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River Tees Port Health Authority.

Publication/Creation

1938

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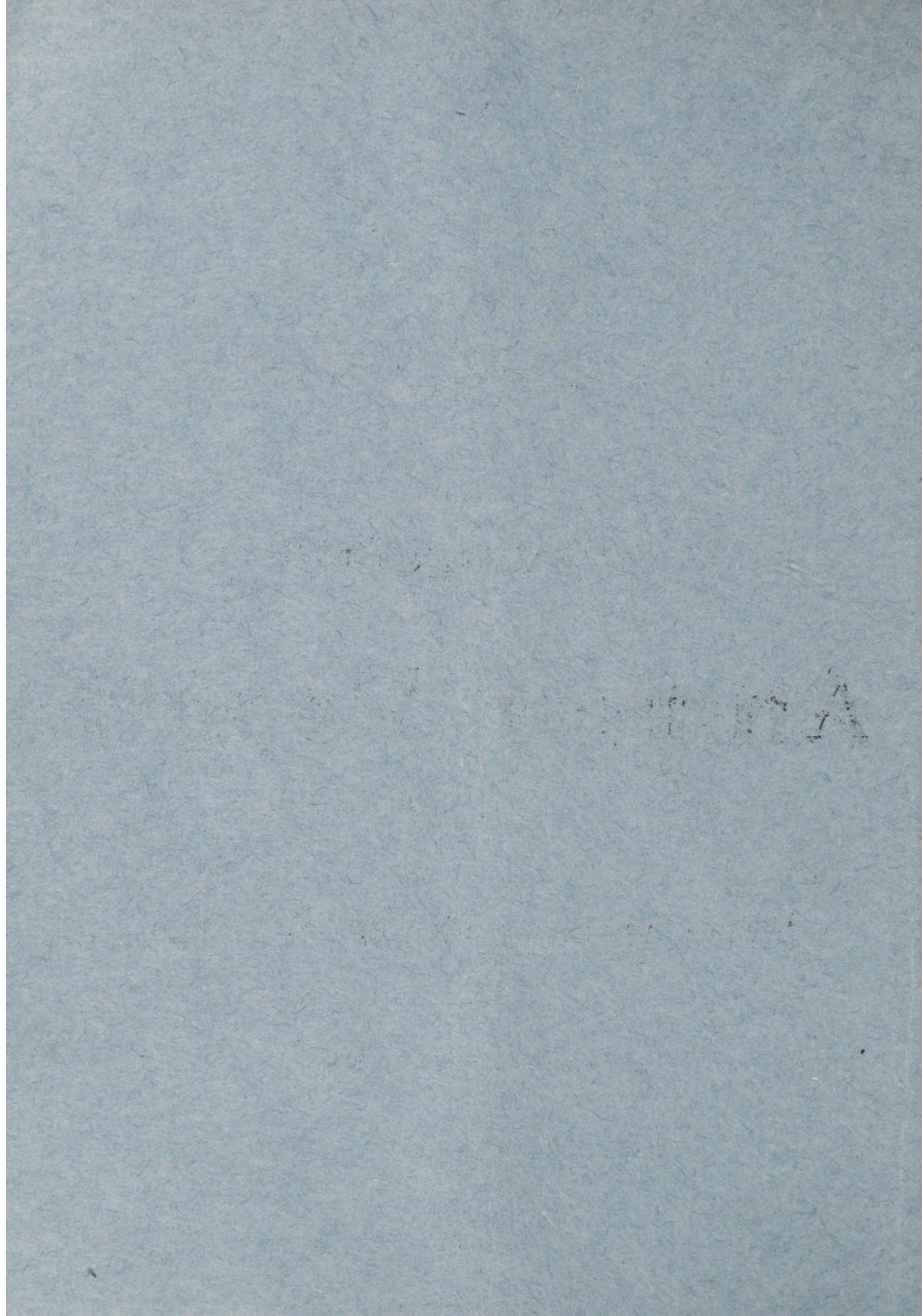
RIVER TEES PORT
HEALTH AUTHORITY

FIFTY-SECOND

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH.



1938



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FIFTY-SECOND

Annual Report

OF THE

MEDICAL OFFICER OF HEALTH.

RIVER TEES PORT HEALTH AUTHORITY.

LIST OF MEMBERS, 1938—1939.

Middlesbrough Corporation

Representatives :

Alderman S. A. Sadler, J.P.
 (Chairman)
 Alderman A. Elstrop, J.P.
 Councillor Sir W. H. Crosthwaite,
 J.P.
 Councillor W. Eckert.
 Councillor H. French.
 Councillor H. D. Levick, J.P.,
 F.R.C.S.
 Councillor J. Taylor.
 Councillor H. Cordeux.

Stockton Corporation Representatives :

Alderman R. Spark, J.P.
 Alderman C. W. Allison.
 Alderman J. Goldston.
 Alderman E. Pickworth, J.P.

Thornaby Corporation

Representatives :

Alderman E. E. Brennan.
 Councillor L. V. Trevett.

Eston U.D.C. Representatives :

Councillor E. J. Blanchard.
 Councillor W. Evans.
 Councillor W. Fairbrass.

Stockton R.D.C. Representatives :

Councillor A. E. Ward.
 Councillor C. H. Parkinson.

Redcar Corporation

Representatives :

Alderman C. Harris.
 Councillor J. S. Dixon.

Billingham U.D.C. Representatives :

Councillor Mrs. A. Martin.
 Councillor Mrs. J. McLean.
 Councillor Mrs. H. C. Davies.

STAFF OF THE PORT HEALTH AUTHORITY, 1938.

Clerk to the Board.—G. W. W. BARNLEY.

Deputy Clerk.—T. A. BANKS.

Medical Officer.—C. METCALFE BROWN, M.D., D.P.H., Barrister-at-Law.

Deputy Medical Officer.—T. LLOYD HUGHES, M.D., D.P.H., Barrister-at-Law.

Sanitary Inspector.—A. N. JONES, C.R.S.I.

Assistant Sanitary Inspector.—R. J. KNOTT, C.R.S.I.

Rat Searcher.—T. WARWICK.

Launch Hands.—One Engineer and one Deck Hand.

RIVER TEES PORT HEALTH AUTHORITY.

*To the Chairman (Alderman S. A. Sadler, J.P.) and Members of
the River Tees Port Health Authority.*

GENTLEMEN,

I have pleasure in submitting the FIFTY-SECOND ANNUAL REPORT on the work of the River Tees Port Health Authority for the year ended December 31st, 1938.

