#### [Report of the Medical Officer of Health for Port of London].

#### **Contributors**

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69.

## PORT OF LONDON SANITARY COMMITTEE.

## ANNUAL REPORT

OF THE

## MEDICAL OFFICER OF HEALTH,

То 31 вт Dесемвек, 1913.



Presented 7th May, 1914.



SHIPPING TAATIFAS KONTOL TO THE

ANNUAL REPORT

HATTORD WE REPORTED AROUND

## REPORT,

FOR THE YEAR ENDED 31ST DECEMBER, 1913,

OF THE

## MEDICAL OFFICER OF HEALTH

FOR THE

## PORT OF LONDON.

BY

HERBERT WILLIAMS, M.D., M.D. (State Medicine), London University, M.R.C.S.Eng., L.R.C.P.Lond., D.P.H.Camb.,

MEDICAL OFFICER OF HEALTH, PORT OF LONDON,
MEDICAL INSPECTOR FOR PURPOSES OF THE ALIENS ACT, 1905, PORT OF LONDON,
LECTURER ON PORT HYGIENE, LONDON SCHOOL OF TROPICAL MEDICINE,
FELLOW AND MEMBER OF COUNCIL, ROYAL SANITARY INSTITUTE,
FELLOW OF THE INCORPORATED SOCIETY OF MEDICAL OFFICERS OF HEALTH,
FELLOW OF THE BOYAL GEOGRAPHICAL SOCIETY.

LONDON:

PRINTED BY CHARLES SKIPPER & EAST, 49, GREAT TOWER STREET, E.C.

1914.



## BOWATER, Mayor.

# A Common Council holden in the Chamber of the Guildhall of the City of London, on Thursday, the 7th day of May, 1914.

THE Port of London Sanitary Committee did this day deliver into this Court a Report in writing under their hands, of their proceedings, and submitting the Annual Report of the Medical Officer of Health of the Port to the 31st December, 1913; which was read.

And a Motion being made and Question put, That this Court doth agree with the Committee in their said Report, the same was resolved in the Affirmative.

ORDERED, That the Report be printed, and a copy sent to every Member of this Court.

BELL.

To the Right Honourable the Lord Mayor, Aldermen and Commons of the City of London, in Common Council assembled.

WE, whose names are hereunto subscribed, of your Port of London Sanitary Committee, to whom it has been referred to carry into execution the powers assigned to the Corporation, as the Port of London Sanitary Authority by the Local Government Board, under the Public Health (London) Act, 1891, beg to submit for the information of your Honourable Court the Annual Report of Dr. Herbert Williams, the Medical Officer of Health for the Port of London, for the year ended the 31st December, 1913, which Report contains a full and detailed account of the work done in the Port during that period by the Medical Officers and Inspectors.

Your Committee have had under consideration the subject of existing safeguards for the protection of this country from the introduction of Small-pox. It is a fact that there is in this country a large and increasing number of persons unprotected by vaccination, or revaccination, and in the view of your Committee, powers should be given to the Port Sanitary Authorities to visit and inspect all persons on board ships arriving from ports at which Small-pox is known or suspected to exist, and situated within 14 days steaming of ports in this country—with powers and penalties similar to those at present in existence under the Orders of the Local Government Board, relating to Plague, Yellow Fever and Cholera.

Your Committee made representations accordingly to the Local Government Board, but the Board did not consider, on the evidence adduced, that the suggested course would be justified. This is a matter for regret, as at present a loophole undoubtedly exists by which Small-pox may be introduced into this country. During the year, 19 cases were reported on vessels arriving, and 9 cases were removed to and treated in the Port Sanitary Hospital.

The question of Plague amongst rats in the docks has continued to receive the serious attention of your Committee, and a conference took place at the Local Government Board between the representatives of the Board, the Port of London Authority, and the Port Sanitary Authority, when suggestions were made for the better protection of premises in the docks from invasion by rats, and for other precautionary measures in connection therewith. Some interesting particulars were given of the measures taken in San Francisco, with the cost of the same in dealing with an epidemic of Plague, and the Medical Officer of Health pointed out the serious interference with the trade of London should human Plague cases occur in London.

During the year, no less than 4,125 rats were examined on behalf of your Committee, for evidence of plague bacillus, and 7 rats were found to be "infected."

The total number of cases of infectious disease reported and dealt with during the year is much larger than usual, due to the notification of cases of tuberculosis under the new Regulations—no less than 158 cases of tuberculosis of all kinds having been notified during the year.

An outbreak of scarlet fever occurred on one of the Training Ships in the River in September. Although 27 cases of the disease occurred, the outbreak did not assume the character of an epidemic.

The sanitary condition of the crews' quarters on ships continues to receive careful attention, and in the Medical Officer's Report comparisons have been drawn between the existing provisions of the Merchant Shipping Act and projected regulations on this subject by the Commonwealth Government of Australia and by the Norwegian Government.

The subject of deaths of seamen from disease as shown by returns furnished by the Registrar-General of Shipping and Seamen to the Board of Trade, is also dealt with, and attention is drawn to the large proportion of deaths from diseases of the respiratory system among this class of men.

The inspection of food is imposing upon your officers an increasing amount of work and responsibility, the substance of which is set out in various tables attached to this Report. The total approximate weight of goods destroyed during the year was not less than 2,458 tons. In connection with this subject, the examination of various animal carcases and parts, from abroad, for the detection of the presence of lesions due to disease or parasites, has occupied a great deal of attention, and actinomycosis in ox-tongues has been the subject of careful consideration, and has been jointly reported upon by the Medical Officers of Health of the City and of the Port, to your Honourable Court. A fresh duty has arisen by the examination and certification of meat exported to certain foreign countries.

Information is also given in the Report on the subject of the night population in the Port of London as shown by the Census of 1911. Of the steam launches, the two larger ones are continuing to work satisfactorily. The "Denton" has been disposed of, and a motor launch has been built for work in the upper reaches of the river where the shallow draught and increased speed of this type of vessel makes for greater efficiency.

Your Committee have to report with regret the loss by death in November, after a long illness, of Inspector W. G. Romeril, who at the time of his death occupied the position of senior Sanitary Inspector.

The Annual Report on Canal Boats required by the Canal Boats Act is appended to this Report.

In accordance with the Order of your Honourable Court, an account of Receipts and Expenditure in connection with the Port of London Sanitary Authority for the year ended the 31st December last, is appended for the information of the Court.

All which we submit to the judgment of this Honourable Court. Dated this fifth day of May, 1914.

EDWARD HUGHES.
T. ROBINSON.
WALTER H. KEY.
S. DAVID COATES.
F. M. STAFFORD.
STEPHEN H. M. KILLIR.

A. Jerrold-Nathan.
George Briggs.
H. Percy Monckton.
H. M. Gaydon.
James Wann.
A. C. Stanley Stone.
J. W. Beningfield.
Edward Ansted.
W. Fortescue.

#### OFFICES

## Port of London Sanitary Authority

AND

## Medical Officer of Health

### 51, KING WILLIAM STREET,

GREENWICH, S.E.

TELEGRAPHIC ADDRESS - "MEDOFF, GREEN," LONDON.

TELEPHONE No. - - NEW CROSS 36.

#### BOARDING STATIONS.

RIVER THAMES - - HULK "HYGEIA," GRAVESEND.

