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Contributors

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ANNUAL REPORT

OF THE

Medical Officer of Health

OF THE

GRIMSBY

RURAL DISTRICT COUNCIL

FOR THE YEAR 1948

BY

C. A. McCLEARY,

M.B., B.Ch., B.A.O., D.P.H.,

MEDICAL OFFICER OF HEALTH.

Grimsby :
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Grimsby Rural District Council.

Offices :—DEANSGATE, GRIMSBY.
Tel. :—Grimsby 5371.

Port Sanitary Office :—IMMINGHAM DOCKS.
Tel :—Immingham 218 and 206.

CHAIRMAN OF COUNCIL :—
GEORGE TICKLER, Esq., J.P.

CHAIRMAN OF HEALTH COMMITTEE :—
H. WRIGHT, Esq.

CLERK TO THE COUNCIL :—
P. E. HOPPS, Esq.

MEDICAL OFFICER OF HEALTH :—
DR. C. A. McLEARY.

ASSISTANT PORT MEDICAL OFFICER :—
DR. S. BEDFORD.

SANITARY INSPECTOR :—
MR. C. KING, C.R.S.I.

PORT SANITARY INSPECTOR FOR THE PORT OF IMMINGHAM :—
Mr. W. A. CUNDY, C.R.S.I.

Grimsby Rural District Council.

REPORT OF THE MEDICAL OFFICER OF HEALTH.

TO THE CHAIRMAN AND MEMBERS OF THE
GRIMSBY RURAL DISTRICT COUNCIL.

LADIES AND GENTLEMEN,

I have the honour to present the Annual Report on the Health and Sanitary Conditions of the Grimsby Rural District for the year 1948.

Dr. C. F. LYNCH was appointed Medical Officer of Health to the County Borough of Dover and resigned his duties with the District on the 14th July, 1948. I commenced duties on the 1st February, 1949.

The birth rate was 18.17 per thousand of the population, which is a decrease of 5.43 on the rate for 1947. The corresponding rate for England and Wales was 17.9 and for the smaller towns 19.2.

The death rate was 9.46 per thousand. a decrease of 2.64 on the rate for the previous year. The rates for England and Wales and the smaller towns were 10.8 and 10.7 respectively.

The infantile mortality rate showed a marked decline from 50.0 per thousand live births in 1947 to 23.04 in the year under review. The corresponding rate for England and Wales was 34 and for the smaller towns 32. There were no maternal deaths during the year.

The incidence of infectious diseases showed an increase compared with the previous year due to the greater number of notifications of Measles.

Some changes in administration occured with the coming into force of the National Health Service Act, 1946 on the 5th July, 1948. These are referred to under the appropriate sections.

I wish to tender my appreciation and thanks to the County Medical Officer, Lindsey County Council and to my Sanitary Inspectors for much of the information contained in this Report.

I have the honour to be,

Ladies and Gentlemen,

Your obedient Servant,

C. A. McLEARY.

Medical Officer of Health.

SECTION "A." Vital Statistics.

	Male.	Female.	Total.	
Live Births—Legitimate ...	97	111	208	Birth Rate per 1,000 of estimated resident population 18.17
Illegitimate ...	5	4	9	
	Male.	Female.	Total.	
Still Births—Legitimate ...	2	1	3	Rate per 1,000 Live and Still Births 13.63
Illegitimate ...	—	—	—	
Deaths	58	55	113	

Death Rate per 1,000 of the estimated resident Population .. 9.46

Deaths from Puerperal causes (Headings 29 and 30 of The Registrar General's Short List).