The number of vessels entering the Port during the past year shows a slight decrease on that of the previous year. 3141 Inspections were made against 3357 in 1937 and 3041 in 1936.

TABLE A.

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

		Number	Tonnage	NUMBER INSPECTED		Number reported to be Defective	Number of Vessels on which defects were remedied	Number of Vessels reported as having or having had, during the voyage infectious disease on board
				By the Medical Officer of Health	By the Sanitary Inspector			
FOREIGN -	Steamers -	1,146	2,093,999	168	1,137	51	51	30
	Motor -	229	380,944	44	226	4	4	3
	Sailing -	—	—	—	—	—	—	—
	Fishing -	—	—	—	—	—	—	—
Total Foreign - -		1,375	2,474,943	212	1,363	55	55	33
COASTWISE	Steamers -	1,003	371,328	152	993	14	14	1
	Motor -	783	182,284	60	772	1	1	—
	Sailing -	2	138	—	2	—	—	—
	Fishing -	11	1,068	—	11	—	—	—
Total Coastwise - -		1,799	554,818	212	1,778	15	15	1
Total Foreign and Coastwise		3,174	3,029,761	424	3,141	70	70	34

CHARACTER OF TRADE OF PORT

TABLE B.

(A.)—PASSENGER TRAFFIC DURING THE YEAR.

No. of passengers	Cabin class only	Transmigrants
INWARDS		
British	410	Nil.
Aliens	108*	140
OUTWARDS		
British	203	Nil.
Aliens	36	140

The River Tees is not an accredited Aliens Port. The passenger traffic is to and from London and Eastern North Sea Ports. *Includes 6 Stowaways.

(B.)—CARGO TRAFFIC.

IMPORTS INTO THE RIVER TEES FOR THE YEAR ENDING 31st OCTOBER, 1938.

(Figures supplied by courtesy of the General Manager of the Tees Conservancy Commission.)

ORES :	<i>Tons.</i>
Iron	2,045,468
Manganese	78,714
Chrome	6,687
IRON AND STEEL :	
Pig Iron	29,165
Billets, C.S. Bars.	29,680
Manufactured... ..	7,237
Scrap	54,288
Machinery	5,170
Loam	31,667
Sand (of all kinds)... ..	17,352
Cement	13,718

Manures (chemical)	...	...	...	...	30,625
Creosote Oil	...	...	...	...	26,424
Petrol, Oil	...	...	...	...	14,340
Corn	...	...	...	...	53,172
Provisions	...	...	...	...	9,367
Sugar and Glucose	...	...	...	...	8,265
Paper	...	...	...	...	1,686
Spelter and Zinc	...	...	...	...	1,754
Wood	...	...	...	...	27,078
Magnesite	...	...	...	...	4,165
Chemicals and Chemical Products					
(other than Chemical Manures)	...	...	...	...	12,578
Glass and Earthenware	...	...	...	...	527
Bags (empty)	...	...	...	...	4,950
Phosphate Rock	...	...	...	...	47,699
Sulphur (Crude)	...	...	...	...	6,322
Sundry Goods	...	...	...	...	22,088
Total	...	...	...	...	2,589,586 tons
Last year	...	...	...	...	2,829,482 tons
<i>Decrease</i>	...	...	...	...	239,896 tons

EXPORTS FROM THE RIVER TEES FOR THE YEAR ENDING 31st OCTOBER, 1938.

(Figures supplied by courtesy of the General Manager of the Tees Conservancy Commission)

IRON AND STEEL :						Tons
Pig Iron	...	...	...	...	...	31,503 ✓
Rails and Fishplates	...	...	...	...	...	60,901 ✓
Castings	...	...	...	...	...	69,122 ✓
Angles, Bars and Plates	...	...	...	...	...	131,885 ✓
Bridgework	...	...	...	...	...	2,039 ✓
Girders and Joists	...	...	...	...	...	29,562 ✓
Scrap	...	...	...	...	...	1,417
Galvanized Sheets	...	...	...	...	...	12,718
Machinery	...	...	...	...	...	9,060
Carriage and Wagonwork	...	...	...	...	...	528
Wire (of all descriptions)	...	...	...	...	...	8,988
Manufactured (of all kinds other than the above)	...	...	...	...	...	121,333
Bunker Coal (over 500 tons)	...	...	...	...	...	156,649 ✓
Cargo Coal	...	...	...	...	...	186,962 ✓
Coke	...	...	...	...	...	57,381
Slag Basic (or Phosphate Powder)	...	...	...	...	...	18,621
Salt	...	...	...	...	...	21,633
Sulphate of Ammonia	...	...	...	...	...	248,774
Chemicals and Chemical Products (other than Sulphate of Ammonia)...	...	...	...	...	...	142,426
Pitch and Tar	...	...	...	...	...	93,446
Cement (of all kinds)	...	...	...	...	...	5,573
Creosote Oil	...	...	...	...	...	31,292
Benzole	...	...	...	...	...	22,314
Petrol	...	...	...	...	...	79,599
Paper	...	...	...	...	...	767
Paint	...	...	...	...	...	2,538
Corn	...	...	...	...	...	4,300
Slag (rough)	...	...	...	...	...	285,253
Glass and Earthenware	...	...	...	...	...	490
Sundry Goods	...	...	...	...	...	26,767
Total						1,863,841 tons
Last Year						2,076,797 tons
Increase						212,956 tons

Countries from which Vessels arrive.

Iron and other ores are imported from Norway and Baltic Ports, Spain, Africa and India.

Corn and cereals are transhipped from Hull.

Groceries arrive from London and other foods from Rotterdam and Antwerp.

With the exception of vessels carrying ore, the majority entering this Port have previously called at one or more home ports before arrival here.

SOURCE OF WATER SUPPLY.

(A.)—FOR THE PORT. The water is drawn from the Middlesbrough supply, which is maintained by the Tees Valley Water Board. This water is kept under constant supervision and is abundant and of good quality.

(B.)—FOR SHIPPING. Vessels draw their water supply from hydrants on the wharves, the town supply serving these hydrants. Very exceptionally ships laid up at the buoys in the river or not going to a wharf are supplied from tanks on two of the river tug boats, having a capacity of 60 and 45 tons respectively. These tanks are cleaned out before being used. There is also a very small tank on a sand barge which is used very exceptionally. This tank is kept under observation and cleaned out prior to use.

PORT SANITARY REGULATIONS.

ARRANGEMENTS FOR DEALING WITH DECLARATIONS OF HEALTH.

(1.) These are collected each morning from the Customs House.

