.4	1.4	_	1.6
	1937		0.9	2.4	1.1	2.0	1.5

In the report for 1936 the results of an inquiry that was made with the object of estimating the possible effect of certain sociological factors upon the state of nutrition in school children was reported upon. The results of routine medical inspections were used as a basis for selecting two groups of children, namely, those who were classified as excellent and those classified as bad according to a clinical estimation of their nutritional state. The inquiry was continued on similar lines during 1937.

The numbers of children at present under consideration comprise 31 whose nutrition was classified as excellent (group A) and 77 children whose nutrition was classified as bad (group D). The total of 108 children investigated closely approximates the material

used in the previous inquiry, when a total of 110 children was considered.

The average size of each family in group A was 4.8 persons, compared with an average of 5.9 persons in group D. This difference in the size of the family unit in the two groups confirms the figures obtained last year, when the families in group A averaged 5.4 persons and in group D 6.1 persons. The average gross weekly income for the families of children in group A was £3 6s. 3d., whereas in group D it amounted to £3 0s. 5d. This again emphasises that there is a difference between the economic position of the families where excellent nutrition is found and those in which a bad nutritional state is encountered. The larger size of the family proves an additional factor in restricting the family budget of those in group D.

The manner in which the income is apportioned has again been divided into two main categories: (1) weekly expenses other than food, which includes unemployment insurance, trade union contributions, essential travelling expenses and domestic outgoings, such as rent, rates, coal, gas, electricity, cleaning materials, clothing clubs, hire purchase, medical attention and other necessities. In group A the money expended each week in this manner amounted to £1 11s. $3\frac{1}{2}$ d., while in group D it amounted to £1 11s. 0d. (2) The weekly food bill in group A was £1 6s. 10d., and in group D £1 5s. 10d.

The results obtained are tabulated below :-

Nutritional Group	Number of Cases Investigated	Average number in Each Family	Gross Weekly Income	Weekly Expenses other than on Food	Weekly Food Bill
A (Excellent)	31	4 ·8	£3 6s. 3d.	£1 11s. 3½d.	£1 6s. 10d.
D (Bad)	77	5 · 9	£3 0s. 5d.	£1 11s. 0d.	£1 5s. 10d.

The expenditure upon food has been further analysed in order to ascertain the actual amount of money expended on the different classes of food. The results obtained in this way correspond in general with those which were obtained in a similar comparison which was made in 1936. The families in group A are in a more favourable position with regard to the money spent upon meat, vegetables, fruit and dairy products, whereas group D spent more money upon cereals and bread. An analysis of food expenditure in the two groups is contrasted as follows:—

		Average Week	ly Expenditure	
Type of Food		Group A (Excellent)	Group D (Bad)	
Cereals and Bread			4/8	5/7
Butter, Margarine and Fat			4/-	4/2
Sugar			1/2	1/3
Meat, Fish, and Prepared Meat I			6/6	5/7
Vegetables and Fruit			3/8	2/9
Milk, Milk Products and Eggs			4/6	4/-
Tea, Coffee, etc			2/4	2/6
Total		-	£1 6s. 10d.	£1 5s. 10d.

Making use of the summary system, which provides a record of each child's medical history from infancy until school-leaving age, a comparison into the health of the two groups of children was possible.

Infant Feeding.—In 25 children in group A and 64 children in group D the methods of infant feeding were ascertained. No significant differences were found between the two groups:—

Method of Feeding	Group A (25 children)	Group D (64 children)			
and or a county		Number	Percentage	Number	Percentage	
Breast (up to 6 months)			17	68 .0	25	54.7
Partly Breast (up to 3 months)	****		4	16 .0	18	28 -1
Artificial (1st month)	****	400	4	16 .0	11	17 -2

In no instance was a history of rickets encountered among the 25 children in group A, but in group D five children, or 7.8 per cent., out of the 64 investigated showed definite signs of rickets during infancy. Of the children who showed signs of rickets, three, or 60 per cent., were breast fed up to six months.

Infectious Diseases.—The incidence of the common infectious diseases and juvenile rheumatism is also compared, with no signal variation being noticeable between the groups:—

Diseases		Group A (25 children)	Group D (64 children)		
Diseases			Incidence	Percentage	Incidence	Percentage
Measles			 11	44.0	40	62 .5
Whooping Cough		****	 15	60.0	31	48 -4
Scarlet Fever			 2	8.0	5	7 .8
Diphtheria		****	 _	_	5	7 .8
Mumps			 2	8.0	2	3.1
hicken-pox	****	****	 7	28.0	15	23 -4
uvenile Rheumatism			 1	4.0	7	10.9

Respiratory Diseases.—Diseases of the lower respiratory tract appear to have a higher incidence in those who are badly nourished. This observation was made in last year's investigation and it is again evidenced in the present results:—

	Diseases				Group A (2	5 children)	Group D (64 children)		
	Disease				Incidence	Percentage	Incidence	Percentage	
Bronchitis		****			2	8.0	22	34 -4	
Pneumonia			****	444	2	8.0	7	10 -9	

Common Diseases connected with the Upper Air Passages.—The incidence of these affections very closely simulate one another:—

Diseases	Group A (25 children)	Group D (64 children)			
Discases	Number	Percentage	Number	Percentage		
Enlarged Tonsils and/or Adenoids	6	24.0	15	23.4		
Otorrhoea	3	12 .0	7	10 .9		
Cervical Adenitis	4	16.0	10	15.6		

Conclusions.—In considering the results of this investigation it is well to bear in mind the similar survey that was made last year. Once more it appears that the economic factor varies with the two nutritional groups, those who are malnourished being on a lower economic level, which is reflected in their diet.

The incidence of diseases of the lower respiratory tract again bears a relationship

to the nutritional state.

Entrants.—Parents or guardians are asked to supply particulars as to the medical history of entrants prior to their routine medical inspection. During 1937 information was received regarding 2,880 of the 3,270 children inspected as entrants, from which the following table has been compiled:—

Diagon		В	oys	Girls		Both Sexes		
Diseases		Number	er Percentage Nur		Number Percentage		Number Percentag	
Measles		 906	62.5	931	65.1	1,837	63.8	
Whooping cough		 509	35.1	578	40.4	1,087	37.7	
Chickenpox		 324	22.3	316	22.1	640	22.2	
Scarlet fever		 65	4.5	63	4.5	128	4.5	
Diphtheria		 23	1.6	29	2.0	52	1.8	
Mumps		 54	3.7	50	3.5	104	3.6	
Rheumatism		 7	0.5	14	1.0	21	0.7	
Chorea		 _	_	_	_	_	-	
Tuberculosis		 _	_	4	0.3	4	0.1	
Bronchitis		 64	4.4	58	4.1	122	42	
Pneumonia		 57	4.0	72	5.0	129	4.5	
Other diseases	****	 166	11.4	130	9.1	296	10.3	

Of the 3,270 entrants medically inspected, 649 were found to require immediate treatment (excluding uncleanliness and dental disease) and, in addition, many diseases or defects were found which required to be kept under observation. The numbers of all diseases or defects found in 1,503 of the entrants inspected, whether requiring treatment or to be kept under observation, were as follows:—

Diseases or Defects.			Number.
Skin diseases			 94
Defective vision			 13
External eye diseases		****	 98
Ear diseases			 53
Diseases of nose and t	hroat		 378
Heart diseases			 90
Anaemia	****		 26
Lung diseases (non-tu	berculo	ous)	 129
Tuberculosis—			
Pulmonary			 2
Non-pulmonary			 3
Dental diseases			 756
Other defects and dis-	eases		 213
1	Total		 1,855
			The state of the s

Taking all diseases and defects into consideration, 45.9 per cent. of the entrants were found to be defective, as compared with 42.3 per cent. in 1936 and 41.9 per cent. in 1935.

Re-inspection of Children found with Defects.—When carrying out routine inspections at schools the medical officers re-inspect children previously found with certain diseases or defects. During 1937 the number of children re-inspected in this way was 1,352, the number of diseases or defects from which they had suffered being 1,775. The results of these re-inspections are given in the following table, from which it will be seen that of the total number of diseases or defects, 847 had been treated under the Authority's scheme, 124 had been treated elsewhere and 804 had not been treated.

thority's scheme, 1.	Z4 na	d beer	i treate	d else	where and	1 804 nad	not been	treated.
					Cured or Im- proved	No Improvement	Worse	Total Number o Defects
EATED UNDER THE AUT	HORIT	y's Sch	EME :-					
D 1					253	6	_	259
Par discours					52	9		61
Diseases of nose and t	throat				140	11		151
77 - 1 1				***	23	23		46
America					14	2	_	16
Lung diseases (non-tul Tuberculosis—	bercul				61	2 3	_	64
Pulmonary		****		****	_		-	_
Non-pulmonary			****		_	-	_	-
		****			36	4	-	40
Deformities					49	14	-	63
Other defects and dis ness, infectious skin					134	13	_	147
		Total			762	85	_	847
		Percent	age		90.0	10.0	_	10 .0
EATED ELSEWHERE :-	-							
**					11	1		12
Par diament		****		***	3	1		4
Diseases of nose and t	broat		****	****	5	1		5
**		****	****	****	7	4		11
		****	****			*		5
Anaemia	hamaul.		****	****	5			23
Lung diseases (non-tul	Dercuic	ous)	****	****	19	4	_	23
Tuberculosis—				1				,
		****		****	1			1
Non-pulmonary		****	****	****	1	- 0	_	1 7
		****		****	4	3 3		7 21
		/			18	3		21
Other defects and disc ness, infectious skin o					29	5	-	34
		Total			103	21	_	124
		Percent	age		83 · 1	16 · 9	_	10 .0
TREATED :-								
Erro dinasass					55	85	38	178
For discourse				·	5	3	_	8
Diseases of nose and th					138 -	127	7	272
III		****			65	81	_	146
Anaemia		****			4	1	-	5
Lung diseases (non-tub Tuberculosis—					43	15	-	58
		****			_	_	_	_
Non-pulmonary		****			-		_	-
Nervous diseases		****			4	4	_	8
					11	19	_	30
Deformities				anli-		40		99
Other defects and dis ness, infectious skin d					59	40	_	
Other defects and dis-	disease				384	375	45	804
Other defects and dis-	disease	s and de	ntal disea	ase)			45	804
Other defects and dis-	disease	s and de Total	ntal disea	ase)	384	375		

VI.—"FOLLOWING UP" AND THE WORK OF SCHOOL NURSES.