RIVER MEDWAY - - GARRISON POINT, SHEERNESS.

#### HOSPITAL FOR INFECTIOUS DISEASES

#### DENTON, NEAR GRAVESEND.

TELEPHONE No. (HOSPITAL) - - - GRAVESEND 957. Ditto (MEDICAL OFFICER IN CHARGE) ,,

## PORT OF LONDON SANITARY COMMITTEE.

George Briggs, Esq. (Chairman), Cripplegate Within.

#### ALDERMEN.

Sir Walter Wilkin, K.C.M.G. Sir John Pound, Bart. Sir William Purdie Treloar, Bart. Sir William Henry Dunn, Knt.

Sir T. VANSITTART BOWATER, Knt. Sir Charles Cheers Wakefield, Knt.

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Mr. Edward Ansted		 ****		Billingsgate.
Mr. Thomas Robinson		 	)	
Mr. ARTHUR CARLYON STANLEY STONE		 	}	Bishopsgate.
Major Charles Clement Hodges		 		Bread Street.
Mr. SAMUEL BEAL		 		Bridge.
Mr. STEPHEN HENRY MOLYNEUX KILLI	к	 		Broad Street.
Mr. George Everest Ellis		 		Candlewick.
Mr. James Wann		 		Castle Baynard.
Col. John William Beningfield		 		Cheap.
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Mr. Alfred Jerrold-Nathan		 		S.S. Farringdon Without.
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WILLIAM WALTER GREEN Esq., J.P.		 		Tower.
Col. Vickers Dunfee		 		Vintry.
Mr. H. PERCY MONCRTON		 		Walbrook.

Corporation Representatives on the Port of London Authority and Thames Conservancy Board (ex-officio Members of the Committee) :-

> Mr. John Robert Pakeman (late Chairman). Mr. James William Domoney, L.C.C. SPENCER WILLIAM MORRIS, Esq. Mr. HORACE SPENCER DOVE.

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## STAFF.

List of Officers forming the Staff of the Port of London Sanitary Authority, 31st December, 1913.

MEDICAL OFFICER OF HEALTH	D.P.H, M.D., May, 190 D., C.M. April, 19	01.
### ASSISTANT MEDICAL OFFICERS—    GRAVESEND	D., C.M. April, 19	
W. M. Willoughby, B.A	D., C.M. April, 19	
GREENWICH OFFICES—  Clerk		01.
W.R.Betenson, M.R.C.S., I   Lond., D.P.H. Lond.	ala:	003.
A. Kidd, M.R.C.S., L. Lond., D.P.H.  E. V. Legge, M.A., M.D.  B.A.O., L.M.Dublin.  Clerk W. J. Albrow E. A. Sorrell		07
Lond., D.P.H.	R.C.P., 1909.	
GREENWICH OFFICES—  Clerk W. J. Albrow E. A. Sorrell		
Clerk W. J. Albrow E. A. Sorrell	., D.C., 1900.	
1st Assistant E. A. Sorrell	March, 1	1890
	October,	
2nd ditto W. C. Barham	June, 19	
Junior ditto J. G. Godden	July, 191	10.
Ditto T. J. S. Cotterell -	July, 191	10.
Caretaker F. Hudgell	Novembe	r, 1906.
FOOD INSPECTORS "H. Spadaccini, Cert.R.San		
*W. Anderson, Cert.R.San *T. W. Bailey, Cert.R.San		
SANITARY INSPECTORS A. Garland, Cert.R.San.In	n.Inst August,	1898.
*W. W. Burr, Cert.R.San. *H. R. Hopkins, Cert.R.Sa *P. R. Lambe, Cert.R.San. *J. H. Rolfe, Cert.R.San.I	in.Inst February Inst January,	, 1899.
*W. Elward, Cert.R.San.In  F. J. Massie, Cert.R.San.In C. A. Shepherd, Cert.R.S	nst March, 1 Inst March, 1 San.Inst. January,	1909.
DENTON HOSPITAL— (Vacant)		
Medical Officer W. M. Willoughby, B.A B.C., D.P.H. Camb.	., M.D., Novembe	r, 1908.
Nurse Matron J. Jackson	February	, 1910.
Assistant Nurse A. A. Foggo	Septembe	er, 1912.
Ditto L. Harding	September	
Ditto A. Densham Cook E. Hutson	Novembe	
Maidservant E. Hutson F. Ambrose	October,	
( W I Wmm	- Novembe	
M. E. Wragg	Novembe	
STEAM LAUNCHES— "LADY TRUSCOTT"—	709	
Master W. Jarvis	April, 19	11.
Engineer J. A. Hardman	December	
Mate C. Boyd	July, 190	
Stoker A. E. Howard	February	, 1912.
Master C. H. Price	October,	1918
Engineer G. H. Bagshaw	July, 189	
Deckhand J. Baulsom	March, 1	913.
Stoker C. Wilcox	December	
"CLOTHO" (Reserve).		
"George Briggs"—Motor Launch— Master C. Strange	October,	1918
Engineer J. Steen	- Ditto	
GREENWICH MOORINGS-		
FUMIGATING BARGE "THOMAS"—		
Stoker, &c W. H. Buzzel	February	, 1912.
BARGE "COLLINGWOOD"— Watchmen W. H. Buzzel	February	1919
Watcomen W. H. Buzzel H. A. Clarkson	February May, 191	
GRAVESEND-	20, 10,	
HULK "HYGEIA"—		200
Shipkeeper I. Rogers A. Salter	April, 18	
A. Saiter	July, 18	

<sup>\*</sup> These Inspectors possess the Special Certificate of the Royal Sanitary Institute for Inspectors of Food.

## PORT OF LONDON SANITARY OFFICES, 51, KING WILLIAM STREET, GREENWICH, S.E.

## TO THE WORSHIPFUL THE PORT OF LONDON SANITARY COMMITTEE.

GENTLEMEN.

I have the honour to present herewith my Annual Report for the year 1913, being the twelfth of the series.

The total number of vessels arriving in the Port of London, from "foreign" during the year, was 9,727 at Gravesend, and 324 at Sheerness, the average for the past ten years being 9,679.2 at Gravesend, and 331.9 at Sheerness.

It is the largest number so arriving at Gravesend since the year 1906.

Of the total arrivals, 1,948 were medically inspected at Gravesend, and 268 at Sheerness.

The details of these figures are given in Tables I and II.

In Tables III and IV will be found some figures relative to Alien Immigration but these figures are subject to revision on publication of the complete official returns by the Home Office.

Infectious Disease is dealt with in Tables V to XXV, with details of the cases which exhibited points of public interest.

Food Inspection is now well established as an important section of the work, and in the section of this Report in which this is specially dealt with, full particulars will be found of the work done and the quantities of material dealt with.

The details of sanitary inspection are summarised in Tables XXXIV to XXXVII, and this section of the work has been well and efficiently maintained, notwithstanding the strain at times put upon these officers by the exigencies of food inspection.

The working of the Canal Boats Acts is dealt with in the usual special annual report on this subject, which is appended to this Report.

In relation to the Census of 1911, I have been able to extract some figures dealing with the population of the Port as expressed by the number of persons enumerated as residing within the Port on vessels, &c., at the time of taking the Census. Although, this population is personally a changing one, it is shown to be remarkably constant as to numbers.