(2.) The Declarations are handed to the Customs Officer or Inspector of the Port Health Authority whoever is first to board the ship. The number of Declarations of Health received during 1938 was 578. No night service of inspection is maintained, except in the case of vessels signalling their need for special attention or having infectious disease on board. Messages by wireless are received from the Cullercoats receiving station and are generally delivered direct to the Port Medical Officer.

(3.) The Shipping Agents have agreed to the prompt transmission to the Medical Officer of any messages received by them under Article 6 of the Regulations. Messages are also received by Morse signalling from the Tees Bay to the Lightkeepers on the breakwater and are telephoned to the Medical Officer. The appropriate flag and light signals are being observed. The Customs Officers and Pilots co-operate readily in notifying the Medical Officer of any suspicious illness on board vessels entering the Port.

(3a.)—BOARDING OF VESSELS. All vessels reporting sickness on board are boarded by the Medical Officer and Inspector ; other vessels are boarded as soon as practicable.

(4.)—MOORING STATIONS DESIGNATED UNDER ARTICLE 10. There is a mooring station outside the docks situated in the river at the Eston No. 4 Buoys. This station is for vessels infected or suspected on account of :-

(4a.)—PLAGUE, CHOLERA, YELLOW FEVER, TYPHUS OR SMALLPOX. Ships entering the port with a case of infectious disease other than the above are allowed to proceed to their place of mooring, but are quarantined until visited and declared clear.

(5.)—The regulations under Article 16 have been carried out without difficulty during the year.

(6.)—ARRANGEMENTS FOR WAITING-ROOMS FOR MEDICAL EXAMINATION, CLEANSING AND DISINFECTION OF SHIPS, PERSONS AND CLOTHING.

- (A.) There is no accommodation for waiting-rooms. Disinfection of ships for the prevention of infectious disease is carried out by the Port Health Staff.
- (B.) Bedding and clothing are either burnt or removed to the Isolation Hospital for disinfection.
- (C.) Members of the crew are also removed to this hospital and are accommodated in a building reserved for this purpose whilst they are bathed and their clothes disinfected.
- (D.) Accommodation is reserved at West Lane Isolation Hospital for any infectious disease case admitted from the Port.
- (E.) Ambulances are available for the removal of such cases.
- (F.) All contacts are kept under daily supervision and the Medical Officer of the next port of call is intimated. The names and addresses given by persons allowed to leave under Article 16 are forwarded to the Medical Officer of Health of such districts.

(7 and 8.)—ARRANGEMENTS FOR BACTERIOLOGICAL EXAMINATION OF RATS FOR PLAGUE. Specimens of rats caught on ships and wharves are sent monthly to the Clinical Research Association (London), who report on post-mortem and cultural examinations. All rats destroyed are examined by the Rat Searcher for evidence of disease. Pathological specimens are examined locally or sent to the above association.

(9.)—ARRANGEMENTS FOR THE DIAGNOSIS AND TREATMENT OF VENEREAL DISEASE. The Municipal Venereal Disease Clinic is at the Municipal Hospital and all seamen found to be suffering from these diseases are advised to attend.

Notices printed in various languages giving full particulars of the services of the Clinic are left on board the vessels. Special notices have been sent to all Consuls, Vice-Consuls, Shipping Agents and the Missions to Seamen drawing their attention to the facilities available to seamen for the treatment of these diseases. The attendance at the Clinic has shown a slight increase over last year. The following gives the nationality of those treated during the past year :

**COUNTY BOROUGH OF MIDDLESBROUGH,
MUNICIPAL HOSPITAL.**

***Number of Seamen treated at the Special Treatment Centre
during 1938.***

<i>Nationality.</i>							<i>Number.</i>
British	...	...	...	...	...	...	63
Australian	...	...	...	...	...	...	1
Maltese	...	...	...	...	...	...	2
British Indian	...	...	...	...	...	...	18
British Malayan	...	...	...	...	...	...	1
French	...	...	...	...	...	...	2
Finnish	...	...	...	...	...	...	14
Norwegian	...	...	...	...	...	...	9
Swedish	...	...	...	...	...	...	7
Greek	...	...	...	...	...	...	6
Latvian	...	...	...	...	...	...	16
Esthonian	...	...	...	...	...	...	6
Danish	...	...	...	...	...	...	3
American (U.S.A.)	...	...	...	...	...	...	1
Dutch	...	...	...	...	...	...	2
Italian	...	...	...	...	...	...	2
German	...	...	...	...	...	...	1
Polish	...	...	...	...	...	...	1
Chinese	...	...	...	...	...	...	1
Total	...	...	...	...	...	...	156

(10.)—ARRANGEMENTS FOR THE INTERMENT OF THE DEAD. There is a mortuary on the riverside. Arrangements for burial are carried out by the ships' Agents

Parrots (Prohibition of Import) Regulations.

There were 16 instances of parrots found on board vessels and in every case written undertakings were given that the birds would either be destroyed or not landed.

TABLE C.

CASES OF INFECTIOUS SICKNESS LANDED FROM VESSELS

Disease	No. of cases during 1938		No. of Vessels concerned	Average for previous five years
	Passengers	Crew		
Chicken-pox	—	4	1	1.6
Cerebro-spinal Meningitis ...	—	—	—	.2
Diphtheria	—	—	—	.4
Dysentery	—	—	—	.4
German Measles	—	—	—	.2
Influenza	—	1	1	.4
Measles	—	—	—	.8
Malaria	—	2*	1	1.0
Mumps	—	—	—	.8
Pneumonia	—	1	1	.4
Trachoma	—	—	—	.6
Tuberculosis	—	1	1	.6
Typhoid Fever	—	—	—	.4
Relapsing Fever	—	—	—	.2
Scarlet Fever	—	—	—	.6
Totals	—	9	5	7.7

*Suspected Cases = Treatment given on board.

PNEUMONIA.

S.S. "Defender" arrived at the port on January 17th. One of the crew had been landed at Suez suffering from pneumonia.

S.S. "Mashobra" arrived at the port on the 14th February from Calcutta via London and Antwerp. One of the crew who had been suffering from pneumonia died at sea.

S.S. "Dunbar Castle" arrived at the port on the 9th May from South Africa via London. Two of the passengers had suffered from pneumonia on the voyage.

S.S. "Bandar Shahpur" arrived at the port on the 21st November from the Persian Gulf via London. One of the crew had been removed to hospital at Avonmouth suffering from pneumonia and had died there.

S.S. "Matiana" arrived at the port on the 28th November from East Africa via Hull. One of the native crew had been landed at Hull suffering from pneumonia.