In addition to the advice given by the medical officers to parents who are present at the inspection of their children, appropriate notices are sent directing their attention to diseases or defects discovered. Lists of defective children are also sent to head teachers with a view to their co-operation in seeing that treatment is obtained. As a result of the notices sent to parents, many children attend the school clinics for further inspection and/or treatment or obtain treatment elsewhere without visits to their homes by school nurses. The parents of all children requiring treatment who are not seen at the clinics, or are not otherwise ascertained to have received treatment, are subsequently visited by school nurses, who impress upon them the need for treatment. The following is a summary of the work of the school nurses in this connection during the year:—

Diseases or D	efects		First Visits	Revisits	Total
Defects of vision Defects of teeth Defects of ear, nose and Other defects	throat		 924 534 623 2,867	339 131 219 832	1,263 665 842 3,699
	1	Total	4,948	1,521	6,469

Amongst other work undertaken by the school nurses may be mentioned the systematic examination at the schools of children for uncleanliness, attendance at the clinics in connection with medical inspection, medical treatment and dental treatment, the treatment of minor ailments under the supervision of medical officers, the following up of children who have received treatment at the clinics, and the treatment at the Corporation Cleansing Station of children suffering from scabies.

As shown above, the total number of visits paid by the nurses to the homes of children was 6,469, and the following is a summary of other work done by them during the year:—

Number of-

Special visits to schools		398
Examinations of children for uncleanliness		40,682
Children found with vermin and/or nits		2,407
Re-examinations of children previously for	ind	
unclean		1,802
Children found to have been cleansed		303
Children suffering from scabies dealt with	at	
the Cleansing Station		119
Number of baths given		257

VII.—ARRANGEMENTS FOR TREATMENT.

Clinics.—Special inspections, refractions, treatment of minor ailments and dental treatment are undertaken at the Central and Canton Clinics, and special inspections, treatment of minor ailments and dental treatment at Gabalfa and Splott Clinics. Splott Clinic—a private house purchased at a cost of £612 and adapted and furnished for clinic purposes at a total cost of £850—was opened for use on 1st September, 1937.

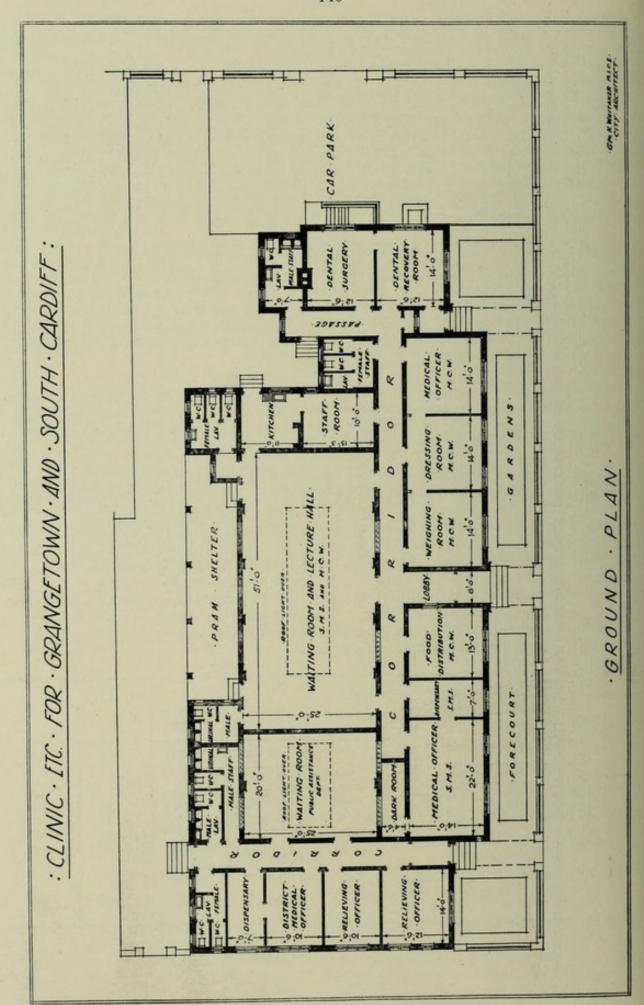
New clinic premises are now being erected in South and Ely municipal wards, plans of which are reproduced on pages 140 and 141. It will be seen that, in addition to school clinic accommodation, the new buildings will also provide accommodation for maternity and child welfare centres and for public assistance purposes (including surgeries for district medical officers, dispensaries, and offices for relieving officers), the public assistance portions of the buildings being structurally separate. The total estimated cost of the land, buildings, furniture and equipment is £23,792 (£11,107 for the premises in South ward and £12,685 for the premises in Ely ward). Of this sum, £18,080 is being borrowed under the Education Acts and £5,712 under the Poor Law Acts. The Health Committee will pay rent to the Education Committee for the use of the accommodation provided for maternity and child welfare purposes. It is anticipated that the buildings will be ready for use early in 1939.

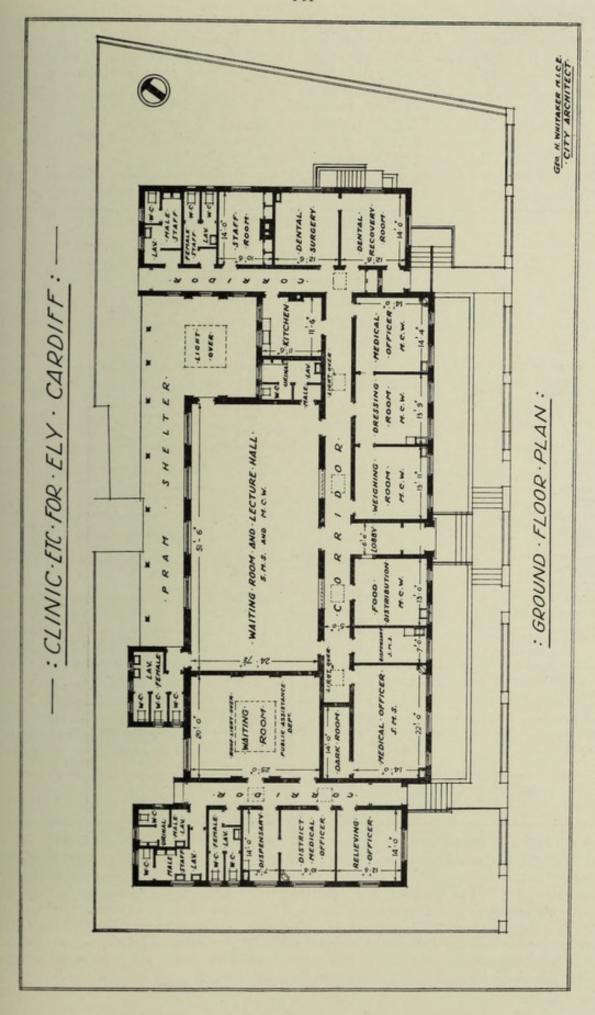
Malnutrition.—Children suffering from malnutrition are either referred for special inspection at the school clinics or followed up by the school nurses, and parents are advised as to appropriate methods of treatment. Free meals and milk are provided in financially necessitous cases. Cod-liver oil and malt, cod-liver oil, and iron and ammonium citrate are provided through the clinics at cost price for cases in which they are prescribed. In certain instances malnourished children are admitted to the Open-Air School (see page 150).

Uncleanliness.—Cleanliness surveys are carried out systematically by the school nurses at the schools (see page 138) and printed instructions regarding methods of destroying vermin and nits are sent to parents when necessary. Special combs for eradicating nits are sold by the department at cost price.

Minor Ailments and Diseases of the Skin.—The treatment of minor ailments and diseases of the skin is undertaken at the school clinics. Details of the treatment carried out during 1937 are given in the statistical tables (page 162), from which it will be seen that 2,110 cases received treatment at the clinics, as compared with 2,142 in 1936. Special attention is given to the treatment of ringworm; the number of cases treated by or under the supervision of the medical staff was 81. When necessary and with the consent of the parents cases of scalp ringworm are treated by X-rays, but during 1937 four cases only received this form of treatment. Arrangements have been made whereby nurses of the Queen's Institute of District Nursing render assistance in the home nursing and treatment of minor ailments, and particulars of the work undertaken by them during 1937 are shown in the following table:—

Diseases or Defects	Carried	Cases Carried over from 1936		Cases Referred for Treat- ment during 1937		Total	
	Cases	Visits	Cases	Visits	Cases	Visits	
Skin :—							
Impetigo	1	10	46	762	47	772	
Other skin diseases		-	6	115	6	115	
		-	6	73	6	73	
Minor ear defects		24	4	189	5	213	
Miscellaneous	8	41	92	1,050	100	1,091	
Total	10	75	154	2,189	164	2,264	





Visual Defects and External Eye Diseases.—Visual defects and external eye diseases are treated at the school clinics. In addition to a medical officer on the staff who devotes part time to the work, a specialist ophthalmic surgeon is engaged for two sessions weekly. Spectacles are supplied through the department at very reasonable prices, and in necessitous cases they are supplied free of charge. Particulars of the treatment of visual defects are given on page 162, from which it will be seen that 1,642 children were dealt with at the clinics, 1,376 of whom were examined for errors of refraction and 266 were treated for other defects. Spectacles were prescribed for 1,297 children and in 1,162 instances they were known to have been obtained.

The diseases and defects discovered in all the children who were dealt with at the

vision clinics during the year are shown in the following table:-

					Number	efects	
Diseas	es or l	Defects			Boys	Girls	Total
Squint					78	93	171
Errors of refraction-				1000		200	
Hypermetropia			****	****	245	302	547
Myopia					104	121	225
Astigmatism-							
Hypermetr	opic		****		254	313	567
Myopic		****	****		80	116	196
Mixed		****			34	72	106
Cantingalitate			****		57	62	119
Phlyctenular conjunct		****	****		4	9	13
Blepharitis				100	42	73	115
Keratitis					1	3	4
Interstitial keratitis	****	****				i	î
Choroiditis	****	****			2	_	2
Corneal ulcer	****	****	****	****	3	7	10
Corneal nebulae	****	****		***	13	12	25
Nystagmus	****	g	****	****	8	6	14
Injury to eye	****	****	****	****	1	1 _	1
Meibomian cyst	****		3000	****	6	3	9
Cellulitis of eyelid	****		****	****	1	2	3
Ptosis	****	****	****	****	1	ĩ	1
Cataract—Congenital	***	****	****	****	6	î	7
	****		****	****	1		1
,, —Traumatic Dermoid cyst	****		****	****	1	1	i
Leucoma adhaerens	****	****		****	2	i	3
ra		****	****		ĩ	1	5
TT 1	****		****	****	9	2	4
Hordeolum	****	****	****	****	2	-	1
Optic atrophy	****	****	****	****	1	1	1
Optic neuritis	****	****	****	****		1	1
Exophthalmos	****		****	***		1	
		Total			946	1,207	2,153

Nose and Throat Defects.—Children suffering from nose or throat defects who are found to require treatment are specially examined at the school clinics, and those found to need operative treatment are admitted to Llandough Hospital—the Cardiff Municipal General Hospital. The children are admitted to hospital the day before the operation and, if well enough, are discharged the day following the operation. Owing to the relatively long distance of Llandough Hospital from the centre of the city, the children are conveyed to and fro by motor ambulance. The number of defects treated at the clinic or hospital was 815, of which 379 were treated by operation (135 enlarged tonsils only, 10 adenoids only, 232 enlarged tonsils and adenoids and two other defects).