	Deaths.	Rate per 1,000 Total Live and Still Births.
No. 29 Puerperal Sepsis ...	—	—
No. 30 Other Maternal Causes ...	—	—

INFANT MORTALITY. Deaths of Infants under 1 year—

	Male.	Female.	Total.
Legitimate	2	3	5
Illegitimate	—	—	—

All Infants per 1,000 Live Births	23.04
Legitimate Infants per 1,000 Legitimate Live Births ...	24.03
Illegitimate Infants per 1,000 Illegitimate Live Births ...	—
Deaths from Whooping Cough (all ages)	2
Deaths from Measles (all ages)	—
Deaths from Diarrhoea (under 2 years of age)	—
Deaths from Cancer (all ages)	15

NOTIFIABLE DISEASES. Notifications. 1948.

Scarlet Fever	22
Diphtheria	1
Puerperal Pyrexia	1
Erysipelas	4
Pneumonia	11
Chicken Pox	15
Whooping Cough	39
Measles	193
	286

CAUSES OF DEATH IN THE GRIMSBY RURAL DISTRICT. 1948.

	Male.	Female.	Total.
Typhoid and Paratyphoid Fevers ...	—	—	—
Cerebro Spinal Fever	—	—	—
Scarlet Fever	—	—	—
Whooping Cough	—	2	2
Diphtheria	—	—	—
Tuberculosis of Respiratory system ...	3	3	6
Other forms of Tuberculosis	1	—	1
Syphilitic Diseases	—	—	—
Influenza	—	—	—
Measles	—	—	—
Acute Poliomyelitis and Polio encephalitis	—	—	—
Acute Infectious—Encephalitis ...	—	—	—
Cancer—Malignant Disease	5	10	15
Diabetes	—	—	—
Cerebral Vascular Lesions	7	3	10
Heart Disease	21	11	32
Other Disease of Circulatory System ...	2	3	5
Bronchitis	5	2	7
Pneumonia	1	4	5
Other Respiratory Diseases	—	—	—
Ulcer of Stomach or Duodenum	—	1	1
Diarrhoea (under 2 years)	—	—	—
Appendicitis	—	—	—
Other Digestive Diseases	—	3	3
Nephritis	2	1	3
Puerperal and Post-Abortion Sepsis ...	—	—	—
Other Maternal Causes	—	—	—
Congenital Debility, Premature Births, Malformations, etc.	1	3	4
Suicide	—	1	1
Road Traffic Accidents	1	—	1
Other Violence	2	1	3
All other causes	7	7	14
Totals	58	55	113

TUBERCULOSIS. Notifications and Deaths during 1948.

New Cases.				Deaths.			
Pulmonary.		Non-Pulmonary.		Pulmonary.		Non-Pulmonary.	
Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.
6	6	1	3	3	3	1	—
16				7			

SECTION "B."

(*d*) **The Lindsey County Council, from the Clinic, St. Hugh's Avenue, Cleethorpes, provide the following Specialist and Consultant Services:**

Clinic.	*Day.*	*Hour.*
School	Wednesday	9-30 a.m.
School Nurse attends for Treatments	Monday, Wednesday and Thursday	9-30 a.m.
	Tuesday and Friday ...	2-0 p.m.
Eye	Friday (by appointment)	10-0 a.m.
Infant Welfare	Monday and Thursday	2-0 p.m.
Toddler's Clinic	Monday	9-30 a.m.
Ante Natal	Tuesday	9-30 a.m.
Special Treatment (Female)	Thursday	10-30 a.m.
Massage	Monday and Thursday	10-0 a.m.
U.V.R.	Monday and Thursday	9-30 a.m.
Dental	Daily	9-30 a.m.
Rheumatism and Heart ...	monthly by appointment	2-0 p.m.

Tuberculosis—

The Tuberculosis Clinic became merged with the Grimsby Chest Clinic on 1st Oct., 1948, under the N. H. S. Act, 1946. Patients now attend at the Chest Clinic, Abbey Villa, Abbey Road, Grimsby.

Orthopaedic—

Since 5th July, 1948, all orthopaedic patients have been seen by appointment at the Grimsby General Hospital.