S.S. "Alferraredei" arrived at the port on 28th November from Lisbon. One of the crew was admitted to the Municipal Hospital suffering from pneumonia.

TUBERCULOSIS.

S.S. "Domala" arrived at the port on 13th April from Calcutta via London and Antwerp. One of the passengers had been suffering from tuberculosis and was treated on board.

S.S. "Manela" laid up at the port on 2nd May. One of the native crew admitted to the Municipal Hospital on the 28th June suffering from tuberculosis.

S.S. "Nalgora" arrived at the port on the 9th October from Bombay via London and Hull. One of the native crew had been landed at London suffering from tuberculosis.

S.S. "Madura" arrived at the port on the 1st November from South Africa via London and Antwerp. One of the passengers had been landed at London suffering from tuberculosis.

S.S. "Mathura" arrived at the port on the 29th December from Boston via London. One of the native crew had been landed at Boston suffering from tuberculosis.

ENTERIC FEVER.

S.S. "Malabar" arrived at the port on the 17th September from Glasgow. One of the native crew had been landed at Glasgow suffering from suspected enteric fever. No further cases occurred and the diagnosis was not confirmed as enteric fever.

WHOOPING COUGH.

S.S. "Mantola" arrived at the port on 19th April from East Africa via London. One of the passengers had been treated on board for Whooping Cough.

MUMPS.

S.S. "Mangalore" arrived at the port on 30th May from Calcutta via London and Liverpool. One of the native crew had been landed at London suffering from suspected mumps.

MALARIA.

S.S. "Llanstephan Castle" from South Africa via London arrived in the port on March 14th. It was reported that three members of the crew had suffered from malignant malaria and had died on the voyage.

S.S. "Madura" from Beira via London arrived at the port on July 6th. It was reported that the third engineer had suffered from malignant malaria and had died at Marseilles.

S.S. "Pacific" from Pepel arrived at the port on October 7th. Two of the crew had been suffering from malaria. They were kept under observation during the vessel's stay.

S.S. "Manipur" from Indian ports via Boulogne arrived at the port on the 14th November. One of the native crew had been landed at Aden suffering from Malaria.

S.S. "Collegian" arrived at the port on July 12th. One of native crew had been landed at Durban suffering from Malaria.

CHICKEN-POX.

S.S. "Mashobra" arrived at the port on the 14th February from Calcutta via London and Antwerp. Four native seamen were found to be suffering from chicken-pox. They were isolated and treated on board. Two had also been landed at London.

S.S. "Mantola" arrived at the port on 19th April from East Africa via London. Two of the passengers had suffered from chickenpox on the voyage.

S.S. "Umvoti" arrived at the port on May 13th from Mauritius via London. Two of the native crew had been landed at Cape Town suffering from chickenpox. Six others had been treated on board on the voyage and one was landed at London.

S.S. "Nalgora" arrived at the port on the 9th October. One of the native crew had been landed at London suffering from chickenpox.

DEATHS AT SEA.

There were eleven deaths at sea before arrival at this port.

S.S. "Durenda" arrived here on 12th January. One of the native crew had died at sea from a heart attack.

S.S. "Malakand" arrived here on the 14th January. One of the native crew died at sea from heart failure.

S.S. "Mashobra" arrived here on 14th February. A native seaman had died at sea from broncho-pneumonia.

S.S. "Tafna" arrived here on the 18th February. The third engineer had died at sea from a perforated duodenal ulcer.

S.S. "Llanstephan Castle" arrived here on 14th March. A passenger had died at sea from septicaemia.

S.S. "Dunluce Castle" arrived here on 11th April. A passenger had died at sea from nephritis.

S.S. "Dunbar Castle" arrived here on the 9th May. A passenger had died from heart disease.

S.S. "Gleniffer" arrived here on the 25th July. A Chinese seaman had died from heart failure.

S.S. "City of Exeter" arrived here on the 26th July. A passenger had died at sea from heart disease.

S.S. "Umtali" arrived here on the 31st October. A native seaman had died at sea from heart failure.

S.S. "Explorer" arrived here on the 25th October. A native seaman had died at sea from heart failure.

TABLE D.

CASES OF INFECTIOUS SICKNESS OCCURRING ON VESSELS DURING THE VOYAGE BUT
DISPOSED OF PRIOR TO ARRIVAL.

Disease	No. of cases during 1938		No. of vessels concerned	Average for previous five years
	Passengers	Crew		
Chicken-pox	—	12	5	4.2
Dysentery	—	—	—	2.4
Malaria	—	6	4	.4
Influenza	—	1	1	1.4
Measles	—	—	—	1.2
Pneumonia	2	4	5	.6
Scarlet Fever	1	—	1	—
Smallpox	—	—	—	.6
Typhoid Fever	—	1	1	2.2
Trachoma	—	—	—	.2
Tuberculosis	2	3	5	1.6
Erysipelas	—	—	—	.2
Mumps	—	1	1	.2
Whooping Cough	1	—	1	—
Total	6	28	24	15.2

***Return of Cases of Sickness or Injury found on Vessels entering
the Port.***

Abscess of tonsil	...	...	1
Anaemia ...	...	...	1
Accident ..	...	...	1
Appendicitis	...	...	4
Burns ...	...	...	2
Bronchitis	...	...	2
Bruises ...	...	...	1
Chickenpox	...	...	4
Dyspepsia	...	...	1
Enteritis	...	...	1
Fits ...	...	...	1
General debility...	...	...	1
Gastric trouble ...	...	...	1
Heart failure	...	...	1
Influenza	...	...	2
Injured knee	...	...	1
Injured foot	...	...	1
Malaria ...	...	...	2
Orchitis ...	...	...	1
Observation	...	...	3
Poisoned hand	...	...	1
Pneumonia	...	...	1
Rheumatism	...	...	4
Soft sore	...	...	1
Septic throat	...	...	1
Septic foot	...	...	1
Sore throat	...	...	1
Tuberculosis	...	...	1
Venereal Disease	...	...	14
Total ...			57

Of the above 47 were treated at hospital and at the clinic, one was sent to his home and 9 were treated on board.