As mentioned in the report for 1936, Mr. R. D. Owen was appointed as Aural Surgeon in a part-time capacity for the purpose of examining ear, nose and throat cases regarding which a specialist opinion is desirable. The first special clinic was held on 30th October, 1936, and from that date until the end of 1937, 10 clinics were held, a total of 212 children having been examined, 45 of whom were found not to require treatment. The recommendations in the cases requiring treatment or observation were as follows:—

	Number of Defects.
Treatment in Llandough Hospital:—	
For radical mastoid or other operative treatment of the	
ear	
For removal of polypi	2
For removal of nasal obstruction, drainage of antrum,	
etc	11
For removal of adenoids and/or enlarged tonsils	61
For exploratory examination under anaesthetic	4
Treatment and supervision at Ear, Nose and Throat Clinic	55
Treatment by Nurses of the Queen's Institute of District	
Nursing	1
Admission to Oral School for the Deaf	2
Admission to Speech-training Classes	2
Operative treatment for deflected septum when older	. 3
Other forms of treatment	3
Referred to own medical practitioner	2
Referred to Cardiff Royal Infirmary	2
For further observation at various periods	. 15

Ear Disease and Defective Hearing.—The treatment of ear diseases or defects is carried out at the school clinics by or under the supervision of the medical officers. Many of the cases of otorrhoea are treated by zinc ionisation. Altogether, the number of defects treated at the clinics was 407.

The statement below shows the results of the testing of children with the audiometer during 1937. Children shown to be deaf by the test are subsequently examined by a medical officer at the school clinics and, if found to present any difficulty, are referred to the specialist aural surgeon for further examination. It will be seen that a number of the children, although shown to be deaf by the audiometer test, were found on special examination to suffer from no abnormality.

					Number	of Children
					Numoer	of Children.
Tested with	audiometer	at sch	ool			982
Retested						321
Found defect	tive after re	etesting	;:-·			
Defective i	in one ear				42	
Defective i	in both ears	S			26	
			Total	*****		68

Number of Children.

		7.15		-	800
Subsequently examined at school	l clinics	:			
Found to be normal			14		
Found normal after treatment			19		
Further treatment required			20		
Unlikely to benefit further			1		
	Total			54	
Failed to attend at first appoi	ntment			13	
Refused to attend school clinic		t school		. 1	

Dental Defects.—Dental inspection of children at the schools and treatment at the school clinics are undertaken by five school dentists. Particulars of the work done during 1937 will be found on page 164. The total number of elementary school children inspected by the dentists was 23,678, of whom 17,694 were found to require treatment. The number of children who were treated was 7,951, 3,540 of whom had received treatment previously.

Orthopaedic and Postural Defects.—The orthopaedic clinic is closely associated with the municipal accident unit at the City Lodge. There is a medical officer on the staff of the department who specialises in dealing with children suffering from crippling defects and, in addition, a specialist orthopaedic surgeon is engaged in a consultative capacity. Children requiring indoor hospital treatment are admitted to the Prince of Wales Hospital—a voluntary orthopaedic hospital—and all the appliances required by children attending the clinic are provided through that institution.

The following is a summary of the work carried out at the orthopaedic clinic during

1937 :--

				Children School A	
Consultation Clinic :—					0
Examined for first time					256
Recommended for treatmen	nt and/o	or applian	ices		
for first time					130
Recommended for further	r treatn	nent and	l/or		
appliances					135
Recommendations for :-					
Treatment in Hospital					38
Treatment at Clinic (Specia	al and R	coutine)			139
Appliances					14
Alterations to appliances					5
Special boots					4
Alterations to boots					83
Other forms of treatment					8
Treated at Clinic for first time					5
Attendances at Clinic			****		859
Attendances at Chine	••••	****		****	000
Routine treatment (massage, elect	ricity, es	cercises, e	tc.) :		
Treated at Clinic for first ti	ime				124
Attendances for routine tre	atment				3,312

The following statement relates to treatment at and provision of appliances, etc., through the Prince of Wales' Hospital, Cardiff, during 1937:—

						-	uaren or
Hospital	l Treatmen	nt:—				Sch	iool Age.
			Wales' H	ospital—			
	0232	y cases					1
	(b) Oth	er cases					9
Und	der treats of 1937	ment at	Prince of	Wales' H	lospital a	at end	2
On	Prince o 1937—	f Wales'	Hospital	waiting li	st at end	d of	
	(a) Day	y cases					_
	(b) Oth	er cases					20
			vision (in espital treat		ppliances	, etc.,	
A	ppliances	provided	l				36
A	ppliances	altered					14
S	pecial boo	ots provid	led				7
A	lterations	s to boots					116
		6	ment prov				6

The diseases or defects found in children of school age examined at the clinic for the first time during the year have been classified as follows:—

Diseases	or Defe	ects.		N	umber.
Defective posture			 		103
Scoliosis			 		6
Flat feet			 		42
Bow legs			 		1
Talipes			 		1
Rickets			 		1
Poliomyelitis			 		1
Spastic paralysis			 	****	2
Birth palsy			 		1
Congenital malfor	mation	or defect	 		3
Torticollis			 		10
Perthes' disease			 		1
Knock-knee			 		14
Metatarsus varus	and int	oeing	 		2
Coxa vara			 		1
Claw feet			 		6
Trauma			 		10
Other defects	****		 		51
		Total	 		256

The following is a classification of the cases discharged during the year :-

	Reason.				- Anna Carlotte	Nı	imber.
Cured							187
Improve	ed			****			59
Unlikely	to bene	fit furth	er				10
Left the	district					****	6
Failed t	o attend	for treat	tment	9523			36
Over sch	nool age			3 ***) #			50
Other re	easons (ir	ncluding	trivial	defects)		2	62
			Total			1	410

Heart Disease and Rheumatism.—School children suffering from heart disease and rheumatism are kept under close supervision at special rheumatism clinics. Cases of acute rheumatism are admitted to the Lord Pontypridd Hospital (Dulwich House)—a municipal hospital of 25 beds which is specially reserved for the purpose. Details of the work undertaken at the clinics and at the hospital are contained in the report on the general health service. The number of school children remaining under supervision at the end of the year was 1,482, a decrease of 111 compared with the number at the end of the previous year.

Tuberculosis.—The department co-operates closely with the Tuberculosis Institute of the Welsh National Memorial Association, by which body the treatment of tuberculosis is undertaken, all cases of tuberculosis and suspected tuberculosis being referred to the Tuberculosis Physician for diagnosis and/or treatment.

Other Defects and Diseases.—Children found to be suffering from minor defects or diseases not already mentioned are referred for special examination at the school clinics, where parents receive advice as to the treatment required, and in some instances suitable remedies are provided at the clinics. Children suffering from defects or diseases for the treatment of which no special provision has been made are visited by school nurses, who advise the parents as to the appropriate means of obtaining treatment.

Radiography.—Radiography is carried out by the department. During the year, 45 school children were referred from the clinics to be radiographed, the total number of radiograms taken being 112. Seventy-one parts of the body required X-ray examination in the 45 cases as follows:—

Spine <td< th=""><th>110 40 00</th><th>Loco</th><th>as follows.</th><th></th><th></th><th></th><th>250</th></td<>	110 40 00	Loco	as follows.				250
Shoulder	Teeth						6
Arm	Spine						20
Elbow	Should	er					3
Wrist <td< td=""><td>Arm</td><td></td><td></td><td> 30</td><td>200</td><td></td><td>2</td></td<>	Arm			30	200		2
Finger	Elbow					die	3
Hip 15 Knee 8 Thigh	Wrist						1
Knee 8 Thigh	Finger						3
Thigh	Hip						15
Leg 55 Foot 2	Knee						8
Foot 2	Thigh						3
	Leg						5
Total 71	Foot						2
			Samuel.	Total			71

VIII.—INFECTIOUS DISEASES.

Constant attention is paid to preventing the spread of notifiable and nonnotifiable infectious diseases amongst school children. As soon as notifiable diseases, such as scarlet fever and diphtheria, come to the knowledge of the department the homes of the patients are visited by an officer of the general health service and arrangements are made for the isolation of the patients, either at the Isolation Hospital or in their own homes. Nearly all cases of diphtheria are admitted to the Hospital. All children who have been in contact with cases of notifiable infectious diseases are excluded from school for the prescribed periods by means of exclusion certificates, copies of which are sent to the schools and to school attendance officers, re-admission certificates also being sent in due course. Active immunization of school children against diphtheria, especially of those in infants' schools, is undertaken as time and opportunity permit. Head teachers are supplied with instructions as to the periods of exclusion from school of patients and contacts in all infectious diseases. An arrangement is also in operation whereby the names and addresses of school children who are absent from school on account of non-notifiable diseases, such as measles, chickenpox, whooping cough and mumps, are supplied by head teachers on appropriate forms in order that they may be visited by officers of the department with a view to preventing the spread of infection.

The numbers of school children notified to be suffering from various infectious

diseases during the year were as follows :-

Scarlet fever			 	321
Diphtheria		****	 	441
Enteric fever		****	 	5
Pneumonia		****	 ****	37
Cerebro-spinal fever			 ****	5
Erysipelas			 ****	2
Dysentery		****	 ****	4
Tuberculosis—Respiratory		****	 ****	8
,, —Other form	S	****	 	- 37

The following cases of non-notifiable infectious diseases were intimated by head teachers or school attendance officers, or were otherwise ascertained:—

Chickenpox	 	 	 664
Measles	 	 	 2,110
Rubella	 	 	 3
Whooping cough	 	 	 197
Mumps	 	 	 125

Vaccinal State of School Children.—Of 10,558 elementary and high school children inspected at routine inspection during 1937, 5,122, or 48.5 per cent., were found to be vaccinated. During the ten years 1928-37 the proportion of children inspected who were found to have been vaccinated has declined from 60.9 per cent. to 48.5 per cent., as follows:—

						I	Percentage
Year.						I	accinated
1928		****					$60 \cdot 9$
1929				****		****	56 .4
1930		****	****		****		57 .4
1931 1932	**** 11	****	****		****	****	56 ·1 58 ·1
1933	3,	****	****			****	54.5
1934							52.6
1935	****						50 .3
1936	****						50 .3
1937	****	****	****		****		48.5

IX.—OPEN-AIR EDUCATION.