Diphtheria Immunization Sessions held at Schools and Infant Welfare and Toddlers Clinics on the appropriate days.

Additional Clinics are held at the following places :—

Immingham—Former Air Raid Shelter, Humberville Road.

Infant Welfare 3rd Monday in the month ... ... 2-0 p.m.

Laceby, Methodist School Room.

Infant Welfare 2nd and 4th Wednesday in the month ... 10 a.m.

Waltham—Mission Hall, New Waltham.

Infant Welfare 2nd Wednesday in the month ... ... 2-0 p.m.

By arrangement with the County Borough of Grimsby facilities for the diagnosis and treatment of Venereal Disease are available at the V.D. Clinic, 38, Queen Street, Grimsby.

The diagnosis and treatment of Veneral Disease became the responsibility of the Regional Hospital Board on 5th July, 1948.

SECTION "C."

SANITARY CIRCUMSTANCES IN THE AREA.

WATER SUPPLY.

This is (1) by constant supply from the Grimsby, Cleethorpes and District Water Board's joint undertaking and is satisfactory in quality and quantity. Samples are taken monthly by the Water Board and the results supplied to the Medical Officer of Health. (2) from deep bore wells in other cases not on the public supply.

Wells	New Sunk	2
	Cleansed, repaired	—
	Closed as polluted	—
Public Supply	Area supplied—Great Coates, Healing, Immingham, Laceby, Irby, Bradley, Brigsley, Waltham and Barnolby ...	
	Percentage of houses supplied ...	85%
	New Cisterns provided	—
	Cisterns cleansed, repaired, covered, etc.	—
Number of Samples obtained for analysis—		
	(*a*) From Wells and Bores	22
	(*b*) From Public supply	4

DRAINS.

Drains, examined, tested, exposed, etc.	24
,, unstopped, repaired, trapped, etc.	35
Waste pipes, rain water pipes, disconnected, repaired, etc.	7
New soil pipes or ventilating shafts fixed	2
Existing soil pipes or ventilating shafts repaired ...	2
Drains reconstructed	3

OFFENSIVE TRADES.

Number of premises in district	5
Number of inspections	164
Contravention of bye-laws	9
Contraventions remedied	9

Offensive Trade bye-laws are in force.

SECTION "D."

REMEDY 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 Authorities or their Officers, 26.

Number of houses taken over by Local Authority and rendered fit for habitation ... ... —

HOUSING ACT, 1936—PART IV.—OVERCROWDING.

Uncontrollable overcrowding in all parts of district.

TOTAL NUMBER OF NEW HOUSES ERECTED DURING THE YEAR.

(1)	By the local Authority	62
(2)	By other Authorities	—
(3)	By other bodies or persons	10
(4)	Conversions by L.A.	16
(5)	Families in converted huts	59

NUISANCES.

Total number of nuisances during the year	153
(1) Abated as result of informal action by Sanitary Inspector	145
(2) Reported to Council—Statutory Notice issued ...	6
Statutory Notice not issued ...	2

DETAILS OF NUISANCES ABATED.

	After Informal Action.	After Statutory Notice.
Overcrowding	3	—
Smoke	—	—
Accumulation of Refuse	46	—
Foul Ditches, Ponds, and Stagnant Water	37	2
Foul Pigs and other Animals	12	—
Dampness	18	3
Yards repaved and repaired	26	—
Other nuisances	5	1

SECTION "E."

INSPECTION AND SUPERVISION OF FOOD.

(*a*) MILK SUPPLY.

Cowstables.

Number on Register	92
Number of Inspections	1184
Contraventions of Regulations	16
Contraventions remedied	16
Number of Milch Cows in district ... ... Approx.	1,500
Veterinary Inspection by County Council ... Quarterly.	

MILK (SPECIAL DESIGNATIONS) ORDER, 1936.