***Return of cases of Sickness or Injury dealt with before arrival
at this Port.***

Accidents	...	...	...	5
Abscess on neck	...	...	...	1
Appendicitis	...	...	...	5
Bronchitis	...	...	...	1
Boils	...	...	...	1
Chickenpox	...	...	...	7
Carbuncle	...	...	...	2
Drowning	...	...	...	1
Duodenal Ulcer	...	...	...	1
Debility	...	...	...	1
Eye trouble	...	...	...	1
Enteric Fever	...	...	...	1
Fits	...	...	...	1
Food Poisoning	...	...	...	60
Gastric Ulcer	...	...	...	1
Goitre	...	...	...	1
Heart failure and heart disease				9
Haemorrhoids	...	...	...	1
Inflammation of chest	...	...	...	1
Influenza	...	...	...	2
Malignant Malaria	...	...	...	5
Mumps	...	...	...	1
Nephritis	...	...	...	1
Nervous Breakdown	...	...	...	1
Orchitis	...	...	...	1
Pneumonia	...	...	...	5
Poisoned Finger	...	...	...	1
Quinsy	...	...	...	1
Rheumatoid Arthritis	...	...	...	1
Scarlet Fever	...	...	...	1
Septicaemia	...	...	...	1
Septic Hand	...	...	...	1
Stomach Trouble	...	...	...	1
Tuberculosis	...	...	...	5
Venereal Disease	...	...	...	34
Whooping Cough	...	...	...	1
Total				164

90 of the above were dealt with at sea.

Ports at which the preceeding were dealt with

Aden	2	Colombo	2	Hamburg	1	Philadelphia	1
Antwerp	3	Cape Town	2	Leith	1	Port Said	5
Avonmouth	1	Dundee	2	Liverpool	2	Port Sudan	1
Bona	1	Durban	1	London	25	Suez	1
Boston	4	Falmouth	1	Marseilles	2	Stornaway	1
Brixham	1	Hull	4	New York	1	Ardrossan	1
						Glasgow	1

MEASURES AGAINST RODENTS.

All ships entering the Port are examined by the Rat Searcher, who is a whole-time Officer of the Port Health Authority. If necessary, orders for deratisation are served, this being carried out by fumigation. The ships are prepared for fumigation under the supervision of the Authority's Officers. The fumigation is carried out by well-known firms who specialise in this work. The fumigants used are :—

- (1.) Burning of Sulphur, 3 lbs. per 1,000 cu. ft. space, sealed for 6 to 8 hours.
- (2.) H.C.N. by the liquid method, sealed for 4 to 6 hours.
- (3.) H.C.N. by the Zyklon "B" method.
- (4.) Salfakose, $1\frac{1}{8}$ lbs. per 1,000 cu. ft., 6 hours sealed.

The Rat Searcher spends part of his time searching the wharves and quays and obtains specimens for bacteriological examination. The owners of the docks and wharves employ recognised rat catchers.

Rat guards are placed on hawsers mooring vessels to the wharves. Tarring of mooring ropes is also carried out in certain cases.

All rats, whether trapped or dead from fumigation, are examined for signs of disease and any found dead are sent for bacteriological examination.

No rats from ships or the shore were found infected with plague during the past year. There are very few warehouses on the docks and wharves on the River Tees and none have been erected in recent years. None of the existing buildings are strictly rat-proof.

A shed used by workmen on the riverside was found to be badly infested with rats. The wooden floor, under which the rats were nesting, was removed and replaced by a concrete floor.

A refuse tip was found to be encouraging rats in the neighbourhood of the Dock Point. Representation was made to the L.N.E.R. Co. and, as a result, the refuse tip was removed and replaced by a steel covered wagon. The wagon is removed and emptied regularly.

Owing to the prevalence of rats in the vicinity of the food warehouses at Tyne Tees wharf, a metal receptacle with an expanded metal cover has been constructed for the protection of a small quantity of ground rice which is regularly stored there for periods up to two or three weeks, and for which the rats appear to have a particular liking.

Rats Destroyed during the Year.

TABLE E.

(1) ON VESSELS.

[illegible]

In addition 147 Mice were caught and destroyed.

TABLE F.

(2) DOCKS, QUAYS, WHARVES AND WAREHOUSES.

[illegible]

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
13	—	—	—	—	—	—	13

The above consisted of iron ore carrying vessels from North African Ports. They were inspected and found to be free from rat infestation. Two of the vessels were issued with Deratisation Exemption Certificates.

TABLE H.

DERATISATION CERTIFICATES AND DERATISATION EXEMPTION CERTIFICATES ISSUED DURING THE YEAR.

NET TONNAGE.	No. of Ships.	No. of Deratisation Certificates issued.					Number of Deratisation Exemption Certificates issued.	Total Certificates issued.
		After Fumigation with			After Trapping, Poisoning, etc.	Total		
		H.C.N.	Sulphur	H.C.N. and Sulphur				
1	2	3	4	5	6	7	8	9
Ships up to 300 tons	43	—	4	—	—	4	39	43
from 301 tons to 1,000 tons	27	—	—	—	—	—	27	27
from 1,001 „ to 3,000 tons	70	—	4	—	—	4	66	70
from 3,001 „ to 10,000 tons	82	2	16	—	2	20	62	82
over 10,000 tons	—	—	—	—	—	—	—	—
Totals	222	2	24	—	2	28	194	222

VI. HYGIENE OF CREW'S 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 - -	2,270	2	34	33
OTHER NATIONS -	871	1	19	

GENERAL SANITARY SUPERVISION.

During the year, 70 informal or verbal notices dealing with 98 nuisances were served, all of which were complied with.

These related to :—

Verminous quarters ...	...	...	...	...	19
Dirty forecastles ...	...	...	...	...	8
Foul closets ...	...	...	...	...	9
Defective ports ...	...	...	...	...	11
Defective scuppers ...	...	...	...	...	2
Flooded forecastle ...	...	...	...	...	1
Leaky decks ...	...	...	...	...	8
Defective dead light ...	...	...	...	...	1
Dirty store room ...	...	...	...	...	1
Refuse on deck ...	...	...	...	...	1
Defective hawse pipes ...	...	...	...	...	2
Defective flush tank ...	...	...	...	...	1
No baffle on ventilator over bunk ...	...	...	...	...	1
Forecastles to paint out ...	...	...	...	...	6
Defective W.C.'s ...	...	...	...	...	1
Defective heating ...	...	...	...	...	1
Defective flush cocks ...	...	...	...	...	3
Stores stored in forecastle ...	...	...	...	...	2
Defective steam pipes ...	...	...	...	...	1
Defective soil pipes ...	...	...	...	...	2
Water lodging on tank top ...	...	...	...	...	1
Defective door locks ...	...	...	...	...	3
Defective flooring ...	...	...	...	...	1
Defective skylight ...	...	...	...	...	1
No food storage accommodation ...	...	...	...	...	1
Defective forecastle door ...	...	...	...	...	1
Defective bulkhead ...	...	...	...	...	1
Defective shower ...	...	...	...	...	1
Defective geyser ...	...	...	...	...	1
Defective deck light ...	...	...	...	...	1
Defective stove ...	...	...	...	...	1
Defective stove funnels ...	...	...	...	...	2
Dirty washplaces ...	...	...	...	...	2
Total ...	...	...	...	...	98

VERMINOUS VESSELS.