Classes are held in playgrounds during appropriate weather at schools where the facilities are suitable; at several schools the holding of classes in the open-air is a special feature. Children are also taken to the public parks for certain lessons in the summer months.

Greenhill Open-Air School, which is situated at Rhiwbina, outside the city boundary, is used for the education of physically defective (delicate) children. The accommodation at this school is for 120 children, who are selected for admission mainly on the grounds of malnutrition and anaemia; pre-tuberculous children and children who are tuberculosis contacts, but who do not themselves suffer from tuberculosis, are admitted also. The children in attendance are conveyed to and from the open-air school by motor 'buses, and nourishing meals are provided for them on the school premises. After varying periods of attendance at the open-air school, children are re-admitted to the ordinary elementary schools. A report upon the children in attendance during 1937 is given on page 150.

X.—PHYSICAL TRAINING.

Physical training is well organised and supervised in all the schools—in the girls' and infants' schools by a female organiser and in the boys' schools by a male organiser. Instructional classes in physical education for teachers are held during the winter months. The children receive training in minor and major organised games, such as netball and rounders for girls, soccer football, rugby football, baseball and cricket for boys, and swimming, national dancing and folk dancing for girls and boys.

XI.—PROVISION OF MEALS.

Necessitous school children are supplied with dinners by contract at 15 canteens in various parts of the city and with a ration of pasteurised milk at schools instead of breakfast. Many parents avail themselves of the privilege of having their children provided with milk who, mainly owing to pride, are unwilling for them to have dinners at the canteens. Arrangements have also been made for children, whose parents are willing to bear the cost, to be provided with milk at schools. The daily ration of milk supplied free is half-a-pint for children over 8 years of age and one-third of a pint for younger children. Under the voluntary arrangement one-third of a pint is supplied to children of all ages.

The average numbers of children provided with dinners and/or milk daily during each of the years 1933 to 1937 have been as follows:—

Year		Year Average Number of Necessitous Children provided with Dinners daily		Average Number of Necessitous Children provided with Milk daily	Average Number provided with Milk daily under the Voluntary Arrangement	
1933				 2,090	2,693	3,686
1934			****	 2,487	3,347	5,595
1935			****	 2,351	3,475	10,118
1936				 2,203	3,474	9,727
1937			****	 1,852	3,194	10,222

It will be seen that the numbers of necessitous children provided with free dinners and milk are declining and that the number provided with milk on payment is increasing.

XII.—CO-OPERATION OF PARENTS, TEACHERS, SCHOOL ATTENDANCE OFFICERS AND VOLUNTARY BODIES.

Parents.—The majority of parents show great interest in the medical inspection and treatment of their children, and the indifference of the minority, especially in regard to the necessity of preventive dental treatment and the treatment of minor ailments, is deplored. Parents are invited by notices to attend the routine inspections at school and in many cases they accompany their children to the school clinics.

Teachers.—Teachers co-operate very well in all the work that is done. In connection with routine medical and dental inspections they prepare the inspection schedules and marshal the children for inspection. Head teachers are provided with lists showing the children who are recommended for treatment and they co-operate in ensuring that it is obtained. They are also provided with stamped-addressed forms for notifying the names and addresses of children who require special attention and of children who are absent from school owing to non-notifiable infectious diseases (measles, whooping cough, mumps, etc.) to the department, and the assistance rendered by them in this way is invaluable.

School Attendance Officers.—The co-operation between the school attendance officers and the school medical service staff is as complete as possible. Children who are absent from school and who are in need of attention are reported by them, and they render useful service in dealing with negligent parents who fail to arrange for their children to keep appointments at the school clinics.

Voluntary Bodies.—Voluntary bodies concerned with children's welfare also co-operate very closely in the work. The scheme whereby nurses of the Queen's Institute of District Nursing undertake the treatment of minor ailments in the homes of the children, in respect of which the Education Committee pay the Institute £100 per annum, continues to work satisfactorily. Particulars of the work done by them in 1937 are given on page 139. Serious difficulties arising out of parental neglect are referred to inspectors of the National Society for the Prevention of Cruelty to Children, who deal with them promptly and effectually. Two voluntary bodies that provide holidays for children at seaside homes co-operate with the department in the selection of senior school children who are likely to benefit thereby.

XIII.—BLIND, DEAF, DEFECTIVE AND EPILEPTIC CHILDREN.

Blind, deaf, defective and epileptic children come to the knowledge of the department through various channels, but they are ascertained mainly through routine medical inspection at schools and through notification by head teachers and school attendance officers. The numbers of such children who are known to the department are given in detail in the table on pages 159 to 161.

Mentally Defective Children.—It will be seen from the table referred to that the number of mentally defective children not transferable to the Mental Deficiency Authority was 123, of whom 111 were attending the special day school. The remaining 12 children are supervised at home by officers of the department. There were also 11 children who, in addition to being mentally defective, suffered from serious physical defects; seven of these were also in attendance at the special day school.

During the year, 73 children suspected to be mentally defective were specially

examined or re-examined. The results are classified as follows :-

Feebleminded and suita	ble for e	ducation	n in a s	
school				2
Transferred to the care o	f the Men	tal Defic	ciency Au	
Dull and backward				
Backward only			1	
Unstable and neurotic				
Referred to Child Guidan	ce Clinic			
Normal				
	Total			

Twenty-eight children were notified to the Mental Deficiency Authority during 1937, particulars of whom are classified in the following table:—

Diagnosis	Boys	Girls	Total
 (i) Children incapable of receiving benefit or further benefit from instruction in a Special School:— 			
(a) Idiots	1	1	2
(b) Imbeciles	3	3	6
(c) Others	. 3	3	6
(ii) Children unable to be instructed in a Special School with-	-	E STATE OF THE STA	
out detriment to the interests of other children :— (a) Moral Defectives	1		
(a) Moral Defectives (b) Others			1
(*)		1	
2. Feebleminded children notified on leaving a Special School			
on or before attaining the age of 16	. 6	7	13
3. Feebleminded children notified under Article 3 of the 1928			4
 Feebleminded children notified under Article 3 of the 1928 Regulations, i.e., "special circumstances" cases 	_	_	
Troguistions, riv., apoetar errouminations custos			
4. Children who in addition to being mentally defective were	1	1	
blind or deaf	-	-	-
Total	14	14	28

Mentally Retarded Children.—Special classes for mentally retarded children, known as "delta" classes, are held at two elementary schools. Children, regarding whose mental condition there is some doubt, are admitted to the classes from elementary schools. They are examined periodically by a medical officer of the department to decide as to the form of education for which they are most suitable. Children who make sufficient progress are allowed to return to ordinary elementary schools, while others who are found to be feebleminded are admitted to the special day school. At the end of the year, 27 children were in attendance at the classes.

Special Schools.—There are special day schools for mentally defective, blind (including partially blind), deaf, and physically defective children, the numbers in attendance being given in the table on pages 159 to 161. The children attending these schools are regularly inspected and closely supervised by medical officers of the department.

Greenhill Open-Air School.—The number of physically defective children on the register at the end of 1937 was 134, and the average attendance during the year—excluding August—was 107. Forty-six children (29 boys and 17 girls) were admitted to the school, and 55 (34 boys and 21 girls) were discharged. The following are the principal diseases or defects found in the children admitted during the year:—

Diseases or Defects.				Number.
Anaemia			 	6
Malnutrition			 	8
Anaemia and malnutritio	n		 	12
Quiescent tuberculosis (no	on-pulmo	nary)	 	1
Post-rheumatic debility			 	5
Post-pneumonic debility	****		 	8
Anorexia			 ****	3
Chronic bronchitis			 ****	3
	Total		 **	46
Post-rheumatic debility Post-pneumonic debility Anorexia			 	8 3

Five of these children had previously shown clinical signs suggestive of tuberculosis, but at the time of admission none of them suffered from active tuberculosis. There was a history of tuberculosis in the parents or brothers and/or sisters in 12 of the children admitted.

The following table shows the average increases in weight and height of 49 of the 55 children who were discharged from the school during 1937. The remaining six children attended for periods of less than three months.

	Av	in School (Months)			Number of Children in Group	Average Age on Discharge (Years)	Average gain in Weight (Pounds)	Average gain in Height (Inches)
3					9	10 -29	0 · 17	0.33
6			****		9	9 -85	3 .28	_
9		****			7	10.88	5.75	1 .88
12			****		2	10.33	12 .50	2 .00
15				***	7	11.76	7 . 57	2 .18
18	****	****		****	5	11.82	4 .95	3 .58
-	****	7777		****	.,			
21	****		2000		6	11.71	9.71	3 :88
24	*****	****	****		3	9 - 69	8 - 42	2.00
57	100000	200			1	14 .00	25.50	7

XIV.—FULL-TIME COURSES OF HIGHER EDUCATION FOR BLIND, DEAF, DEFECTIVE AND EPILEPTIC STUDENTS.

No special courses of higher education for blind, deaf, defective or epileptic students have been arranged. Suitable blind students, however, receive special training at the cost of the Education Committee at the Cardiff Institute for the Blind, where males are taught to make baskets, mats, cork ship-fenders, brushes and coal bags, and females are taught knitting, weaving, chair-caning and light basket-making. At the end of the year, 10 blind persons (five males and five females) were receiving training under this arrangement. Other students who come within the categories referred to are admitted to residential schools elsewhere, and at the end of the year there were three crippled students (two males and one female) and one epileptic student (a female) who were being maintained by the Education Committee at such schools.

XV-NURSERY SCHOOLS

There is at present no nursery school in Cardiff, but the building of the proposed nursery school, which is to be provided in conjunction with Severn Road Council Infants' School and which was referred to in the report for 1936, will shortly be commenced. Plans and specifications have been prepared, and invitations for the submission of tenders for the erection of the premises and for application to be made to the Ministry of Health for sanction to the proposed loan have been authorised.

XVI.—SECONDARY SCHOOLS AND OTHER INSTITUTIONS OF HIGHER EDUCATION.

The high schools provided by the Education Committee number eight (four for boys and four for girls) and all the facilities of the school medical service are available for the pupils. There are also a secondary school for boys and two secondary schools for girls that are aided by the Committee; arrangements have been made for the medical inspection and treatment of pupils attending the school for boys and one of the schools for girls through the school medical service. High and secondary school pupils are medically inspected on entering and prior to leaving school. Details of the number of pupils inspected, of the findings of inspection and of the treatment undertaken during 1937 are given in the statistical tables on pages 165 to 169.