A few general remarks on the Staff will be found on page 82.

The Authority has suffered the loss, by death, during the year, of their senior Sanitary Inspector, W. G. Romeril. His loss is a matter for regret, as he was an intelligent, loyal, reliable and capable officer, and had been in the service since 1892.

#### MEDICAL INSPECTION.

The total number of vessels arriving at Gravesend from foreign ports was 9,727, the greatest number since 1906, the average for the past ten years being 9,679. Of these 1,948, an average of 5.6 per day, required medical inspection as coming from "infected" ports. At Sheerness, of 324 arrivals from foreign, 268 were medically inspected. The total number of cases of infectious disease reported on vessels was 447, including 151 cases of pulmonary tuberculosis. Of the cases reported, 91 or 20.3 per cent. were removed to the Port Sanitary Hospital for treatment. Short notes of these cases appear under the headings of infectious disease.

#### SHEERNESS BOARDING STATION.

Dr. Legge is the only officer of the Authority residing at Sheerness, and was originally appointed for the duty of boarding and inspecting vessels arriving from foreign. The majority of these vessels are bound for the port of Rochester, but as the entrance to that port is through the Port of London, the onus of such inspection rests upon the Port of London Sanitary Authority, and the Port of Rochester Authority contributes annually a sum of 100l. towards the expenses of such inspection and the maintenance and treatment in hospital of any persons found on vessels bound for the Port of Rochester suffering from a dangerous infectious disorder, who would be removed at Sheerness and conveyed to the Port of London Sanitary Hospital at Denton. Dr. Legge is therefore constantly on duty, and no arrangements have been made for his occasional relief; he is liable to be called out at any hour of the day or night on week days, Sundays, and on holidays, whilst he has had to be in attendance at Queenborough on at least four nights a week from 6-10 p.m. examining meat. As it was found necessary to make arrangements for the examination of meat on every night in the week, and it was not possible to ask for this service from Dr. Legge, arrangements have been made for him to be relieved on two nights during the week by one of the assistant Medical Officers from Gravesend, whilst Dr. Legge is responsible for the examination on the other five nights.

Under the heading of Food Inspection, some details are given of the results of this work at Sheerness. (Page 44.)

It is now in contemplation to put into force at Queenborough, the examination of Alien Immigrants, which will mean additional work for Dr. Legge and the Assistant Medical Officers.

TABLE I.

MEDICAL INSPECTION—GRAVESEND. From 1st January to 31st December, 1913

in The land	Jan.	Feb.	March	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Total.
Number of foreign arrivals	774	694	800	794	827	879	856	813	809	866	805	810	9,727
Number medically inspected	159	155	180	169	172	181	159	164	153	151	152	153	1,948
Number of passengers	1,588	791	2,183	1,817	1,763	1,460	1,059	822	856	289	376	352	13,356
Number of crew	3,379	3,569	4,561	4,889	3,792	4,143	3,416	3,776	4,019	2,825	3,764	3,886	46,019
MS (1)	e	101	COMP	'ARA'	TIVE	TABI	LE.		sta	271	r ah	B -	dul
GRAVESEND.	1904.	1905.	1906.	1907	. 190	8. 190	09. 19	910. 1	911.	1912.	Mean a number 10 years 31st Dec 191	for the ending cember,	1913.
Number of foreign arrivals	10,030	9,96	2 9,95	5 9,63	39 9,5	59 9,	571 9,	699 9	,543	9,107	9,67	9.2	9,727
Number of vessels medically inspected	2,559	2,81	3 2,85	3 2,70	00 2,8	40 2,	248 2,	756 2	,744	2,366	2,58	2.7	1,948
Total number medicall From August, ,, 1st Janu MEDICAL INSPI	1892, t	o Dec	ember, Decemb	1912 er, 19	 13 LE I		Janu	Total		Decem	. 9	,412 ,727 ,139	
From August, ,, 1st Janu	1892, t	o Dec	ember, Decemb	TAB NESS	 13 LE I	I.			d		. 9	,727	Total.
From August, ,, 1st Janu MEDICAL INSPI	1892, tary to	o Dece 31st I	ember, Decemb	TAB NESS	 13 LE I	I. om 1st	Janu	ary to	31st	Decem	55 ber, 1	,727 ,139 913.	Total.
From August, ,, 1st Janu MEDICAL INSPI	1892, tary to	N—S.	ember, Decemb	TAB ENESS	LE I	I. June	Janu July	ary to	31st	Decem Oct.	. 9 55 aber, 1 Nov.	,727 ,139 913.	
From August, ,, 1st Janu  MEDICAL INSPI  Number of foreign arrivals  Number medically inspected	1892, tary to	N—S.	HEER March	TAB NESS April	LE I  . From May	I. June 50	July 40	Aug.	31st Sept.	Decem	. 9 . 55 aber, 1 Nov.	,727 ,139 913. Dec.	324
From August, ,, 1st Janu  MEDICAL INSPI  Number of foreign arrivals  Number medically inspected  Number of passengers	1892, tary to  ECTIO  Jan.  12  10  —	N—S.	HEER March 21	1912 er, 19 TAB NESS April 28	LE I  . From May 28 21	June 50 45	July 40 37	Aug.	31st Sept. 33	Decem	. 9 . 55 aber, 1 Nov. 26 21	,727 ,139 913. Dec.	324
MEDICAL INSPI  Number of foreign arrivals  Number medically inspected  Number of passengers	1892, tary to  CCTIO  Jan.  12  10	N—S. Feb.  14	HEER March 21 16 208	1912 er, 19 TAB NESS April 28 18	LE I  May  28  21  5  327	June 50 45 10 636	July 40 37 20 530	Aug. 23 21	31st Sept. 33 27 5	Oct. 26 22	. 9 . 55 aber, 1 Nov. 26 21	913.  Dec. 23 16	324 268 54
Number of passengers	1892, tary to  CCTIO  Jan.  12  10	N—S. Feb.  14	HEER March 21 16 - 208	1912 er, 19 TAB NESS April 28 18 5 312	LE I  . From May  28  21  5  327	June 50 45 10 636 TAB	Janu July 40 37 20 530	Aug. 23 21 6 299	31st Sept. 33 27 5	Oct. 26 22	. 9 . 55 . 55 . Nov. 26 . 21 . 3 . 376 . Mean number 10 years 31st De	913.  Dec. 23 16	324 268 54 4,091
MEDICAL INSPI  Number of foreign arrivals  Number of passengers  Number of crew	1892, tary to  ECTIO  Jan.  12  10  —  145	N—S. Feb.  14  197	HEER March 21 16 - 208 COM	1912 er, 19 TAB NESS April 28 18 5 312 PARA	13 LE I 3. From May 28 21 5 327 TIVE	June 50 45 10 636 TAB	Janu July 40 37 20 530 LE.	Aug. 23 21 6 299	31st Sept. 33 27 5 488	Decem Oct. 26 22 — 334	. 9 . 55 . 55 . Nov. 26 . 21 . 3 . 376 . Mean number 10 years 31st De 19	913.  Dec.  23  16  239  annual for the s ending seember,	324 268 54 4,091

Total ... ...