Number of Accredited Premises	22
Number of Accredited Producers	21
Number of T.T. Premises	7
Number of T.T. Producers	6
Any instance of Disease attributed to milk during the year ...	No

56 samples of Accredited Milks were taken by the County Council and submitted for examination during the year. Out of these, 6 failed to pass the prescribed tests. Special visits were made in these cases and appropriate corrective measures taken where indicated. 6 samples Pasteurised milk were taken and submitted to the prescribed tests. 4 proved satisfactory.

The sale of Food and Drugs Act, and Milk and Cream Regulations are administered by the County Council.

(*b*) MEAT AND OTHER FOODS.

Slaughterhouses—Horse Slaughtering for human food ...	1
Horses slaughtered	155

Bakehouses.

Number in District	4
Number of underground bakehouses	Nil
Number of inspections	125
Contraventions of Factory Acts	2
Defects remedied	2

All bakehouses are lime-washed, etc., twice a year.
These are, generally speaking, very satisfactory.

Articles of Food condemned as unfit for Human consumption.

Horse Livers	48

SECTION "F."
DISINFECTION AND DISINFESTATION.

Rooms disinfected	34
(*a*) Ordinary Infectious Disease	20
(*b*) Tuberculosis	14
Rooms stripped and cleansed	10
Articles disinfected or destroyed ... ... (lots)	43
(*a*) Ordinary Infectious Disease	32
(*b*) Tuberculosis	11

Table showing the number of Infectious Diseases notified in each Parish

PARISH.	Chicken Pox.	Diphtheria.	Measles.	Whooping Cough.	Pneumonia.	Erysipelas.	Puerperal Pyrexia	Scarlet Fever.	TOTAL.
Ashby	—	—	2	—	—	—	—	—	2
Barnolby	—	—	1	—	—	—	—	—	1
Beelsby	—	—	6	—	—	—	—	—	6
Bradley	—	—	2	—	—	—	—	—	2
Brigsley	—	—	2	2	—	—	—	1	5
Great Coates ...	—	—	23	—	2	—	—	1	26
Habrough	1	—	4	1	—	—	—	—	6
Hatcliffe	—	—	15	1	—	—	—	—	16
Healing	1	—	34	1	1	—	—	2	39
Humberston ...	1	1	23	8	5	—	—	8	46
Immingham ...	4	—	45	14	1	1	—	4	69
Laceby	3	—	6	2	1	—	—	2	14
Stallingborough...	—	—	1	—	—	—	—	—	1
Waltham	5	—	29	10	1	3	1	4	53
Totals ...	15	1	193	39	11	4	1	22	286

NOTIFIABLE DISEASES DURING YEAR 1948 ACCORDING TO AGES.

DISEASE.	Under 1 year.	1—2 years.	2—3 "	3—4 "	4—5 "	5—10 "	10—15 "	15—20 "	20—25 "	25—45 "	45—65 "	Over 65 years.	Totals
Chicken Pox	—	1	—	3	—	7	1	3	—	—	—	—	15
Diphtheria	—	—	—	—	—	—	—	—	1	—	—	—	1
Whooping Cough ...	6	6	5	4	8	10	—	—	—	—	—	—	39
Scarlet Fever	—	—	—	2	1	13	4	1	—	1	—	—	22
Pneumonia	—	1	1	—	—	1	—	2	1	—	3	2	11
Measles, ...	6	15	19	23	16	104	7	—	1	1	—	1	193
Erysipelas	—	—	1	1	—	—	—	—	—	1	1	—	4
Puerperal Pyrexia ...	—	—	—	—	—	—	—	—	1	—	—	—	1
Totals	12	23	26	33	25	135	12	6	4	3	4	3	286

DIPHTHERIA IMMUNISATION.

Immunisation of the child population was continued throughout the year. The Prophylactic used was Alum Precipitated Toxoid (A.P.T.) with 4 weeks interval between doses.

During the year a total of 125 children completed a primary course of injections. In age groups the numbers are as follows :—

Under 5 years, 101 ; 5 to 15 years, 24.