XVII.—PARENTS' PAYMENTS.

Charges are made for certain forms of treatment provided through the school medical service, parents being required to pay according to an approved scale of family income, but treatment and spectacles are provided free of charge for children belonging to families whose incomes fall below the scale. Fees are charged for operative treatment of nose and throat defects, dental treatment and in-patient orthopaedic treatment. Charges are also made for orthopaedic appliances and for spectacles. Application forms have to be filled in and signed by parents, who, unless willing to pay the full charge, are required to supply complete particulars of their incomes from all sources. The fees for dental treatment are payable at the time of treatment and the cost of spectacles before they are supplied, but all other payments are collected by collectors employed by the City Council after accounts have been issued.

XVIII.—HEALTH EDUCATION.

Every opportunity is taken by the medical officers, dentists and school nurses to disseminate knowledge on the maintenance of health amongst children and their parents with whom they come into contact, and large quantities of illustrated literature issued by the Dental Board of the United Kingdom and the Health and Cleanliness Council are supplied periodically to schools for distribution amongst the children.

Sex education is conducted very successfully amongst senior school children of both sexes by officers of the Alliance of Honour. This teaching is undertaken only with the consent of parents, over 90 per cent. of whom readily consent for their children to receive the instruction, which they themselves are reluctant and in many cases unable to give.

XIX.—SPECIAL INQUIRIES.

Apart from the inquiry into the sociological facts behind the findings of the nutritional condition of school children at routine medical inspections, which was commenced in 1936 and continued during 1937, and on which a report is given on pages 134 to 136, no special inquiries were made during the year.

XX.-MISCELLANY.

Medical Examination of Teachers.—The number of newly appointed and other teachers examined by the medical staff was nine (three males and six females).

Juvenile Employment.—Forty-three children (30 boys and 13 girls) were medically examined on the request of the Juvenile Employment (Education) Officer as to suitability and fitness for employment and 22 children (3 boys and 19 girls) were examined in connection with the issue of entertainment licences.

Junior Instruction Centres.—There are two Junior Instruction Centres (one for males and one for females) and arrangements are made through the school medical service for the medical inspection and treatment of the pupils who are not entitled to benefit or treatment under the National Health Insurance Acts. During the year, 411 pupils (157 boys and 254 girls) were medically inspected at the centres, of whom 126, or 30.6 per cent., were found to require medical treatment and 181, or 44.0 per cent., to require dental treatment. Fifty-eight pupils were dealt with by medical officers at the school clinics (minor ailments 24, defective vision 24, nose and throat defects four, and crippling defects six) and the number that received dental treatment at the clinics was 75.

Classes for Speech Training.—The average number of children attending the special classes for speech training during the year was 69, the total number of individual children dealt with being 100. The numbers admitted and discharged were 27 and 51 respectively. Of the 51 children discharged, 20 were withdrawn by their parents without having completed treatment or were discharged owing to mental incapacity. The classification at the time of discharge of the remaining 31 was as follows:—

Provisionally cur	ed			 	20
Much improved				 	10
Improved			****	 	1
		Total		 	31

As usual, at the close of each term, head teachers, were asked to supply reports on the progress made, in their opinion, by children attending the classes. The following is a summary of the reports received:—

		1st Term.	2nd Term.	3rd Term.
Cured	 	6	3	2
Much improved	 	22	13	17
Improved	 	30	37	21
Not improved	 	9	13	11
No definite report	 	10	1	6
	Total	77	67	57

Head Teachers also supplied reports at the end of the year regarding 74 scholars who had passed through the special classes and who were still attending school. These reports are summarised as follows:—

Cured	 	 	 12
Much improved	 	 	 21
Improved	 	 	 26
Not improved	 	 	 11
Relapsed	 	 	 2
No definite report	 	 	 2
	Total	 	 74

The instructress continued to visit the schools and homes of children attending the special classes and to make after-care visits to children who had left school. She made, altogether, 368 visits to schools and to the homes of children in attendance and of those who had attended the classes but had since left school. The condition of the speech of 72 of those to whom after-care visits were made is summarised as follows:—

Cured				 	40
Very much impro	oved			 	8
Much improved				 	8
Improved		****		 	7
Improvement ma	intained			 	5
Variable				 	1
Relapsed				 	3
			100		
		Total		 	72

The following is a note by Dr. G. E. Phillips, an Assistant Medical Officer, and Miss T. G. Collins, the Instructress, on speech defects and on the work of the special classes for speech training during the year:—

Perhaps there is no disorder common to so many people which has been as baffling in its origin and variable and intractable in treatment as stammering. The catalogue of varieties of treatment used during the past century by otherwise learned men make fantastic reading. One is surprised at the rapidity of the change in attitude on the subject since the beginning of the present century. The advice given by the Delphic oracle to Bathos that he should leave his home for the more Southern Libia as a cure for his "halting speech" can be applied to sufferers in a modern age, for it is well to remember that stammering is largely a result of an inability on the part of the stammerer to adjust himself to the complexities and contradictions of the environment in which he is. We notice the wisdom of the oracle, too, in the suggestion that Bathos' new home should be in the south. In modern times the predominant number of stammerers are found in the northern countries. Perhaps this may be due to the more complex civilisations of these countries.

To our knowledge no systematic investigation has been done among stammerers living away from their homes. Boome and Richardson in their book, *The Cure and Treatment of Stammering*, state that it is for us to help to adjust the child to his environment rather than to remove him from it. Often, however, through apathy of parents and general attitude of defeatism, it is impossible for the child to shake off the effects of an environment which has been instrumental in causing his stammer.

The cases which, in our opinion, would benefit by treatment while away from their homes are those among whom the habit factor is predominant and those emotional cases who need a complete break from old associations in order to establish their newly-found confidence in themselves.

At present the organisation of stammerers attending the special classes is into classes of a like age. There seems much to commend class treatment, and Boome and Richardson remark that team work possible in this method is of beneficial effect. Most stammerers fall into two groups which respond to treatment with emphasis upon either relaxation and suggestion or direct speech training, according to the difficulty with which the child is faced. It is often not realised by those at home and at school that stammering is more far-reaching in effect upon the character of the child than is the case in a speech defect such as a lisp or nasal speech. Whereas in the latter the difficulty is uniform in severity and localised in effect, the child who stammers is met with a bewildering series of difficulties, which may well have the result of making him lose his sense of social responsibility.

Since July, 1937, two classes for treatment of speech defects have been held and 10 children have attended. The cases included five lallers, three lispers, one with nasal speech and one case of high-frequency deafness. By December three cases were discharged as cured, one was transferred to the Oral School for the Deaf and one was discharged as unsatisfactory. It will be seen that, although fewer children can be admitted owing to the individual nature of the work, a cure is established more rapidly than in the case of stammerers. The disability of being unable to make certain sounds is, in the case of lispers, often overcome in one or two lessons. It is, however, necessary for the child to have constant practice in conversation and reading before the cure is firmly established.

Child Guidance Clinic.—The Child Guidance Clinic is held at Gabalfa School Clinic, where four rooms are suitably furnished and equipped for the purpose. During 1937 the staff consisted of Dr. J. Walker, Psychiatrist (part-time), Dr. G. Seth, Psychologist (part-time), Miss Joan Yates, B.A., Social Worker (whole-time), and a whole-time

female clerk. The following is a summary of the work done at and in connection with the clinic during the year:—

(1) N	umber of patients r	eferred to	o the clini	ic during	the year	:	
	Boys				****		36
	Girls			****			25
			T . 1			0	
6			Total				61
(2) N	umber of patients of	arried for	rward from	m 1936 :-	_		
18.7	Boys	****	11		****		32
	Girls			****		-	27
			m . 1				
			Total		1787		59
(3) So	ources of ascertainn	nent of pa	atients de	alt with f	or the fir	st tin	ne :
	Parents or Guardi	ans			30	1 5	2
	Juvenile Courts				1		5
	Social Agencies						3
	Schools						11
	School Medical Se	rvice					35
	Private Medical P	ractitione	ers				3
	Other sources						2
			_				-
			Total		G 173		61
(4) P	roblems for which t	he 61 pat	ients wer	e referred	to the c	linic :	_
	Backwardness						2
	Stealing		20000	in tall	Line 'o	-	8
	Nervousness						7
	Difficult and/or un						5
	Temper						3
	Enuresis						19
	Speech difficulties			:			6
	Lying						2
	Sex difficulties				£ 300m		2
	Truancy and/or w	andering					2
	Night terrors and						3
	Restlessness and s				The same		5
	Screaming	e o processir					5
	Feeding difficultie	S		100000	100		1
	Lack of concentra						6
	Various	CIOII					7
	1411040			173/10/14			
			Total				83
			Total		****	****	00

(5) Ages of p	atients dealt wit	h for the fir	st time :-	_		
Years		Boys	G	irls		Total
4		2		_		2
5		1		_		1
6 7		4		3		7
8		3		2 2		5
9		5	****	4		9
10		_		6		6
11		5		1		6
12		4		3		7
13		10		2		12
14 15		2		1	••••	3
10	•••				****	
	Total	36		25		61
(6) How the	patients were de	alt with :-				
, ,	e of Clinic					49
	osed only					12
		Total				61
(T) T) 11						
	f treatment of pa	atients disch	arged :—	-		00
Adjust						22
Unadj	lly adjusted					17 16
	erred to other as	rencies				4
	table for further					9
		m . 1				
		Total				68
(9) Number (of patients waitin	or to be dee	It with a	t and of	**************************************	
Boys	n patients waitin	ig to be dea	it with a	t end or	year .—	11
Girls						8
01120		****			****	
		Total				19
						-
(9) Work of	Sections:—					
(a) Ps	ychiatric :—					
	New patients de					58
	Re-examination					186
	Interviews with	parents				69
(b) Ps	ychological:-					
	New patients de	alt with				72
	Re-examination					28
	Interviews with	parents or	teachers	****		33
(c) So	cial Service :-					
100	Interviews with	parents, etc	c., at clin	ic		143
	Visits to homes					319
	Other visits con-	cerning pati	ents			154
(10) Staff cor	aferences regardi	ng patients				133

XXI.—STATISTICAL TABLES.

ELEMENTARY SCHOOLS.

TABLE I.

MEDICAL INSPECTION.

A .- ROUTINE MEDICAL INSPECTIONS.

Number of inspections in the pres	cribed Gro	ups :-		
Entrants (within 12 mon	ths of adm	nission)	****	3,270
Second Age Groups (8 to	9 years)	****		2,938
Third Age Group (over 1	2 years)			2,656
	Total			8,864
Number of other Routine	e Inspectio	ns		100
	Grand	Total		8,964
В.—Отг	HER INSPE	CTIONS.		
Number of Special Inspections				6,152
Number of Re-inspections				6,503
	Total			12,655
				-

C.—CHILDREN FOUND TO REQUIRE TREATMENT.