5,628

#### ALIENS ACT, 1905.

The following figures are extracted from the quarterly Parliamentary returns, and are subject to correction when the complete returns are published:—

#### TABLE III.

#### ALIEN PASSENGERS.

#### LONDON.

		Total,	Cabin,	Exempt 2nd Class Passengers,	Trans- migrants,	Other alien pas- sengers.	Proceeding to destinations out- side the United Kingdom,	Holiday return tickets.	Seamen,	Refused leave to land,	Residents returning.	Balance,	Totals,
January	-	2,726	1,080	485	457	704	64	46	149	15	88	342	704
February	-	2,337	810	377	518	637	27	30	116	8	48	408	637
March	-	3,734	1,272	628	984	850	60	84	160	20	64	462	850
April	-	4,063	1,527	650	1,230	656	74	49	112	9	38	374	656
May-	-	3,874	1,672	658	748	796	101	38	99	40	97	421	796
June-	_	4,866	2,087	765	1,132	882	126	61	115	38	64	478	882
July -	-	6,152	3,074	1,125	758	1,200	273	152	55	32	134	554	1,200
August	-	6,417	3,063	1,217	721	1,416	204	229	144	50	334	455	1,416
September	-	5,166	2,158	1,000	748	1,260	103	97	116	79	192	673	1,260
October	-	3,289	1,544	675	390	680	71	39	80	7	83	400	680
November	-	2,910	1,069	493	601	747	48	15	152	8	49	475	747
December	-	2,480	937	441	463	639	50	49	70	15	47	408	639
		48,014	20,293	8,514	8,740	10,467	1,201	889	1,368	321	1,238	5,450	10,467
	-	-					2001		-	-			-

#### ALL PORTS.

12 months 546,452 217,445 111,186 153,684 64,187 8,010 11,135 12,630 1,317 8,313 22,782 64,187

TABLE IV.

ARRIVALS IN THE PORT OF LONDON.

					SHIPS.		ALIE	PASSEN	GERS ON
				Non- Immigrant.	Immigrant	Total.	Non-Immi- grant Ships.	Immigrant Ships.	Total.
January	TEN.	1	-	138	18	156	1,863	863	2,726
February	-	-	-	122	14	136	1,543	794	2,337
March	-	-	-	125	30	155	1,684	2,050	3,734
April -	-	-	-	134	29	163	1,792	2,271	4,063
May -	-	300	-	143	28	171	1,869	2,005	3,874
June -	-	-	-	155	35	190	1,878	2,988	4,866
July -	-	-	-	166	55	221	1,909	4,243	6,152
August	-	-	-	165	61	226	1,470	4,947	6,417
September	-	-	-	130	56	186	1,153	4,013	5,166
October	1280	2	-	180	20	200	2,010	1,279	3,289
November	-	-	-	160	13	173	2,028	882	2,910
December	-	-	4-9	133	12	145	1,734	746	2,480
				1,751	371	2,122	20,933	27,081	48,014
	Ot	her P	orts	7,865	3,862	11,727	131,663	366,775	498,438
		Total	-	9,616	4,233	13,849	152,596	393,856	546,452
				-	510	I mdmis	other is on w	tannat Jul	-
					Londo	N.			
Percentage	of '	Total	1913	18.20	8.76	15.32	13.69	6.90	8.96
Do	).		1912	17.90	8.10	14.98	13.44	6.67	8.80

#### INFECTIOUS DISEASE.

In Tables V. to XXV. will be found the history of the various cases of Infectious Disease reported and dealt with during the year. It will be noticed that the total—447, is largely in excess of the average for the past 10 years, and it will also be seen that this is due to the notification of cases of Tuberculosis under the new Regulations. A larger number than is usual of cases of Cholera and Yellow Fever in homeward bound ships was reported, but no case of these diseases was present in any vessel on arrival. Of 19 cases of Small-pox reported, nine were removed to the Port Sanitary Hospital, and of the 65 cases of Enteric Fever notified, 29 were removed to the same hospital.

The total number of notifications made of the addresses of passengers and crews having arrived on vessels having had cases of certain Infectious Diseases, including Small-pox on board, was 439, while the number of vessels, &c., disinfected was 131. and 74 lots of personal and other effects were disinfected by the steam apparatus.

#### TABLE V.—INFECTIOUS DISEASE.

DISEASE,	to you	1904.	1905.	1906.	1907.	1908.	1909,	1910.	1911.	1912.	Mean annual number for 10 years ending 31st December. 1913.	1913.
(a) Cases reported : Cholera (including suspect		4	6	3	9	5	3	5	9	2	6.5	19
Yellow Fever (ditto)			1	2		2					0.9	4
Plague (ditto)		6	9	9	4	1	4	6	*	9	5.4	4
Small-pox	ladino	11	24	31	27	16	27	8	13	34	21.0	19
Scarlet Fever		11	26	82	44	23	16	21	11	10	28.4	40
Diphtheria		3	8	7	7	18	11	11	18	37	13.6	16
Enteric Fever		50	65	81	55	90	36	39	70	61	61.2	65
Measles		38	36	68	51	86	19	23	175	61	62-1	64
German Measles						***				3	0.7	4
Erysipelas		1	9	7	2	7	5	5	11	3	5.3	3
Typhus Fever										1	0-1	
Continued Fever		12	11	11	11	19	10	1	5	9	10.2	13
Relapsing Fever							1				0.1	
Tuberculosis :—												
Pulmonary										71	222	151
Other kinds											0.7	7
Other diseases (including	Chicken-	17	16	35	42	41	57	25	38	42	35.1	38
pox). Total		153	211	336	252	308	189	144	350	343	278.5	447
(b) TREATED IN PORT SAI HOSPITAL:					,		,	0			0.4	
Cholera (including suspect	ed cases)		***		1		1	2		***		
Yellow Fever (ditto)									***		4.8	
Plague (ditto)		4	3	1	3		1	2		1	1.7	9
		5	4		8		4	2	6	2	4.0	
		7.	3	28	4	6	14	***	6		7.1	3
•		***	2	1	3	5	1	4	3		2.6	7
		33	23	26	27	42	11	17	22	35	26.5	29
		8	13	3	14	13	5	2	7	27	11.0	18
			2	1		1	1			1	0.6	***
		12	9	7	10	6	10	1	4	7	7.5	9
Other diseases (including pox).	Chicken-	4	_1	- 24	5	15	10	7	8	7	9.4	14
Manage		73	60	91	75	88	58	37	56	80	70.8	91

#### TABLE VI.

Return of the Number of Cases of Infectious Disease Notified to the Local Government Board during the Year 1913, and of Deaths from the Diseases Notified:—

				Notified.	Deaths.
Small-pox		- N	11401	5	1
Scarlatina or Scarlet Fev	ver -	ille 196		38	
Diphtheria (including M	embranc	us Croup	) -	13	- Dennis
Typhus Fever -	1	2	-		Hardi
Enteric or Typhoid Feve	r -		-	45	2
Continued Fever -	-	-	-	11	1
Relapsing Fever -		-	The same		
Puerperal Fever -	-	-	1		
Cholera		2	1		yluk
Erysipelas	-	-	-	3	
Plague	-	-	-	2	
Measles	-	-	100	40	1
Chicken-pox	0 -	1 2		27	do.s0
Tuberculosis : Pulmonar	у -	5		119	3
Other kind	is -	-	-	3 .	
Remittent Fever -	-		-		
				306	8

#### NUMBER OF NOTIFICATIONS DURING 1913.

			Not trace	ed.
	Passengers.	Crew.	Passengers.	Crew
Small-pox	136	107	4	2
Plague (suspected) -	110	69		
Measles	17			

TABLE VII.