I am indebted to the County Medical Officer for providing this information.

SCHOOL MEDICAL SERVICES.

These services are provided by the County Council and I am indebted to the County Medical Officer for permission to include the following details of work carried out during the year in my capacity as School Medical Inspector.

A.—ROUTINE MEDICAL INSPECTION.

(Exclusive of special and supervisory examanitions).

GROUP.	Inspected	Number of Children found to require treatments (excluding uncleanliness and dental diseases		
1	2			3
Prescribed Groups.		Vision	Other Defects	Total individual children requiring treatment.
Entrants	131	3	39	39
Second Age Group ...	107	10	22	29
Third Age Group	51	2	8	10
Total (prescribed groups)	289	15	69	78

B.—DEFECTS FOUND IN THE COURSE OF MEDICAL INSPECTION.

DEFECT.	Routine Inspections.		Special Inspections.	
	Requiring Treatment	Requiring observation but not Treatment	Requiring Treatment	Requiring observation but not Treatment
SKIN	2	6	—	—
EYE.				
(a) Defective Vision (excluding Squint)	15	11	—	—
(b) Squint	3	2	—	—
(c) Other conditions	2	10	—	—
EAR.				
Defective Hearing	3	1	—	—
Otitis Media	2	4	—	—
Other Ear Diseases	1	11	—	—
NOSE AND THROAT	17	44	1	—
ENLARGED CERVICAL GLANDS	1	10	—	—
DEFECTIVE SPEECH	3	6	—	—
HEART AND CIRCULATION ...	16	3	—	—
LUNGS	4	9	1	—
DEVELOPMENTAL·				
(a) Hernia	2	—	—	—
(b) Other	1	1	—	—
ORTHOPAEDIC.				
(a) Posture	1	2	—	—
(b) Flatfeet	—	2	—	—
(c) Other	4	19	—	1
NERVOUS SYSTEM.				
Epilepsy	—	1	—	—
Other conditions	—	—	—	—
PSYCHOLOGICAL.				
(a) Development	11	2	2	2
(b) Stability	1	1	—	—
OTHER DEFECTS AND DISEASES (excluding Uncleanliness and Dental Diseases)	5	13	—	1

C.—STATE OF NUTRITION.

Allscholars examined were classified in 3 Groups :—A.—Good. B.—Fair. C.—Poor.

	A.	B.	C.
GROUP—Entrants	5	105	21
Second age group	15	77	15
Third age group	7	43	—
Total (prescribed groups)	27	225	37

ANNUAL REPORT OF MEDICAL OFFICER OF HEALTH FOR 1948

PORT OF IMMINGHAM. 1948. ALSO KILLINGHOLME JETTY AND WHITE BOOTH ROADS. (River Humber).

1—AMOUNT OF SHIPPING ENTERING THE PORT DURING THE YEAR 1948.

TABLE A.

		Number	N.R.T.	Number by Medical Officer.	Inspected by Sanitary Inspector.	Number reported to be Defective.	Number of Vessels on which defects were remedied.	Number of Vessels on which defects were found and reported to Ministry of Transport Surveyor	Number of Vessels reported as having or having had during the voyage Infectious Disease on board.
Foreign	Steamers	446	878,372	45	446	113	113	Nil	7
	Motor	87	149,485	30	87	9	9	Nil	Nil
	Sailing	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
	Fishing	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total Foreign		533	1,027,857	75	533	122	122	Nil	7
Coastwise	Steamers	406	660,596	36	406	57	57	Nil	1
	Motor	66	64,032	12	66	12	12	Nil	Nil
	Sailing	Nil	Nil	Nill	Nill	Nil	Nil	Nil	Nil
	Fishing M/V	1	126	Nil	1	Nil	Nil	Nil	Nil
	Small Craft Barges, Tugs, etc.	1,182	166,118	Nil	67	9	9	Nil	1
Total Coastwise		1,655	890,872	48	540	78	78	Nil	1
Total Foreign&Coastwise		2,188	1,918,729	123	1,073	200	200	Nil	8

11.—CHARACTER OF TRADE OF PORT.