Number of individual children found at routine medical inspection to require treatment (excluding defects of nutrition, uncleanliness and dental disease):—

Group (1)	For Defective Vision (excluding Squint)	For all other Conditions re- corded in Table II A. (3)	Total
Entrants (within 12 months of admission	18 221 233	646 497 436	649 656 619
Total (Prescribed Groups)	472	1,579	1,924
Other Routine Inspections	_	22	18
Grand Total	472	1,601	1,942

Note.—No individual child is counted more than once in any column of this table; for example, a child suffering from defective vision and from adenoids appears once in column 2, once in column 3 and once only in column 4.

ELEMENTARY SCHOOLS.

TABLE II.

A.—DEFECTS FOUND BY MEDICAL INSPECTION.

		MEDICAL	INSPECTIO	AN.	
		ROUTINE IN	SPECTIONS	SPECIAL IN	SPECTIONS
		No. of I	Defects	No. of	Defects
DEFECT OR DISEASE		Requiring Treatment	Requiring to be kept under obser- vation, but not requiring Treatment	Requiring Treatment	Requiring to be kept under obser vation, but not requiring Treatment
(1) Ringworm—Scalp	- 1	4		12	11111111
(2) ,, Body		6		107	_
kin \((3) Scabies		33	-	204	-
(4) Impetigo (5) Other Diseases (Non-Tubercule	onel	89 55	2	976 211	5
	ous				
Total (Heads 1 to 5)	****	187	2	1,510	5
(6) Blepharitis (7) Conjunctivitis		41	1	34	
(8) Keratitis				5	-
(9) Corneal Opacities		2 2	2	5	-
(10) Other Conditions (excluding Defective Vision and Squint)		17	6	39	10
Total (Heads 6 to 10)		66	9	92	10
(11) Defective Vision (excluding					
Squint)		472	153	129	15
(12) Squint		95	13	16	1
(13) Defective Hearing	***	65	15	67	3
Ear (14) Otitis Media		99	2 3	98	3 16
(15) Other Ear Diseases (16) Chronic Tonsillitis only	****	28 224	291	142	62
Nose and (17) Adenoids only	****	29	7	31	2
Throat (18) Chronic Tonsillitis and Adend		74	15	45	16
(19) Other Conditions		59	18	150	36
20) Enlarged Cervical Glands (Non-Tuberculo	ous)	102	63	88 21	27
21) Defective Speech Heart Heart Disease :-	***	16	17	-1	
and (22) Organic		84	96	71	77
Circula- (23) Functional	***	27	120	37	58
tion (24) Anaemia	***		8	119	19 36
Lungs (25) Bronchitis (26) Other Non-Tuberculous	***	52	34	01	36
Diseases	***	66	106	141	92
Pulmonary :— (27) Definite				_	_
(28) Suspected		10	4	9	11
Tuber- Non-Pulmonary :-					
culosis (29) Glands	***	2	1 2	10	9
(30) Bones and Joints (31) Skin	•••		2	1	
(32) Other Forms			-	-	-
Total (Heads 29 to 32)		3	3	14	9
(33) Epilepsy		4	3	8	5
Nervous (34) Chorea		18	6	50	12
System (35) Other Conditions		9	7	106	51
Defor- (36) Rickets Defor- (37) Spinal Curvature	***	0		6	2
mities (38) Other Forms		126	15	44	16
(39) Other Defects and Diseases (excluding			1	1000	
fects of Nutrition, Uncleanliness and				1 2077	471
Dental Disease)		381	118	1,075	471
Total		2,401	1,128	4,170	1,058

B.—CLASSIFICATION OF THE NUTRITION OF CHILDREN INSPECTED DURING THE YEAR IN THE ROUTINE AGE GROUPS.

AGE GROUPS	Number of	Excellent		Normal		Slightly Sub-normal		Bad	
	Children Inspected	Num	Per- cent- age	Num- ber	Per- cent- age	Num- ber	Per- cent- age	Num- ber	Per- cent- age
Entrants (within 12 months of admission) Second Age Group (8 to	3,270	39	1.2	3,071	93.9	130	4.0	30	0 .9
9 years) Third Age Group (over	2,938	17	0.6	2,664	90 .7	186	6.3	71	2 . 4
12 years) Other Routine Inspec-	2,656	10	0.3	2,473	93 · 1	145	5.5	28	1 - 1
tions	100	-	-	91	91.0	7	7.0	2	2 .0
Total	8,964	66	0.7	8,299	92.6	468	5.2	131	1.5

TABLE III.

RETURN OF ALL EXCEPTIONAL CHILDREN IN THE AREA.

(No child entered under more than one heading).

BLIND CHILDREN.

At Certified	At Public	At other	At no School	Total
Schools for the Blind	Elementary Schools	Institutions	or Institution	
7	-	-	_	7

PARTIALLY SIGHTED CHILDREN.

At Certified Schools for the Blind	At Certified Schools for the Partially Sighted	At Public Elementary Schools	At other Institutions	At no School or Institution	Total
-	32	5	-	-	37

DEAF CHILDREN.

At Certified	At Public	At other	At no School	Total
Schools for the Deaf	Elementary Schools	Institutions	or Institution	
26	_	_	1	27

PARTIALLY DEAF CHILDREN.

At Certified Schools for the Deaf	At Certified Schools for the Partially Deaf	At Public Elementary Schools	At other Institutions	At no School or Institution	Total
-	-	2	_	_	2

MENTALLY DEFECTIVE CHILDREN FEEBLEMINDED CHILDREN.

At Certified Schools for Mentally Defective Children	At Public Elementary Schools	At other Institutions	At no School or Institution	Total
111	-	-	12	123

EPILEPTIC CHILDREN. CHILDREN SUFFERING FROM SEVERE EPILEPSY.

At Certified	At Public	At other	At no School	Total
Special Schools	Elementary Schools	Institutions	or Institution	
2	-	_	2	4

PHYSICALLY DEFECTIVE CHILDREN. A.—TUBERCULOUS CHILDREN.

I.—CHILDREN SUFFERING FROM PULMONARY TUBERCULOSIS.
(Including pleura and intra-thoracic glands).

At Certified	At Public	At other	At no School	Total
Special Schools	Elementary Schools	Institutions	or Institution	
3	-	6	4	13

II.—CHILDREN SUFFERING FROM NON-PULMONARY TUBERCULOSIS. (Tuberculosis of all sites other than those shown in I above).

At Certified	At Public	At other	At no School	Total
Special Schools	Elementary Schools	Institutions	or Institution	
14	-	22	6	42

B.—DELICATE CHILDREN.

(Children—except those included in other groups—whose general health renders it desirable that they should be specially selected for admission to an open-air school).

At Certified	At Public	At other	At no School	Total
Special Schools	Elementary Schools	Institutions	or Institution	
132	132 —		-	132

C.—CRIPPLED CHILDREN.

(Children—other than those diagnosed as suffering from tuberculous and in need of treatment for that disease—who are suffering from a degree of crippling sufficiently severe to interfere materially with a child's normal mode of life).

At Certified	At Public	At other	At no School	Total	
Special Schools	Elementary Schools	Institutions	or Institution		
4	66	-	3	73	

D.—CHILDREN WITH HEART DISEASE.

(Children whose defect is so severe as to necessitate the provision of educational facilities other than those of the Public Elementary School).

At Certified	At Public	At other	At no School	Total
Special Schools	Elementary Schools	Institutions	or Institution	
22	38*	5	5	70

CHILDREN SUFFERING FROM MULTIPLE DEFECTS.

Combination of Defect	At Certified Special Schools	At Public Elementary Schools	At other Institutions	At no School or Institution	Total
Feebleminded and crippled Feebleminded and epileptic	5 2		=	<u>-</u> 4	5 6

^{*} These children attend school only when fit to do so.

ELEMENTARY SCHOOLS.

TABLE IV.

TREATMENT TABLES.

GROUP I.-Minor Ailments (excluding Uncleanliness, for which see Table VI).

		Number of Defects treated or under treatment during the year					
DEFECT O	Under the Authority's Scheme	Otherwise	Total				
Skin :—							
Ringworm—Scalp—						118 (20.9)	
(i) X-ray Treatme	nt	****	****		4	-	4
(ii) Other		****	****		7	-	7
Ringworm—Body	****				70	-	70
Scabies	****	***	****		211	1	212
Impetigo		****			1,008	48	1,056
Other Skin Disease					201	3 .	204
MINOR EYE DEFECTS :-				-	100000	777	
(External and other,	but exc	luding ca	ses fallin	g in		2000	
Group II)	****				31	6	37
MINOR EAR DEFECTS					407	4	411
MISCELLANEOUS							
(e.g., minor injuries, bru	ises, sore	s, chilblai	ns, etc.)		171	93	264
	Tot	al			2,110	155	2,265

GROUP II.—Defective Vision and Squint (excluding Minor Eye Defects treated as Minor Ailments—Group I).

	Number of Defects dealt with			
Defect or Disease	Under the Authority's Scheme	Otherwise	Total	
Errors of Refraction (including Squint) Other Defect or Disease of the Eyes (excluding those	1,376	3	1,379	
recorded in Group I)	266	_	266	
Total	1,642	3	1,645	

	Number of Children for whom Spectacles were					
	Presci	ribed	Obtained			
Defect of Disease	Under the Authority's Scheme	Otherwise	Under the Authority's Scheme	Otherwise		
Errors of Refraction (including Squint)	1,297	3	1,162*	3		

^{*} Including 501 free of charge.

GROUP III.—Treatment of Defects of Nose and Throat.

	20.142					
	Number of Defects					
	Tonsils only	Adenoids only	Tonsils and Adenoids	Other Defects		
Received Operative Treatment— Under the Authority's Scheme, in Hospital By Private Practitioner or Hospital, apart from the Authority's Scheme	135 6	10	232	2		
Total	141	11	233	2		
Received other forms of treatment		42	8			
Total number treated		81	5			

GROUP IV.—Orthopaedic and Postural Defects.

1	Under the Authority's Scheme				Total		
	Residential treatment with education	Residential treatment without education	Non-residential treatment at an orthopaedic clinic	Residential treatment with education	Residential treatment without education	Non-residential treatment at an orthopaedic clinic	Total number treated
Number of children treated	9	_	388	-	_	_	397

TABLE V.

DENTAL INSPECTION AND TREATMENT.