VESSELS AND PREMISES DISINFECTED, FROM 1ST JANUARY TO 31ST DECEMBER, 1913.

							Reason	n for I	Disinfe	ction.						Jo
Month.		Cerebro-Spinal Meniogitis.	Chicken-pox.	Cholera.	Continued Fever.	Diphtheria.	Enteric Fever.	Erysipelas.	Measles.	Plague	Scarlet Fever.	Small-pox.	Tabercalosis.	Precautionary Measure.	Fumigation	Total Number of
January -	-													2		2
February -	-				2		2		****	***	***			3		7
March -	-		1				2				1	2	444	2		8
April -	-								1		1		1	1		4
May -	-		2			1	3		2		3		2	2	2	17
June -	-		1		3	1	3		4	1			1	4	2	20
July -	-		1		1		4		1				1	4		12
August -	-						2		1	1	1	2	1	3	2	13
September	-		2		1		2		1			1	3	2		15
October -	-						4	1	3			1	4	2		15
November	-						3		***				5	2		10
December-	-		1			2	3		1	****			2	2		1
Totals -	-		8		7	4	28	1	14	2	6	6	20	29	6	13

TABLE VIII.

Number of Disinfections of Effects, Bedding, &c., from 1st January to 31st December, 1913.

		Bigi				R	eason :	for Dis	infecti	ion.				g, dec.	ri.	Steam used.	pa .
Month.		Cholera.	Chicken-pox.	Continued Fever.	Diphtheria.	Enteric Fever.	Erysipelas.	Measles,	Plague,	Scarlet Fever.	Small-pox.	Tuberculosis.	Precautionary measure.	Hospital Bedding, &c.	Total Effects.	Number of times Steam Disinfector was used,	Disinfected by Fumigation.
January	-													1	1	1	
February	-			2		2									4	3	
March	-		2			2		1		1	1				7	7	
April	-					1		2		1					4	2	
May	-		2		1	3		2		3		1			12	5	
June	-			3	2	2		4	1						12	5	
July	-		1	1		3									5	2	
August	-					3		1	1	1	2				8	2	
September						3		1							4	3	
October	-		1			4		1			1		1		8	5	
November	-					2						1			3	2	
December	-				2	3							1		6		
Totals	-		6	6	5	28		12	2	6	4	2	2	1	74	37	

The following circular letter was sent to the owners of ships coming from ports infected with Plague, Yellow Fever and Cholera:—

Port of London Sanitary Authority,
51, King William Street, Greenwich,
London, S.E.,
23rd April, 1913.

GENTLEMEN,

As you are aware, vessels arriving from or calling at ports infected with Plague, Yellow Fever and Cholera, are required to stop on arrival at Gravesend for the purpose of Medical inspection.

In the case of vessels carrying a Surgeon, a medical certificate is furnished by him stating whether any sickness has occurred during the voyage. He usually signs a certificate similar to that enclosed herewith, and if this be satisfactory, the Medical Officer of this Authority may, at his discretion, forego the detailed examination of all persons on board, the necessity for turning round and mooring the ship when arriving at Gravesend on a flood tide is thus, in the majority of instances, obviated.

It has been found that the Surgeons of ships, in some instances, have signed these certificates indicating that there had been "no sickness during the voyage," and that he had "examined all persons on board within twelve hours of arrival, and found them all in good health," but the Medical Officer of this Authority has subsequently found persons on board suffering with Small-pox and other infectious diseases.

I regret to find that the importance and value of these certificates, from the shipowners' point of view, have not been appreciated, and it will, therefore, be necessary in future to accept such certificates only from the Surgeons of ships belonging to owners who can ensure that the answers given by their Masters and Surgeons can be relied upon.

I would point out that under the Regulations of the Local Government Board relating to Plague, Yellow Fever and Cholera, any Master or other person is required to answer truly all such questions put to him and give all such information in pursuance of such order, and that the Master and Surgeon is required to state whether there is or has been on board during the voyage any case or suspected case of Plague, Yellow Fever or Cholera or any other fever or sickness.

Neglect to comply with these Regulations entails, on conviction, a penalty not exceeding 100l.

I am aware of the possible loss which may result from detaining ships for the purpose of examining all persons on board in the interest of Public Health, and before I issue instructions accordingly, I desire to know whether it will be possible for you to take such measures and give such instructions as will ensure that all cases of illness of any nature whatsoever on board on arrival or that may have occurred during the voyage, will be reported on the arrival of the vessel at Gravesend, to the Medical Officer of this Authority who accompanies the Officers of His Majesty's Customs to every vessel arriving from foreign whether by night or day.

Your obedient Servant,

(Sgd.) HERBERT WILLIAMS, M.D.,

Medical Officer of Health, Port of London.

The replies received have been most satisfactory, the owners in practically every case having been most willing to co-operate with the Port Sanitary Authority.

Capital Or Half-Broad Con Con Continuous Con

CASES OF ILLNESS

WITH FEVERISH SYMPTOMS

OR

DIARRHŒA

CASES OF INFECTIOUS OR CONTAGIOUS

DISEASE.

(Enclosure to Circular Letter of 23rd April, 1913.)

#### Port of London



#### Sanitary Authority.

Ship

at Gravesend

19

16

The Medical Officer of Bealth,

Offices: King William Street, GREENWICH, S.E. IN THE

TELEGRAPHIC ADDRESS:
"MEDOFF, GREEN, LONDON."
TELEPHONE NO.
NEW CROSS 36.

I hereby certify that there has been:-

- (a) No case of Infectious or Contagious Disease.
- (b) No illness exhibiting Feverish Symptoms or Diarrhæa, on board this Vessel while lying in the Port of or during the voyage here (except as stated on the back hereof).

I have inspected every person on board within 12 hours of arrival, and find all in good health and free from symptoms of Cholera, Yellow Fever and Plague.

Signature of Ship's Surgeon.

[PLEASE TURN OVER.

#### TABLE IX.

#### (CHOLERA.)

Date.		Name of Vessel, Port of Registry, and Official Number.	Where from.		No of Cases.	How dealt with.		
191	3.		i		i		A STATE OF THE PARTY OF THE PAR	
Jan.	20	s.s. "Malta," of Greenock, 102,398	-	Calcutta	-	3	Landed at Calcutta.	
Nov.	5	s.s. "Euphorbia," of N. Shields, 117,972	-	Braila	-	14	Landed at Braila. Six cases fatal.	
22	15	s.s. "Faraday," of London, 68,535	-	Batavia	-	1	Died, and body buried at Batavia.	
"	20	s.s. "Statesman," of Liverpool, 105,319		Calcutta	-	1	Died, and body buried at sea.	
			1	Total	-	19		

#### CHOLERA.

The s.s. "Malta," of Greenock, 102,398, arrived at Gravesend on the 20th January, 1913, from Calcutta, having landed three cases of Cholera (one of which proved fatal) and three cases of acute Diarrhœa there on the 16th December, 1912. The cases had been ashore daily at Calcutta, and infection had been contracted there. Complete disinfection was carried out at Calcutta, and the water tanks were emptied and cleansed with Condy's fluid, and subsequently refilled. No other cases occurred, and on arrival at Gravesend all on board were found to be well.