TABLE B.

(*a*) **Passenger Traffic during the Year.**

No. of Passengers.	1st Class.	2nd Class.	3rd Class.	Transmigrants.
Inwards	Nil	Nil	Nil	Nil
Outwards	Nil	Nil	Nil	Nil

(*b*) **Cargo Traffic.**

Principal Imports ... Iron Ore, Timber, Pit Props, Grain. Total tonnage imported ... 658,302 tons.
" Exports ... Coal and Coke—1,762,804 tons. General—146,973 tons.

(*c*) **Foreign Ports from which Vessels arrive.**

Norway, Sweden, Denmark, Baltic Ports, Germany, Holland, France, Belgium, Spain, Portugal, North African Ports, West African Ports, Canada, U.S.A., Iceland, South America, Australia, etc.

MEDICAL INSPECTION OF ALIENS.

Annual return by the Medical Inspector of Aliens for the year ended 31st December, 1948.

	Total	Number Inspected by the Medical Inspector.	Number Subjected to detailed Examination by the Medical Inspector	Certificates Issued.					Transmigrants.
				Lunatic Idiot or M.D.	Undesirable for Medical reasons.	Physically Incapacitated.	Suffering from acute Infectious Disease.	Landing necessary for adequate medical examination.	
(*a*) Total number of Aliens landing at the Port ...	129	91	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(*b*) Aliens refused permission to land by Immigration Officer, including stowaways	20	12	Nil	Nil	Nil	Nil	Nil	Nil	Nil
(*c*) Transmigrants	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Total Aliens arriving at the Port	149	103	Nil	Nil	Nil	Nil	Nil	Nil	Nil

MEDICAL INSPECTIONS OF ALIENS—(*Continued*).

Total number of vessels carrying alien passengers	56
Number of vessels dealt with by the Medical Inspector ...	33

III.—WATER SUPPLY.

1—Source of supply—

(*a*) the Port : Two deep Bores. (*b*) shipping : Piped to all Quays.

2—Hydrants and Hosepipes,—What precautions are taken against contamination—
Regular inspection, flushing and washing before use.

3—Number of Water Boats and their Sanitary condition—
Two Tugs with special fresh water tanks, these tanks are cleansed and limewashed every six months.

IV. PORT HEALTH REGULATIONS, 1933 and 1945.

1—Arrangements for dealing with Declarations of Health—
Collected by Customs Officer or Port Health Officer, whoever boards vessel first.

2—Boarding of vessels on arrival—
Inward vessels at Jetties or in Locks, in River by Tug.

3—Notification to the Authority of inward vessels requiring special attention (wireless messages, land signal stations, information from Pilots, Customs Officers, Agents, etc.).—

By radio direct to Humber Radio Station thence telephone to Port Health Office.
By telephone from Water Guard Boarding Officer.

4—Moorings Stations designated under Article 10—
(*a*) within the Docks, Timber Pond Jetties, 300 ft. Quay, No. 3 Quay extension.
(*b*) Eastern or Western Jetties according to tide.

5—Particulars of any standing exemptions from the provisions of Article 14—
None.

6—Experience of working Article 16—
Satisfactory, Crew Lists, with addresses obtained.

PORT HEALTH REGULATIONS—(*Continued*).

7—What, if any, arrangements have been made—

(*a*) Premises and waiting rooms for medical examination—
Medical Examination and Waiting Room has now been established and fitted with necessary medical equipment to Medical Officer's requirements.