(1) Number of Children inspected by the Dentists:-

	(a) Routine Age-groups $ \begin{pmatrix} 3 & \dots & 149 \\ 4 & \dots & 687 \\ 5 & \dots & 1,741 \\ 6 & \dots & 1,910 \\ 7 & \dots & 2,459 \\ 8 & \dots & 2,544 \\ 9 & \dots & 2,381 \\ 10 & \dots & 2,437 \\ 11 & \dots & 2,418 \\ 12 & \dots & 2,317 \\ 13 & \dots & 2,027 \\ 14 & \dots & 1,073 \\ 15 & \dots & 29 \\ \end{pmatrix} $	22,172
	(b) Specials	 1,506
	Grand Total	 23,678
(2)	Found to require treatment	 17,694
(3)	Actually treated	 7,951*
(4)	Attendances made by children for treatment	 13,769
(5)	Half-days devoted to :— Inspection 129 Treatment 1,720 Total	1,849
(6)	Fillings:— Permanent teeth 5,398 Temporary teeth 193 Total	 5,591
(7)	Extractions:— Permanent teeth 4,091 Temporary teeth 14,686 Total	 18,777
(8)	Administrations of general anaesthetics for extractions	 7,608
(9)	Other operations :— Permanent teeth 1,533 Temporary teeth 8	
	* Including 3,540 who had received treatment previously.	 1,541

TABLE VI.

UNCLEANLINESS AND VERMINOUS CONDITIONS.

(i)	Average number of visits per school made during the year by the School Nurses	3 ·1
(ii)	Total number of examinations of children in the schools by School Nurses 4	10,682
(iii)	Number of individual children found unclean	2,407
(iv)	Number of individual children cleansed under Section 87 (2) and (3) of the Education Act, 1921	_
(v)	Number of cases in which legal proceedings were taken	:
	(a) Under the Education Act, 1921	_
	(b) Under School Attendance Byelaws	_

SECONDARY AND HIGH SCHOOLS.

TABLE I.

MEDICAL INSPECTION.

A .- ROUTINE MEDICAL INSPECTIONS.

Number of Routine Inspections			1,694
B.—OTHER IN	NSPECTION	s.	
Number of Special Inspections			268
Number of Re-inspections			377
Tot	tal		645

C .- CHILDREN FOUND TO REQUIRE TREATMENT.

Number of individual children found at routine medical inspection to require treatment (excluding defects of nutrition, uncleanliness and dental disease):—

Group (1)	For Defective Vision (excluding Squint)	For all other Conditions recorded in Table II A. (3)	Total	
All children inspected	161	135	283	

Note.—No individual child is counted more than once in any column of this table; for example, a child suffering from defective vision and from adenoids appears once in column 2, once in column 3 and once only in column 4.

SECONDARY AND HIGH SCHOOLS. TABLE II.

A .- DEFECTS FOUND BY MEDICAL INSPECTION.

	. Attic "Discount	ROUTINE I	NSPECTIONS	SPECIAL IN	NSPECTIONS
		No. of I		No. of I	
DE	EFECT OR DISEASE	Requiring Treatment	Requiring to be kept under obser- vation, but not requiring Treatment	Requiring Treatment	Requiring to be kept under obser vation, but not requiring Treatment
	(1) Ringworm—Scalp	_	_	_	
] (2) ,, Body	_	-	7 - 11	-
Skin	(3) Scabies	3	-	_	1
	(4) Impetigo (5) Other Diseases (Non-Tuberculous)	3 9	-	2 4	
	(5) Other Diseases (Non-Tuberculous)			-	
	Total (Heads 1 to 5)	15	_	6	_
	(6) Blepharitis	2	1	1	
	(7) Conjunctivitis	-	-	2 ·	-
	(8) Keratitis (9) Corneal Opacities				
	(10) Other Conditions (excluding				
-	Defective Vision and Squint)	1		2	-
Eye .	Total (Heads 6 to 10)	3	1	5	-
	(11) Defective Vision (excluding				
	Squint)	161	25	7	1
	(12) Squint	5	_	_	-
	(13) Defective Hearing	11	5	-	-
Ear ·	(14) Otitis Media	5	-	1	-
	(15) Other Ear Diseases (16) Chronic Tonsillitis only	111	10		
Nose and		î	_	_	
Throat	(18) Chronic Tonsillitis and Adenoids	1	-	_	_
	(19) Other Conditions	8	1	6	-
(20) Enla	rged Cervical Glands (Non-Tuberculous)	2	4	1	1
	ctive Speech	5			
Heart and	(22) Organic	8	17	4	2
Circula-	(23) Functional	9	15	1	1
tion	(24) Anaemia	7	_	1	1
	(25) Bronchitis	1	1		-
Lungs	(26) Other Non-Tuberculous Diseases Pulmonary:—	1	8	10	3
	(27) Definite	_	_	_	_
	(28) Suspected	-	- 2	1992 -	-
Tuber-	Non-Pulmonary:—		-		
culosis	(29) Glands	1			
	(30) Bones and Joints (31) Skin				The same
	(32) Other Forms	-		-	-
	Total (Heads 29 to 32)	1	-	1	-
	(33) Epilepsy			_	_
Nervous ·	(34) Chorea	-	-		-
System	(35) Other Conditions	4		1	1
Deform-	(36) Rickets (37) Spinal Curvature	3			
ities	(38) Other Forms	19	4	10	2
(39) Othe	r Defects and Diseases (excluding				Contract of the Contract of th
	Defects of Nutrition, Uncleanliness and	-	1	21	00
	Dental Disease)	35	17	31	20
		317	108	85	32

B.—CLASSIFICATION OF THE NUTRITION OF CHILDREN INSPECTED DURING THE YEAR AT ROUTINE MEDICAL INSPECTION.

Number of Children Inspected	Excellent		Normal		Slightly Sub-normal		Bad	
	Num- ber	Per- cent- age	Num- ber	Per- cent- age	Num- ber	Per- cent- age	Num- ber	Per- cent- age
1,694	10	0.6	1,637	96 .6	40	2 · 4	7	0.4

SECONDARY AND HIGH SCHOOLS.

TABLE III.

TREATMENT TABLES.

GROUP I.—Minor Ailments (excluding Uncleanliness).

Defect of	Number of Defects treated or under treatment during the year					
DEFECT O	Under the Authority's Scheme	Otherwise	Total			
					A - 0	10
SKIN:-						
Ringworm—Scalp—						
(i) X-ray Treatment	****	****	****			_
(ii) Other	****		****			-
Ringworm—Body	****	****	****		_	
Scabies	****		****	1		1
Impetigo	****	****		1		The same of
Other Skin Disease	****	****		_	-	_
MINOR EYE DEFECTS :-						
(External and other, but	excluding	cases fall	ng in			
Group II)	****				_	
MINOR EAR DEFECTS	****	****	****	11	-	11
MISCELLANEOUS					ANTONIO TENNO	and the state of t
(e.g., minor injuries, bruises	s, sores, chi	Iblains, e	tc.)	5	-	5
	Total			18	-	18

GROUP II.—Defective Vision and Squint (excluding Minor Eye Defects treated as Minor Ailments—Group I).

	Number of Defects dealt with					
DEFECT OR DISEASE	Under the Authority's Scheme	Otherwise	Total			
Errors of Refraction (including Squint)	265	8	273			
Other Defect or Disease of the Eyes (excluding those recorded in Group I)	14	-	14			
Total	279	8	287			

	Number of Children for whom Spectacles were							
DEFECT OR DISEASE	Presci	ribed	Obtained					
DEFECT OR DISEASE	Under the Authority's Scheme	Otherwise	Under the Authority's Scheme	Otherwise				
Errors of Refraction (including Squint)	233	7	230*	7				

[•] Including 9 free of charge.

GROUP III .- Treatment of Defects of Nose and Throat.

		Number of	Defects	
	Tonsils only	Adenoids only	Tonsils and Adenoids	Other Defects
Received Operative Treatment— Under the Authority's Scheme, in Clinic or Hospital By Private Practitioner or Hospital, apart from the Authority's Scheme	8 —	1 -	6 —	- 1
Total	8	1	6	1
Received other forms of treatment		15	2	
Total number treated		28	3	1999

GROUP IV .- Orthopaedic and Postural Defects.

	Under the Authority's Scheme Otherwise				Total		
	Residential treatment with education	Residential treatment without education	Non-residential treatment at an orthopaedic clinic	Residential treatment with education	Residential treatment without education	Non-residential treatment at an orthopaedic clinic	Total number treated
Number of children treated	 3	-	20	-	_	-	.23

TABLE IV.

DENTAL INSPECTION AND TREATMENT.

(1) Number of children inspe	ected by th	he Denti	sts:—				
	(a) Routine A	ge-groups						-
	(b) Specials							836
(2) Found to require treatme	ent						830
(3) Actually treated				••••	****		894*
(4) Attendances made by chi	ildren for	treatmer	nt				2,958
(5) Half-days devoted to :-							
	Inspection						†	
	Treatment						†	
			Total					†
(6) Fillings :—							
	Permanent tee	eth					2,242	
	Temporary tee	eth					2	
			Total					2,244
(7	Extractions:—							
	Permanent tee	eth					763	
	Temporary tee	eth					201	
			Total					964
(8	Administrations of genera	al anaesth	etics for	extractio	ns			467
(9	Other operations :-							
	Permanent tee	eth				****	773	
	Temporary tee	eth					-	
			Total		••••			773

^{*} Including 598 who had received treatment previously.

[†] Special sessions are not devoted to inspection and treatment of secondary and high school children; the numbers of sessions devoted to inspection and treatment of all children are shown on page 164.

MENTAL DEFICIENCY SERVICE.

The mentally defective persons under the care of the Mental Deficiency Committee are classified according to sex, age and form of mental defect in the tables given below. The total number of ascertained defectives for the care of whom the Committee were responsible at the end of 1937 was 640—an increase of 21 over the number at the end of the previous year. Of the total number of cases, 235 were in institutions or under statutory guardianship, the institutions in which they were placed being shown in Table VII. The number of ascertained cases remaining at home was 404, of whom 287 were under statutory supervision and 117 under voluntary supervision; one remained to be appropriately dealt with. In addition, there were 76 cases in institutions under Lunacy Orders and 11 cases in poor-law institutions but not under Orders, who would be dealt with more appropriately under the Mental Deficiency Acts. There were also four cases under consideration but not ascertained definitely to be mentally defective.

Difficulty was experienced during the year in obtaining institutional accommodation for adult mental defectives, in consequence of which special permission had to be sought from the Board of Control for some of them to be admitted to the Public Assistance Institution, Ely, Cardiff, as this institution already had its full complement of cases. The Glamorgan County Council propose to extend Hensol Castle Colony, and the Cardiff Mental Deficiency Committee have agreed to take up 60 beds there (including the 35 already occupied), so that eventually it will be possible to accommodate another 25 Cardiff cases at the Colony.