On the 10th October I received information that an outbreak of Asiatic Cholera had occurred on board the s.s. "Euphorbia" at Braila. The vessel left there on the 3rd October for London.

The vessel arrived on the 2nd November, from Braila, having had 14 cases of Asiatic Cholera on board, 6 of which proved fatal. The vessel and effects were disinfected at that port. I am informed that one drinking water tank was filled with river water from alongside the ship at Braila, for the use of the Native crew. This was discontinued after sickness broke out among the Natives, and the tank was emptied and cleaned, fresh water then being taken from on shore. A sample of drinking water was taken from this vessel, and examined bacteriologically, but the result proved "negative" as regards the presence of bacilli.

The vessel was carefully inspected on arrival at Gravesend, and all on board were found to be well.

The cable ship "Faraday," of London, 68,536, arrived at Gravesend on the 15th November, from Batavia. On the 6th July a fireman was taken ill, and died on the 8th July, the body being landed at Batavia. The vessel and effects were disinfected at that port. No further cases occurred, and on arrival at Gravesend all on board were found to be well.

The s.s. "Statesman," of Liverpool, 105,319, arrived on the 20th November from Calcutta. On the 30th October a native trimmer was taken ill. He gradually became worse, and died on the 2nd November, the body being buried at sea. The water tanks were disinfected at Suez on the 7th November, and a fresh supply taken in. The quarters were disinfected, together with effects. No fresh cases occurred, and on arrival at Gravesend all on board were found to be well.

#### TABLE X.

#### (YELLOW FEVER.)

Date.	Name of Vessel, Port of Registry, and Official Number.	Where From.	No. of cases.	How dealt with.
1913. Aug. 18	s.s. " Hydra," of Glasgow, 115,131	Manaos -	4	3 died and were landed at Manaos, and 1 recovered.

## TABLE XI. PLAGUE (SUSPECTED).

Date.	Name of Vessel, Port of Regis and Official No.	try Where from.	No. of Cases.	How dealt with.
1913.				
May 19	s.s. "Mongolia," of Gree 117,383.	nock, Sydney	1	Died and body buried at sea.
June 14	s.s. "Gloucestershire," of I pool, 131,296.	Liver- Rangoon -	1	Removed to Port Sanitary Hospital.
July 19	s.s. "India," of Gree 105,572.	noek, Bombay -	1	Landed at Marseilles.
Aug. 12	s.s. "Derbyshire," of Live 106,876.	rpool, Rangoon -	1	Removed to Port Sanitary Hospital.
	endicated later will	office of the little of the li	4	

#### PLAGUE.

On arrival of the s.s. "Mongolia," of Greenock, 117,383, at Gravesend on the 17th May, it was ascertained that a case of Plague had occurred on board. The patient, a Genoese baker, was taken ill on the 1st May with rigors, and a bubo appeared in the neck. A second bubo appeared in left armpit. The patient died on the 4th May, and the body was buried at sea the same day. The hospital where patient was isolated from the start of his disease was thoroughly disinfected, and also the native crew and effects at Suez and Marseilles. Medical inspection was done at Plymouth, and also on board before arrival in London. No further cases occurred. No disease or mortality amongst the rats on board was observed. On arrival at Gravesend all on board were found to be in good health, and the vessel was allowed to proceed to Tilbury Dock, where the ship was fumigated with Sulphur Di-oxide gas to destroy all the rats and insects on board. The patient embarked on the s.s. "Salzette" at Bombay, was transferred to the s.s. "Mongolia" at Aden, and developed the disease within 24 hours of his transferment.

In my opinion he contracted the disease at Bombay before sailing thence.

The s.s. "Gloucestershire," of Liverpool, 131,296, arrived at Gravesend on the 14th June from Rangoon.

A native fireman was found suffering with enlarged glands in the neck—temperature 101 degrees—and was removed to Denton Hospital with all effects.

The vessel and effects were thoroughly disinfected, and the names and addresses of all passengers and persons leaving the vessel were notified to the respective Medical Officers of Health.

The result of bacteriological examination of fluid from enlarged gland proved to be "negative" as regards Plague.

The s.s. "India," of Greenock, 105,572, arrived on the 19th July from Bombay.

On the 10th June one of the crew (fireman) was taken ill with fever, and an enlarged and inflamed gland in the left groin. He was landed at Marseilles on the 13th June.

All necessary disinfection was carried out at Marseilles.

No dead rats were seen, and no unusual mortality among rats.

On arrival at Gravesend, all on board were found to be well. The vessel was allowed to dock, and kept under observation, after being fumigated thoroughly for the destruction of rats.

The s.s. "Derbyshire," of Liverpool, 106,876, arrived on the 12th August from Rangoon.

A European steward was landed therefrom at Denton Hospital, with an enlarged and painful gland in the left inguinal region. There was some history of fever during the voyage, but none on admission.

The gland was punctured and a specimen of the fluid sent for bacteriological examination, the result of which proved to be "negative" as regards Plague.

RETURN OF RATS EXAMINED BACTERIOLOGICALLY, 1913.

TV1		No. Trapped. Found Dead.		Infected Rats:				
Dock.		No. Trapped.	Found Dead.	Trapped.	Found Dead			
			00					
Royal Albert -		657	32	ED Z STA	3			
Royal Victoria -	-	1,430	176	3	1			
East India	-	99	# M	1 h.				
Millwall	12 3	245	DE 1921 ENG	er ozi -	Made of Street			
West India -	-	153	6					
Tilbury	-	239	6					
London	-	543	6					
Surrey Commercial	1 -	162	5					
St. Katharine -	-	582						
Dock Unknown -	-	15	3					
	Tarif	4,125	234	3	4			

Summary—Total rats examined - - 4,359 ,, ,, infected - - 7

During the year 7 rats were found on bacteriological examination to have, been suffering with plague.

They were as follows:-

Royal Albert Dock - - - 3
Royal Victoria Dock - - 4

Total - -

#### TABLE XII.

#### RETURN OF RATS CAUGHT AND DESTROYED DURING 1913.

The entire cost of destroying these rats has been borne by the Shipowners and Dock Companies.