Jan.	18	S.S. "Sardinian Prince "	Fumigated with cyanide. All bunks and woodwork properly cleansed.
Feb.	2	S.S. "Mahout "	Forecastles treated with insecticide for cockroaches.
"	5	S.S. "Stronsa Firth "	Forecastles treated with insecticide.
"	21	S.S. "Godhem "	Forecastles treated with insecticide.
March	23	S.S. "City of Paris "	Forecastles treated with insecticide.
April	28	S.S. "Camaria "	Forecastles fumigated with sulphur gas.
"	29	S.S. "Consett "	Forecastles treated with insecticide.
"	29	S.S. "Elna "	Forecastles treated with insecticide.
May	3	S.S. "City of Nagpur "	Forecastles treated with insecticide.
"	13	S.S. "Batna "	Forecastles treated with insecticide.
July	13	S.S. "City of Cape Town "	Forecastles treated with insecticide for cockroaches.
Aug.	8	S.S. "Borga "	Forecastles treated with insecticide.
"	25	S.S. "Wallace Rose "	Forecastles treated with insecticides.
"	25	S.S. "Stanwood "	Fumigated with sulphur gas.
"	27	S.S. "Auretta "	Forecastles treated with insecticide for cockroaches.
Oct.	27	S.S. "Bronte "	Forecastles fumigated with sulphur gas and all woodwork thoroughly cleansed.
"	31	S.S. "Tolsta Head "	Forecastles treated with insecticide.
Nov.	19	S.S. "Lauriston "	Forecastles treated with insecticide.
"	21	S.S. "Benvenue "	Forecastles treated with insecticide for cockroaches.

Tonnage of Vessels Entering the Port.

(Kindly supplied by the General Manager of the River Tees Conservancy.)

Year ending Oct. 31st.	Number of Vessels	Registered Tonnage
1928	3,278	3,820,763
1929	3,529	4,075,385
1930	3,416	3,924,554
1931	2,961	3,100,254
1932	3,031	2,716,248
1933	3,148	2,964,054
1934	3,494	3,425,708
1935	3,611	3,582,909
1936	3,855	3,812,522
1937	4,222	4,082,260
1938	4,022	3,895,043

CASES OF ILLNESS OR INJURY ON BOARD VESSELS.

Reported or dealt with during the year 1938.

Date.	NAME OF VESSEL	Where from.	Nature of Illness.	Remarks.
Jan. 4	Rabe ... s.	Memel via London	Venereal disease ...	Landed at London.
„ 12	Durenda ... s.	Bombay via Hull	Heart attack ...	Died at sea.
„ „	Modasa ... s.	Calcutta via Dundee	Scarlet Fever ...	Landed at Marseilles.
„ 13	Crosshill ... s.	London	Drowned ...	Drowned in River Tees.
„ 13	Polo ... s.	Candia via Hull	Fits ...	Sent home.
„ 14	Malakand ... s.	Calcutta via Dundee ...	Inflammation of chest ...	Landed at Aden.
„ 14	„ „	„ „	Heart failure ...	Died at sea.
„ 14	„ „	„ „	Influenza ...	Landed at Dundee.
„ 17	Defender ... s.	Calcutta via Liverpool	Pneumonia ...	Landed at Suez.
„ 18	Sardinian Prince ... s.	R. Plate via Amsterdam	Appendicitis ...	Transferred to S.S. "Andalucia Star" at sea.
„ 27	Frank Seaman s.	Port Sulphen via Hull ...	Venereal disease ...	Sent home from Hull.
„ 27	Tuko ... s.	Coastwise ...	Appendicitis ...	Removed to N. O. H.
„ 28	Bhutan ... s.	Far East via Antwerp	Venereal disease (2)	Landed at Colombo.
Feb. 3	Aaro ... s.	Bilbao ...	Venereal disease ...	Referred to clinic.
„ 3	Kalix ... s.	Narvik ...	General debility ...	Removed to N. O. H.

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks.
Feb. 14	Mashobra ... s.	Calcutta via London & Antwerp ...	Chickenpox ...	Treated on board.
" 14	"	"	"	Two landed at London.
" 14	"	"	Broncho-pneumonia	Died at sea.
" 15	Behar ... s.	Far East via London & Antwerp ...	Venereal disease ...	Landed at London.
" 16	Mashobra ... s.	Antwerp ...	Chickenpox ...	Treated on board.
" 16	"	"	Septic throat ...	Suspected diphtheria. Removed to West Lane Hospital.
" 16	"	"	Chickenpox ...	Treated on board.
" 16	"	"	"	"
" 18	Tafna ... s.	Benisaf ...	Duodenal ulcer ...	Died at sea.
" 19	Kioto ... s.	Antwerp ...	Bronchitis ...	Landed at London.
" 19	"	"	Eye trouble ...	Landed at London.
" 22	Madura ... s.	Antwerp ...	Venereal disease ...	"
" 24	Glenogle ... m.	Antwerp ...	Injury ...	Landed at Antwerp.
Mar. 3	Grangemouth s.	"	Injury ...	Landed at Leith.
" 4	Maidan ... s.	Boston via Swansea ...	Carbuncle ...	Landed at Philadelphia.
" 8	Gleniffer s.	Antwerp ...	Poisoned finger ...	Landed at Antwerp.
" 14	Llanstephan Castle ... s.	London ...	Malignant malaria...	Died on voyage.
" 14	"	"	Septicaemia ...	"

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date.	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks
March 14	Llanstephan Castle ... s.	S. Africa via London ...	Food poisoning ...	60 cases occurred on voyage.
„ 17	Nautic ... s.	Algiers ...	Venereal disease ...	Referred to clinic.
„ 21	Halizones ... s.	E. Africa via Liverpool	Venereal disease ...	Treated on board and at clinic.
„ 21	Steinstad ... s.	Kirkness ...	Heart failure ...	Died on board, at Middlesbrough.
„ 24	Umtata ... s.	Hamburg ...	Venereal disease ...	Referred to clinic.
„ 25	Thala ... s.	La Goulette via Falmouth	Venereal disease ...	„
„ 25	Burdwan ... s.	Antwerp ...	Venereal disease ...	Landed at London.
„ 26	City of Singapore ... s.	Hamburg ...	Rheumatism ...	Admitted to M.H.
„ 31	Warfield ... s.	Bombay via Hull ...	Poisoned hand ...	Treated on board.
Apr. 4	Tribesman ... s.	Manchester	For observation ...	Landed at Manchester.
„ 7	Markhor ... s.	Avonmouth	Venereal disease ...	Referred to clinic.
„ 11	Dunluce Castle s.	S. Africa via London ...	Nephritis ...	Died at sea.
„ 13	Domala ... m.	Antwerp ...	Septic foot ...	Treated on board.
„ 13	„	„	Tuberculosis ...	Landed at London.
„ 19	Kaida ... s.	Delfzyl ...	Appendicitis ...	Admitted to hospital.
„ 19	Mantola ... s.	E. Africa via London ...	Chickenpox (2) ...	Treated on board on voyage.