Fewer cases have been transferred to the care of the Mental Deficiency Committee by the Education Committee during the year—28, as compared with 41 in 1936. The reduction is due mainly to the fact that under the Mental Deficiency Act, 1927, it is possible to deal with low-grade mental defectives by placing them in institutions before they attain the age of seven years without waiting for them to be transferred from the care of the Education Committee.

It will be seen on reference to Table III that 32 and 35 defectives were attending the Occupation and Training Centres respectively. The useful work of the Centres has always been carried on under great difficulties in unsuitable premises. The question of providing adequate and suitable premises has been under consideration for several years, and a site for a new building has now been obtained at Pengam, Cardiff, where it is intended to erect a new combined Occupation and Training Centre at a cost of approximately £4,400. The furniture and equipment required are estimated to cost £300, and the net extra estimated annual cost (including the cost of the conveyance of the children and young persons in attendance from the town centre to the new premises) is £430.

TABLE I. SUMMARY OF WORK, 1937.

(1)			examined for the first time :		Males.			Females.		Total.
	Idiots	0 4425		****		1	****	1	*	- 2
	Imbeciles	7				2		4		6
	Feebleminded	****			****	13		10		23
	Unclassified			****		1		1		. 2
	Not mentally	defective	e			6		2		8
		7	otal			23		18		41
(2)	Re-examination	ns				56		43		99

Table I continued—Summary of Work, 1937.

(3)	Removed	from	list	of	ascertained	cases	under
	supervisio	on at	hom	e-			

(i)	Removed	to	institutions	at	instance	of
	Local .	Aut	hority-			

	Local Authority-	Oi					
		Λ	Iales.	F	emales.	T	otal.
	(a) Obligatory		8		6		14
	(b) Permissive	****					-
	(ii) Removed to institutions at instance Public Assistance Committee—	of					
	(a) Under Lunacy Orders		_		_		
	(b) Other cases		4		2		6
	(iii) Deceased		3		1		4
	(iv) Left Cardiff	****	5		2	****	7
	(v) Admitted to Mental Hospitals			1	1		1
	(vi) Decertified		1				1
					1000		
	Total		21		12		33
(4)	Demoved to institutions (not ensuing down						
(4)	Removed to institutions (not previously un supervision at home)		3	Samo	2	** *)	5
(5)	Total number removed to institutions	or					
	placed under guardianship at the instance						
	Local Authority		11		8		19
(6)	Transferred from one institution to another	er	3		_		3
(7)	Institution or guardianship cases that cea	sed					
	to be chargeable to the Local Authority-						
	(i) Deceased		1	****	3		4
	(ii) On licence		2		4		6
	Total		3		7)	10
					100		
(8)	Instances in which licence from instituti		0		C		0
	or guardianship was granted		2		6		8
(9)	Instances in which cases on licence were	re-			0		0
	turned to guardianship or institutions		THE REAL	1	2		2

Table I c	ontinued—Summary of work, 1	937.		Males.	Females.		Total.
(10)	Cases in which Orders lapsed charged from Orders		lis-	3	 5		8
(11)	Died in Mental Hospitals or tutions		sti-	_	 3		3
(12)	Visits paid by Visiting Officer	rs				:	2,032

TABLE II.

Sources of Ascertainment of Cases Examined for First Time.

Source of Ascertainment	Idiots	Imbeciles	Feeble- minded	Unclass- ified	Not Mentally Defective	Total
Local Education Authority Officers of Public Health Department Public Assistance Department Parents, Guardians or Relatives Other Sources	1 1	3 2 1	$ \begin{array}{c} 17 \\ 2 \\ 1 \\ \hline 3 \end{array} $		2 3 - 3	21 9 4 1 6
Total	2	6	23	2	8	41

TABLE III.
Position at 31st December, 1937.

					Males.		Females.		Total.
(1)	Obliga	tory Cases :—							
	(a)	In Institutions			111		94		205*
	(b)	Under Guardianship			1		3		4
	(c)	On Licence from Insti	tutions		5		10		15
(2)		in regard to whom the I butes under permissive							
	(a)	In Institutions			6		4		10
	(b)	On licence from Instit	ution		-		1		1
	3	Total			123		112		235
(3)		in Institutions under ained to be mentally de							
	(a)	Ely Lodge			33		34		67
	(b)	Mental Hospitals			2		7		9
		Total			35		41		76
				-	-	-		-	-

^{*} Including 16 cases (8 males and 8 females) maintained by the Board of Control.

Table III	continu	ed—Position	at 31st Dec	ember, 193'	7.	Males		Females.	I	otal.
(4)	Cases a	at home—asc	ertained to	be defecti	ve :-	_				
	(a)	Under Statu	tory Super	rvision	****	160		127		287
	(b)	Under Volu	ntary Supe	rvision		49	****	68		117
	(c)	Supervised :	for other A	uthorities		2		6		8
			Total			211		201		412
(5)	Attend (4):—	ling Occupati	on Centre-	-included i	in					
	(a)	Under Statu	itory Supe	rvision		16		14		30
	(b)	Under Volu	ntary Supe	rvision		1		1		2
			Total			17		15		32
(6)	Attend (4):—	ding Training	Centre—ir	icluded in						
	(a)	Under Stat	utory Supe	ervision		14		19		33
	(b)	Under Volu	ntary Sup	ervision	****	1		1		2
			Total			15		20		35
(7)		ct to be dealt en :—	with " but	action not	yet					
	(a)	Notified by I	ocal Educa	ation Auth	ority	1		-		1
	(b)	In Poor Law	Institution	ıs		3	****	8		11
			Total	****		4		8		12
(8)	Under	consideration	but not as	certained t	o be					
						3		1		4
			TA	BLE IV.						

TABLE IV.
CLASSIFICATION OF KNOWN CASES.

	Guardia	stitutions or on nship (includ n licence, etc	ing cases	Under Supervision at Home				
	Males	Females	Totals	Males	Females	Total		
Idiots	17	11	28	9	3	12		
Imbeciles	46	23	69	51	63	114		
Moral Defectives Feebleminded	59	75	134	146	127	273		
Post-encephalitic Deterioration	_	2	2	1		1		
Unclassified or not examined	1	_	1	2	1	3		
Total	123	112	235	209	195	404		

TABLE V.

AGES OF CASES IN INSTITUTIONS OR UNDER GUARDIANSHIP
(INCLUDING CASES ON LICENCE, ETC.)

Ages— Years	Idiots		Idiots Imbeciles			Moral Defectives		Feeble- minded		Post- encephalitic Deterioration		ssified	Total
6.00	M	F	M	F	М	F	M	F	M	F	M	F	
4 5 6 7 9 10 11 12 13 14 15 16 17 18 19 20—25 25—30 30—40 Over 40			1 1 1 1 1 1 3 3 16 6 8 3	- - 1 - - 2 1 1 - - - 6 2 8 1			1 — — — — — — — — — — — — — — — — — — —						3 1 2 1 2 1 3 3 5 4 7 9 6 8 6 6 2 42 5 8 12
Total	17	11	46	23	-	1	59	75	-	2	1	-	235

TABLE VI.
AGES OF CASES UNDER SUPERVISION AT HOME.

Roy St.

St. St.

Ages— Years	Idiots		Imbeciles		Moral Defectives		Feeble- minded		Post- encephalitic Deterioration		Unclassified		Total
	М	F	M	F	M	F	M	F	M	F	M	F	
5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20—25 25—30 30—40 Over 40	- - 1 - - - - - - - 1 1			1 2 - 2 - 4 - 3 3 2 2 4 3 2 14 5 12 4			1 -1 -1 3 -1 4 5 5 10 14 13 8 41 18 16 5		111111111111111111111111111111111111111	ппппппппппппппппппппппппппппппппппппппп	2		4 3 2 8 4 3 6 5 12 11 13 23 34 31 16 105 39 56 29
Total	9	3	51	63	_	1	146	127	1	-	2	1	404

TABLE VII.

CASES IN INSTITUTIONS OR UNDER GUARDIANSHIP.

(a) Obligatory Cases.

Name of Institution, Etc.	Idiots	Imbeciles	Moral Defectives	Feeble- minded	Post- encephalitic Deterioration	Unclassified	Total
(a) Institutions:— Besford Court Catholic Mental Welfare Hospital, Worcester Cardiff Public Assistance Institution, Ely, Cardiff Etloe House, Leyton, Essex Hensol Castle Colony, near Pontyclun, Glam. Hortham Colony, Bristol House of Help, Bath Monkton Hall Home, Jarrow-on-Tyne Moss Side State Institution, Maghull Mount Tabor Certified Institution, Basingstoke Pield Heath House, Hillingdon, Uxbridge Rampton State Institution, Retford Rock Hall House, Combe Down, Bath Royal Earlswood Institution, Redhill St. Elizabeth's Home for Epileptics, Much Hadham, Herts. St. Joseph's Home, The Croft, Sudbury St. Mary's Home, Painswick, Stroud, Glos. St. Raphael's Colony for Epileptics, Barvin Park, Herts. St. Teresa's Home, Lewisham Seafield House, Seaforth, near Liverpool Stoke Park Colony, Stapleton, Bristol	24 	- 43 1 6 - 2 1 1 1 9		3 37 2 29 15 2 1 2 2 - 9 - 3 4 4 3 3 1 8	-		3 105 3 35 15 2 1 1 1 1 1 1 1 3 4 4 4 3 3 1 1 17
(b) Guardianship:— Central Association for Mental Welfare, London Under Guardianship of Parents Approved Homes		1 =	=		=	= -	1 1 2
Total	25	65	1	130	2	1	224

(b) Permissive Cases.

Name of Institution	Idiots	Imbeciles	Feeble- minded	Total
Cardiff Public Assistance Institution, Ely, Cardiff Etloe House, Leyton, Essex Hensol Castle Colony, near Pontyclun, Glam. Royal Earlswood Institution, Redhill Stoke Park Colony, Stapleton, Bristol		2 1 1 -	1 1 1 1	6 1 2 1 1
Total	. 3	4	4	11

TABLE VIII.

Cases under Supervision at Home in Need of Institutional Care and Cases Requiring Alternative Institutional Accommodation as at 31st December, 1937.

		Under		Un	suitably Instit	y placed utions				
	Supervis at Hon		vision Under		acy	Not Under Orders		Total		
		M	F	М	F	М	F	M	F	Both Sexes
Imbeciles		1	11111	4 17 1 14	6 17 — 16 1	_ _ _ 1	- <u>2</u> - <u>5</u>	5 17 1 15	6 19 - 21 1	11 36 1 36
Total		1	_	36	40	1	7	38	47	85