	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	TOTAL
fillwall Dock—													
Warehouses	164	231	203	137	237	160	191	213	228	274	221	182	2,44
Vessels during voyage	26	20	68	214	20	120	40	12	-	50	52	6	62
" while in dock -	267	257	127	172	280	200	168	211	232	253	225	205	2,59
urrey Commercial Dk.—						1400							
Warehouses	14	15	13	15	11	80	2		24	19	44	33	
Vessels during voyage	HOT.		Pictor.	-	1	-		20	710	-	-	-	2
" while in dock -	43	168	159	1000	145	71	153	96	128		6		96
Regent's Canal Dock—													
Warehouses	-	_	1 (200	-	720	-	1000	_	-	-	-	-	-
Vessels during voyage	-	111	-	015	1000	11	1	2200		1		-	-
" while in dock -	-	-	-	-	-	_		m Tu	-	M In	-	0.70	-
St. Katharine's Dock—	-												120
Warehouses	58	63	66	52	68	43	52	66	47	57	73	54	69
Vessels during voyage	-	71 70	-	District !	-	-	-	11	1		-	nimic	-
" while in dock -	_	_	-	-	-	_	-	_	_	_		_	-
London Dock-	ATTE	ULIO					7	FI AS					
Warehouses	38	54	87	68	73	45	52	107	139	102	117	91	9
Vessels during voyage	-	-	-	-	-	-		-	-	-	-	-	-
" while in dock -	2000	-	-	-	-	-	-	-	5	-	-	-	
Albert and Victoria Dks													
Warehouses	411	684	732						668			469	1 - 1 - 1
Vessels during voyage	51	320							44			1,087	
" while in dock -	642	1,039	1,057	643	552	854	700	910	483	473	624	407	8,38
West India Dock—	100						F Total						
Warehouses	64		125			251	236		164	169			
Vessels during voyage	62	27	120						34	110			
" while in dock -	170	196	369	126	341	195	158	307	268	385	442	164	3,15
East India Dock—													
Warehouses	47	23	33	36	42			52	54	42	49	26	
Vessels during voyage				-	-	20			-	-		101	1.0
" while in dock -	148	154	62	11	41	33	85	113	64	84	105	191	1,0
lilbury Dock—			1				1777	The state of	1				
Warehouses	58												1,9
Vessels during voyage	468	572											
" while in dock -	234	256	343	136	235	465	280	531	209	231	226	319	3,4
liver—	-14							-				I Lin	
During voyage	-	-	_	340	312	235	126	50	20	6	12	6	1,1
While in river	-	-	-	-	-	-	-	-	-	-	-	-	-
10 10 10 10 10 10 10 10 10 10 10 10 10 1		171		Bhs			REAL PROPERTY.						
Totals	2,965	4,313	4,943	4,075	4,234	4,481	3,524	4,685	3,775	3,571	4,112	3,869	48,5

Total from February, 1901, to 31st December, 1912 - 745,634

Total from 1st January to 31st December, 1913:—

In Dock Warehouses - - - 16,660
On Vessels during voyage - - 12,255
On Vessels while in Dock and River - 19,632

48,547

TOTAL

794,181

#### RAT PLAGUE.

In previous Annual Reports, I have reported the existence of Plague amongst the rats in the Port of London and have printed the correspondence which I have had with the Port of London Authority with a view to preventing the recurrence of this danger.

The Local Government Board arranged for an interview between the Port of London Sanitary Authority and the Port of London Authority at the Local Government Board on 26th September, 1913, with the idea of discussing the question.

The risk of human infection arising in London owing to the existence of rat plague in London and in its docks and warehouses was mentioned. It was pointed out that if more than two cases of human plague were reported in the Port of London, it would have to be declared an infected port, and in consequence the financial loss to the shipping trade would be very large.

Four sets of measures were indicated as being desirable to be carried out.

First, that all the warehouses in which food is placed or stored should be made ratproof.

Secondly, all refuse and waste matter that forms harbourage for rats should not be disposed of around the warehouses.

Thirdly, that the present type of sanitary conveniences should be replaced by water closets with modern arrangements inaccessible to rats.

Fourthly, that not only should the warehouses be made ratproof, but also the dwelling houses and offices within the dock area should be treated in a similar way.

The following extracts from a Report of the Citizens' Health Committee on eradicating rats from San Francisco are interesting as showing the sort of work which might have to be done should Plague be introduced into London.

The epidemic broke out in 1906, and only Chinatown where proper ratproofing measures had been taken during a previous outbreak in 1900 was exempt from Plague. The first case occurred in March, 1907, and between August, 1907, and January 31st, 1908, 159 cases occurred with 77 deaths. In the course of the epidemic, some 154,000 rats were bacteriologically examined. 400 paid Inspectors and labourers were kept at work for several months, in addition to the force maintained by the Board of Health and the Federal Government, together with a large force of voluntary Inspectors. 3,000l. was spent in rat traps and poisons alone; cheese for bait being purchased in lots of a ton at a time. In November, 1907, the expense of anti-plague operations in San Francisco alone were 10,000l., and between August, 1907, and June, 1908, no less than 84,400l. were spent in these operations.

The measures which proved successful were:-

- 1. The destruction of rat-harbouring places.
- 2. Careful search for rat corpses.
- 3. The ratproofing of buildings.
- 4. Rat-trapping and poisoning.
- 5. The removal as far as possible of the rats' food supply.

All freights leaving the City by water were inspected, and such products as grain, dried truits, flour, hides, &c., were not allowed to be shipped unless certified as having previously been stored in rat-proof warehouses, and as having been found on examination to be free from rat infestation.

Should Plague break out in London, and if foreign countries should decide to inflict similar restrictions on all food stuffs leaving the Port of London under the conditions existing at the present time, such exports would be practically prohibited.

TABLE XIII.

(SMALL-POX.)

Date.		Name of Vessel, Port of Registry and Official Number.	Where from.		No. of Cases.	How dealt with,		
1913	hind	de besone se benefe si ben	distribution of	1	0.0	and the sale sale		
March	8	s.s. "Gloucestershire," of Liver- pool, 131,296.	Rangoon	-	7	One removed to Grays Hospital Port Sanitary Hospital, and 2 at Liverpool.		
**	17	s.s. "Egypt," of Greenock, 105,581.	Bombay	-	1	Landed at Aden.		
"	25	s.s. "Gaea," of Christiania.	Candia	-	1	Removed to Port Sanitary Hospital		
April	12	s.s. "Bright Wings," of London, 125,786.	Busreh	-	1	Landed at Busreh.		
one w	28	s.s. "Comrie Castle," of London, 118,342.	Mauritius	-	1	Landed at East London.		
May	18	s.s. "Den of Crombie," of Dundee, 123,322.	Yokohama	-	1	Landed at Sabang.		
June	4	s.s. "Ancona," of London, 95,205.	Gibraltar	-	1	Landed at Lisbon.		
Aug.	7	s.s. "Batavier II.," of Rotter-	Rotterdam	-	1	Removed to Port Sanitary Hospital.		
"	28	s.s. "Dolfyn, of Groningen.	Cologne -	-	1	Ditto.		
Sep.	22	s.s. "Mongolia of Greenock, 117,383.	Sydney	-	1	Landed at Sydney.		
Oct.	18	s.s. "Manora," of Glasgow, 133,129.	Calcutta	-	2	Removed to Port Sanitary Hospital.		
Dec.	31	s.s. "Nevassa," of Glasgow, 133,102.	Calcutta	-	1	Landed at Colombo,		
	ton 1		Total		19			
	don			1	Robert			

#### SMALL-POX.

The s.s. "Egypt," of Greenock, 105,581, arrived on the 14th March, from Bombay, having landed a case suspicious of Small pox at Aden on the 26th February. The Native quarters were disinfected, and the crew were reported to have been vaccinated at Bombay. No further cases occurred, and on arrival at Gravesend all on board were found to be well.

The s.s. "Gloucestershire," of Liverpool, 131,296, arrived at Gravesend at 3.10 a.m. on March 8th. She sailed from Rangoon on the 5th February, calling at Colombo, February 11th, Suez, February 22nd, Port Said, February 23rd, Marseilles, February 28th, and Portland, Dorset, March 7th.