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks.
April 19	Mantola s.	E. Africa via London ...	Whooping Cough ...	Treated on board.
" 19	"	"	Venereal disease ...	10 cases treated on voyage. 1 case admitted to M.H.
" 25	Sheaf Crest s.	Bona ...	Septic hand ...	Landed at Bona.
" 25	Minerva ... s.	La Falaises	Venereal disease ...	Admitted to M.H.
May 2	Glenaffaric ... s.	Antwerp ...	Venereal disease ...	Treated on board on voyage.
" 3	City of Nagpur s.	Hamburg ...	Enteritis ...	Admitted to M.H.
" 3	"	"	Orchitis and dysuria	Admitted to M.H.
" 9	Modasa ... s.	Antwerp ...	Venereal disease ...	Referred to clinic.
" 9	Modasa ... s.	"	Abscess on neck ...	Landed at Port Said.
" 9	Dunbar Castle M.	S. Africa via London ...	Heart disease ...	Died on voyage.
" 9	"	"	Pneumonia (2) ...	Treated on board on voyage.
" 9	"	"	Malignant malaria	Landed at Cape Town.
" 13	Umvoti ... s.	Mauritius via London ...	Chickenpox (2) ...	Landed at Cape Town.
" 13	"	"	" (6)	Treated on voyage.
" 13	"	"	"	Landed at London.
" 20	Pandia ... s.	Bona ...	Boils ...	Treated on board.
" 30	Mangalore ... s.	Liverpool ...	Venereal disease ...	Landed at Port Said.
" 30	"	"	Suspected Mumps	Landed at London.

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date.	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks
May 30	Umvoti ... s.	S. Africa via London ...	Gastric trouble ...	Admitted to M.H.
„ 31	City of London s.	S. Africa via Hull ...	Venereal disease ...	Admitted to M.H.
„ 31	„	„	Appendicitis ...	„
„ 31	„	„	Venereal disease ...	„
June 1	Mashobra ... s.	Calcutta via Antwerp	Bruises ...	Admitted to M.H.
„ 3	Gustaf E. Renters ... s.	Curacas via Ardrossan	Nervous breakdown	Landed at Ardrossan.
„ 8	City of Pretoria ... s.	Australia via Hamburg	Sore throat ...	Admitted to M.H.
„ 16	Polcirkeln ... s.	Narvik ...	Rheumatism ...	„
„ 20	Lahore ... s.	Calcutta via Hamburg	Venereal disease ...	Landed at London.
„ 28	Manela ... s.	Laid up at Middlesbro'	Tuberculosis ...	Admitted to M.H.
„ 29	Umvoti ... s.	„	For X-ray of oesophagus ...	Admitted to M.H.
„ 30	Curonia ... s.	Bona ...	Venereal disease ...	Referred to clinic.
July 4	Garth Castle s.	S. Africa via London ...	Venereal disease ...	Landed at London.
„ 6	Madura ... s.	Beira via London ...	Malignant malaria...	Died at Marseilles.
„ 6	Cara ... s.	Las Falaises	For observation ...	Admitted to N.O.H.

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks.
July 11	Pikepool ... s.	Melilla via Falmouth	Carbuncle ...	Landed at Falmouth.
„ 12	Collegian ... s.	S. Africa via Glasgow	Malaria ...	Landed at Durban.
„ 13	Sydney Star M.	Australia via Liverpool	Influenza ...	Admitted to M.H.
18	Maidan ... s.	Boston via London ...	For observation ...	Landed at Port Sudan.
„ 18	„	„	Goitre ...	Landed at New York.
„ 18	„	„	Venereal disease (3)	Landed at Boston.
„ 18	„	„	For observation ...	Admitted to M.H.
„ 21	Brika ... s.	La Goulette	Venereal disease ...	Referred to clinic.
„ 25	Gleniffer s.	Antwerp ...	Heart failure ...	Died on voyage.
„ 25	„	„	Gastric ulcer ...	„
„ 26	Astronomer s.	Madras via Manchester	Venereal disease ...	Landed at Port Said.
„ 26	City of Exeter s.	Hull ...	Heart disease ...	Died on voyage.
„ 26	Benmohr ... s.	F. East via Hamburg	Venereal disease ...	Landed at Port Said.
Aug. 2	Canwood ... s.	Bilbao via Brixham	Appendicitis ...	Landed at Brixham.
„ 8	Mahronda ... s.	Calcutta via Glasgow	Chronic Gastritis ...	Admitted to M.H.
„ 8	„	„	Rheumatoid Arthritis ...	Landed at Colombo.

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date.	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks
Aug. 11	Umtali ... s.	S. Africa via London ...	Bronchitis ...	Admitted to M.H.
" 11	"	S. Africa via London ...	Dyspepsia ...	Admitted to M.H.
" 19	Durenda ... m.	Bombay via Hull ...	Venereal disease ...	Referred to clinic.
" 22	Radnorshire s.	F. East via Antwerp	Abscess of tonsil ...	Admitted to M.H.
Sept. 9	Umgeni ... s.	S. Africa via London ...	Orchitis ...	Landed at London.
" 10	Mickleton ... s.	Coastwise ...	Injured finger ...	Landed at Stornoway.
" 12	Ausma ... s.	Rotterdam	Weakness and Anaemia ...	Treated on board.
" 12	Clan Macpherson s.	Negapatam via London	Heart trouble ...	Landed at London.
" 17	Malaber ... s.	Glasgow ...	Enteric fever ...	Landed at Glasgow.
" 22	Malancha ... s.	Boston via Avonmouth	Debility ...	Landed at London.
" 26	Siauliai ... s.	Memel via Antwerp	Appendicitis ...	Removed to M.H.
Oct. 6	Grangemouth s.	Antwerp ...	Accident ...	Died and body brought here from Antwerp.
" 7	Pacific ... s.	Pepel ...	Malaria (2) ...	Treated on board.
" 9	Nalgora ... s.	Bombay via Hull ...	Chickenpox ...	Landed at London.
" 9	"	"	Tuberculosis	"
" 9	"	"	Soft sore ...	Admitted to M.H.