(*b*) Cleansing and disinfection of ships, persons and clothing and other articles—
Infected rooms, berths, etc., treated with Formaldehyde, by spraying or fumigation with H.C.N., or S.O.2, if necessary. Delousing, etc., of infected persons carried out at Scarthoe Institution, Grimsby. Infected bedding, clothing and other personal articles disinfected at Disinfector Station, Grimsby, either by steam or Formaldehyde as required

(*c*) Premises for the temporary accommodation of persons for whom such accommodation is required for the purposes of the Regulations—
Scarthoe Institution, Grimsby.

(*d*) Hospital accommodation available for Plague, Cholera, Yellow Fever, Small Pox and other infectious diseases—
Scarthoe Isolation Hospital, Grimsby.

(*e*) Ambulance transport—
Service as required from Clethorpes Ambulance Station.

(*f*) Supervision of contacts—
After release, notification to Medical Officer of Local Authority concernəd.

8—Arrangements for bacteriological or pathological examination of rats for plague—
Specimens sent to Grimsby General Hospital. (Pathological Dept.)

9—Arrangements for other bacteriological or pathological examinations—
Medical Officer's Dept., Cleethorpes.

10—Information as to the location, days and hours of the available facilities for the diagnosis and treatment of venereal disease among merchant seamen under international arrangements, including in-patients treatment, also as to the steps taken to make these facilities known to seamen—Notices displayed on Dock Estate. Special V.D. leaflets left on board on vessels arrival.

11—Arrangements for the interment of dead—
Arrangements in conjunction with Grimsby Corporation Cemetery Dept.

12—Other matters if any requiring or receiving attention—
None.

TABLE C.

Cases of Infectious Diseases landed from Vessels.

No. of Cases during the year.

Disease.	Passengers.	Crew.	No. of Vessels concerned.	Average No. of cases for previous 5 years.
Pneumonia	Nil	2	2	0.2
Mumps	Nil	1	1	0.4
Scabies	Nil	1	1	1.5
Eczema	Nil	1	1	0.5

TABLE D.

Cases of Infectious Sickness occurring on Vessels during the voyage but disposed of prior to arrival.

No. of Cases during the year.

Disease.	Passengers.	Crew.	No. of Vessels concerned.	Average No. of cases for previous 5 years.
Malaria	Nil	2	1	0.5

If any case of plague, cholera, yellow fever, small pox or typhus occurred, or plague infected rats were discovered, or if any severe outbreak of malaria occurred, on an arriving ship during the year, a short account should be given of the steps taken.

In any case of plague, cholera, etc., occurring, vessel concerned would be directed to designated mooring station, for medical examination of passengers, and crew, and necessary disinfection of persons, and clothing, etc. If plague infected rats were discovered vessel would be boomed off and thorough fumigation of all compartments including holds with cargoes, with H.C,N. During discharge of any cargoe special watch would be kept throughout discharge for further rats.

V. MEASURES AGAINST RODENTS.

1—Steps taken for detection of rodent plague—

(*a*) In ships in the Port, routine inspection of all compartments, including holds, bunkers, etc., during vessels stay in port, laboratory examination of any rats caught or found dead.

(*b*) On quays, wharves, warehouses, and in the vicinity of the port. Regular inspection of all quays, wharves, warehouses, prompt disposal of all refuse, examination of any dead rats reported or found, Special investigation where excessive mortality against rats is reported or found.

2—Measures taken to prevent the passage of rats between ships and the shore. Standard ratguards on all moorings, gangways well lighted during hours of darkness, and hauled well above quay level, instructions to officer in charge of ship.

3—Method of deratization of (*a*)—Ships. Fumigation with H.C.N. liquid or crystal form, and S.O.2 ; (*b*)—Premises in the vicinity of docks or quays. Fumigation if practicable, trapping and cats.

4—Measures taken for the detection of rat prevalence in ships and on shore ; Regular inspection by Port Health Officers, observation of rat runs, damage to cargo, goods, etc.