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks.
Oct. 11	Australia Star	s. Australia via Liverpool	Appendicitis ...	Landed at Liverpool.
„ 21	Lahore	... s. Antwerp ...	Burns of feet ...	Admitted to M.H.
„ 22	Umvoti	... s. Hamburg ...	Quinsy ...	Landed at Hull.
„ 22	„	„	Tuberculosis ...	Landed at London.
„ 22	„	„	Haemorrhoids ...	„
„ 25	Explorer	... s. Mauritius via London ...	Heart failure ...	Died at sea.
„ 25	„	„	Venereal disease ...	Landed at London.
„ 31	Umtali	... s. S. Africa via Hamburg	Heart failure ...	Died at sea.
Nov. 1	Madura	... s. Antwerp ...	Tuberculosis ...	Landed at London.
„ 7	Benledi	... s. F. East via Rosyth ...	Burns ...	Removed to N.O.H.
„ 14	Manipur	... s. Boulogne ...	Malaria ...	Landed at Aden.
„ 21	Bandar Shahpur	... s. Persian Gulf via London	Pneumonia ...	Landed at Avonmouth.
„ 22	Benwyvis	... s. Saigon via Dunkirk ...	Rheumatism ...	Admitted to M.H.
„ 28	Matiana	... s. E. Africa via Hull ...	Pneumonia ...	Landed at Hull.
„ 28	Alferraredei	s. Lisbon ...	Pneumonia ...	Admitted to M.H.
„ 30	Clermiston	... s. Aabenraa ...	Injured knee ...	Admitted to N.R.I.
Dec. 1	Port Hunter	s. N. Zealand via Tyne ...	Appendicitis ...	Operation at sea.

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CASES OF ILLNESS ON BOARD VESSELS.—Continued

Date.	NAME OF VESSEL.	Where from.	Nature of Illness.	Remarks.
Dec. 2	Soudan ... s.	F. East via Antwerp	Venereal disease ...	Landed at London.
„ 2	Durenda ... m.	Bombay via Hull ...	Appendicitis ...	Landed at Hull.
„ 2	Matiana ... s.	E. Africa via Hull ...	Bronchitis ...	Admitted to M.H.
„ 5	Bengloe ... s.	F. East via Leith ...	Stomach trouble ...	Landed at Hamburg.
„ 5	Glengarry ... m.	F. East via Antwerp	For observation ...	Landed at London.
„ 6	Collegian ... s.	S. Africa via Liverpool	Venereal disease ...	Landed at Liverpool.
„ 12	Christian B. ... s.	Danzig ...	Venereal disease ...	Recommended to clinic.
„ 12	Cavallo ... s.	Hull ...	Venereal disease ...	Landed at London.
„ 14	Nirpura ... s.	Calcutta via Antwerp	Venereal disease ...	Landed at Port Said.
„ 14	„	„	Venereal disease ...	Landed at Dundee.
„ 14	„	„	Injured foot ...	Treated on board.
„ 19	City of Edinburgh ... s.	Hamburg ...	Venereal disease (2)	Landed at London.
„ 28	Llangibby Castle ... s.	Cape Town via London	Influenza ...	Treated on board.
„ 28	Batna ... s.	Bona via Gibraltar ...	Accident ...	Removed to N.O.H.
„ 28	Sphene ... s.	Ghent ...	Rheumatism ...	Removed to N.O.H.
„ 29	Mathura ... s.	Boston via London and Tyne ...	Tuberculosis ...	Landed at Boston.
„ 29	„	„	Venereal Disease ...	Landed at London.

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FOOD INSPECTION.

Consignments of food arrive each week.

From LONDON. Groceries, tinned goods, margarine, fruit, bacon, sugar, tea, confectionery and preserves.

„ ROTTERDAM. Tinned milk, bacon, vegetables, eggs, margarine, butter, fruit, ground rice and fruit pulp.

„ ANTWERP. Fresh vegetables.

„ HULL. Wheat.

„ SINGAPORE. Small parcels of pineapples, desiccated coconut and sago flour.

These have all been systematically inspected and were found to be in good sound condition, with the exception of 20 bags of carrots and 26 tins of pineapple which were found to be unsound and were destroyed.

Samples of desiccated coconut, ground rice and fruit pulp were taken. All were of genuine quality and in the case of the fruit pulp the preservatives contained were well within the prescribed limits.

In November, 1938, a visit was paid by a Medical Officer of the Food and Drugs Department of the Ministry of Health. Full investigation was made concerning the inspection and sampling of imported foodstuffs at this Port.

SHELLFISH REGULATIONS.

In 1932, the River Tees Port Health Authority passed regulations under the Public Health Act, 1896, prohibiting the sale or offering for sale of any mussels, cockles, periwinkles or other shellfish taken from within the district unless and until such shellfish shall have been relaid for such a period as may be directed.

There are no beds laid in the Tees Estuary. The River Police keep the collecting of shellfish from the banks of the river under observation, but it is difficult to prevent sundry persons collecting these or to prove that they are intended for human consumption.

There has not been any outbreak of enteric fever traceable to the eating of contaminated shellfish during the past year.

STEAM LAUNCH "MERCIE".

This vessel, owned by the Port Health Authority, is employed for inspection work on the river and enables the Medical Officer and other inspecting officials to visit any ships lying between Gray's Yard at Graythorpe and the stone bridge at Stockton, a distance of 12 miles.

The launch has been in the service of the Authority for 25 years, replacing the old launch "Osprey" in 1914. Owing to the constant and increasing number of defects to the engine, boiler and hull, the Board is considering the advisability of replacing the launch by a new one.

I wish to record my grateful thanks to the Chairman and Members of the Port Health Authority for their valued co-operation and guidance during the year 1938, and to the Chief Preventive Officer of Customs and his staff, the Harbour Master and his Assistant and the Pilot Master and Pilots for their ready assistance at all times.

I desire also to express my gratitude to my colleagues on the staff of the Authority for much advice and loyal assistance.

I have the honour to be,

Your obedient servant,

CHARLES METCALFE BROWN,
PORT MEDICAL OFFICER.