5—Rat-proofing

(*a*) To what extent are docks, wharves, warehouses, etc., rat-proof. Dock sheds are single storey, with concrete flooring and all metal fitments, very little ratharbourage exists. Necessary rat-proofing carried out where found necessary.

(*b*) Action taken to extend rat-proofing (1) in ships, instructionsand guidance to Masters or Officers in charge, re-wiring of storerooms, gratings, etc., sheet tinning of wooden bulkheads, beam openings, etc. Collaboration with Dock Authorities. Advice and guidance given where necessary. (2) on shore, as above.

TABLE E.

Rats destroyed during the year.

1—On Vessels.

Number of Rats.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total in Year.
Black	Nil	Nil	Nil	Nil	12	Nil	Nil	57	7	Nil	Nil	Nil	76
Brown	Nil	59	Nil	57	Nil	6	Nil	Nil	Nil	Nil	Nil	8	130
Species not recorded	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Examined	Nil	1	Nil	1	1	1	Nil	1	1	Nil	Nil	1	7
Infected with plague	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

TABLE F.

2—In Docks, Quays, Wharves and Warehouses.

Number of Rats.	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total in year.
Black	2	1	2	Nil	Nil	Nil	Nil	1	Nil	Nil	Nil	1	7
Brown	5	10	5	2	16	1	4	Nil	2	10	6	9	71
Species not recorded	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Examined	Nil	1	1	Nil	1	Nil	Nil	Nil	Nil	1	1	1	6
Infected with plague	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

TABLE G.

Measures of rat destruction on Plague 'Infected' or 'Suspected' Vessels or Vessels from Plague infected Ports arriving in the Port during the year.

Total number of such vessels arriving.	Number of such vessels fumigated by S.O.2.	Number of Rats killed.	Number of such vessels fumigated by H.C.N.	Number of rats killed.	Number of such vessels on which trapping, poisoning, etc., were employed.	Number of rats killed.	Number of such vessels on which measures of rat destruction were not carried out.
1	2	3	4	5	6	7	8
Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil

TABLE H.

Deratization Certificates and Deratization Exemption Certificates issued during the year.
Number of Deratization Certificates issued.

N.R.T.	No. of Ships.	After Fumigation with			After Trapping, Poisoning, etc.	Total	No. of Deratization Exemption Certificates Issued.	Total Certificates Issued.
		H.C.N.	S.O.2.	H.C.N. and S.O.2.				
1	2	3	4	5	6	7	8	9
Ships up to 300 tons	1	Nil	Nil	Nil	Nil	Nil	1	1
,, from 301 to 1,000 tons ...	17	Nil	Nil	Nil	Nil	Nil	17	17
,, from 1,001 to 3,000 tons ...	40	5	Nil	Nil	Nil	5	35	40
,, from 3,001 to 10,000 tons ...	47	7	Nil	Nil	Nil	7	40	47
,, over 10,000 tons	Nil	Nil	Nil	Nil	Nil	Nil	Nil	Nil
Totals	105	12	Nil	Nil	Nil	12	93	105

VI. Hygiene of Crews' Spaces.

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	426	2	49	75
Other Nations	580	Nil	63	47

VII. Food Inspection.

1—Action taken under the Public Health (Imported Food) Regulations, 1937, the Public Health (Imported Milk) Regulations, 1926, and the Public Health (Preservatives, etc., in Food) Regulations, 1925 to 1940. *None.*

2—Shell-fish. Information respecting any shell-fish beds or layings within the jurisdiction of the P.S.A., stating whether they are in the opinion of the Medical Officer liable to pollution. Report of any action taken under the Public Health (Shell fish) Regulations, 1934, or the Food and Drugs Act, 1938. *None.*

3—Number of Samples of Food examined by—(*a*) Bacteriologist. Nature of Sample. Result of Examination. *None.*
(*b*) Analyst. ,, ,, ,, ,, *None.*

C. A. McCLEARY,

Medical Officer of Health.