The vessel was boarded at Gravesend by the Assistant Medical Officer of this Authority, in company with the Customs Preventive Officer. They were received by the Captain and the Surgeon of the vessel at the top of the ladder, and, in reply to their questions, each stated that there had been no sickness on board save that a member of the Native crew had fallen from the bridge, injuring his leg. The Assistant Medical Officer, accompanied by the Captain, inspected the Native members of the crew, looking especially for signs of Plague as the vessel had come from, and had touched at, ports where that disease existed. It was dark at the time, and artificial light had to be used for the purpose of examination.

The Surgeon subsequently filled in a certificate, stating that there had been no contagious or infectious disease, or any illness exhibiting feverish symptoms or diarrhœa while lying in the Port of Rangoon or on the voyage to London. This certificate also stated that he had examined the crew within twelve hours of arrival, and found all in good health and free from symptoms of Cholera, Yellow Fever, and Plague.

The vessel was in a hurry to save her tide for docking, and the vessel entered Tilbury Dock, where the passengers landed, their names and addresses having been previously furnished to the Medical Officer. In the course of the day various members of the crew departed for their homes. At 10 p.m. I received a telephone message that one of the crew, who had gone to his home at Grays, had developed Small-pox. I telephoned Dr. Willoughby, communicated the facts to him, and he proceeded at 11.30 p.m. to Tilbury Dock, and visited the vessel. The donkeyman was found to be ill, and Dr. Willoughby, on examining him, found that he was in the very earliest stage of the eruptive condition of the disease. On March 9th at 8 a.m. the launch entered Tilbury Dock, and the donkeyman and three members of the Native crew were removed to Denton Hospital suffering from Small-pox. The remainder of the Native crew with their effects were also taken to Denton Hospital, thoroughly disinfected, and returned to the vessel by 7 o'clock on the morning of the 10th, whilst the effects of the white crew were fumigated with sulphur to render them safe for handling. The members of the white crew with their effects were then removed to the Hospital and treated in a similar manner. Dr. Willoughby also vaccinated 128 members of the crew, only the chief engineer declining, as he had been successfully vaccinated by Dr. Willoughby about three years ago. I was subsequently informed that two members of the crew, who had gone to Liverpool, had developed the rash of the disease, and had been isolated in hospital.

I received a call from the Surgeon of the vessel on March 10th, and he furnished the following information:—

It appears that the Native crew joined the ship at Rangoon, and were signed on at Calcutta, having been previously examined for disease, and vaccinated by the Medical Officer at that port. (This vaccination was apparently done very perfunctorily) in the majority of cases only one mark being found, and all of which had been unsuccessful.

At Colombo the crew were mustered and examined by the port doctor.

Soon after leaving Colombo, about February 12th, he was called in to see a native fireman who had a rash on his face and body, with a few spots on wrists and hands. As he was uncertain of the diagnosis, he took the precaution of isolating the man in the ship's hospital on deck, and all the crew's belongings were brought upon deck, and the crew's quarters thoroughly disinfected.

The same afternoon he found two other men who had spots on the forehead and a few on the body. In his opinion this was due to "acne"—temperatures normal, and the men were sent back to work.

On arrival at Suez, the man in hospital was shown to two medical officers who boarded the ship there, and they decided that the disease was not small-pox, or anything infectious.

On leaving Port Said on the 23rd February, another man developed spots on his face and body, precisely similar to the man who was isolated. He also was put into hospital with the other man, and on arrival at Marseilles the whole of the crew were mustered and examined one by one, and passed by the port doctor.

The first man went back to work as he was perfectly well, the other remaining in hospital until within three days of London.

On March 5th, the doctor was called in to see the carpenter who complained of pains in the groin. He had an enlarged gland. Next day he had pains in his back—temperature being quite normal, and on March 7th got up and went about his work as usual. There was no sign of a rash at that time.

The same day the doctor saw the donkeyman, who complained of feeling sick, with pains in the chest. There was no rash.

The entire crew having been inspected at Colombo, Suez and Marseilles, and on each occasion were passed free from infectious disease of any kind.

Since leaving Marseilles there was no further case of "rash," so that on arriving at Tilbury he had no hesitation in declaring that there had been no infectious disease on board.

It would appear from the facts that the first man developed the disease on February 12th, and that he infected the man on February 23rd, who in turn infected the donkeyman and the others. Thus there were three generations of this disease on the vessel between Rangoon and her arrival in Tilbury Dock.

The Master of the ship and the ship's Surgeon did not answer truthfully the questions which were put to them when they stated that there had been no sickness during the voyage, in view of the subsequent admission that two men had been isolated for some days during the voyage.

The facts were laid before Mr. Solicitor for such action as he deemed necessary. He did not advise a prosecution.

The s.s. "Comrie Castle," of London, 118,342, arrived on the 24th April, 1913, from Mauritius. The carpenter was taken ill on March 24th, and landed at East London suffering with Small-pox. All the crew were vaccinated at the time, and the cabin was disinfected with Sulphur Di-oxide gas. No further cases occurred, and all were well on arrival at Gravesend.

The s.s. "Den of Crombie," of Dundee, 123,322, arrived at Gravesend on the 18th May, having landed a case of Small-pox at Sabang on the 13th April last. The patient was a native fireman. The vessel and effects were thoroughly disinfected at Sabang.

No further cases occurred, and on arrival at Gravesend all on board were found to be in good health.

The s.s. "Gaea" (Norwegian) arrived on the 24th March from Gandia, when it was found that one of the crew was suffering from fever and headache. Although no rash was present the symptoms were so suspicious of Small-pox that the patient was landed at Denton Hospital. On the 25th the eruption came out, and the case was definitely diagnosed as one of Small-pox. The ship was fumigated and disinfected, and the names and addresses of all possible contacts were notified to the respective Medical Officers of Health. The ship left for Swansea on the 26th, and the Medical Officer of Health for that port was notified accordingly.

The s.s. "Brightwings," of London, 125,786, arrived on 12th April from Busreh, having landed a case of Small-pox at that place on the 25th February. The quarters were disinfected there, and the crew vaccinated. No other cases occurred, and all were in good health on arrival at Gravesend.

The s.s. "Ancona," of London, 95,205, arrived from Gibraltar on the 4th June, when it was ascertained that a man had been landed at Lisbon with a rash on face and body. The diagnosis was unknown, but was said to have been suspicious of Small-pox.

All on board appeared to be well on arrival, and the vessel has been kept under daily observation during her stay in port.

The names and addresses of all persons leaving the ship were notified to the respective Medical Officers of Health.

The vessel left for Lisbon on the 14th June.

The s.s. "Batavia II., of Rotterdam, arrived on the 7th August, from Rotterdam.

In the course of examination of the alien passengers on board, it was noticed that a 2nd class passenger had spots on her face, which was very suspicious of her having suffered recently with Small-pox.

The history of the case was that-

She was taken ill four weeks previously with pains "all over her body," accompanied with shivering and vomiting. Four days later spots came out (chiefly on the face, hands and arms). She had been "out and about" in Holland for the past fourteen days, and the nature of the disease had not been diagnosed.

The case was removed to Denton Hospital, and there was no doubt that she had had Small-pox recently. After thorough disinfection, together with all clothes, she was released.

The ladies' cabins were thoroughly disinfected, and all infected bedding, &c., similarly treated.

The patient was only discovered at the last moment, after the majority of the passengers were on the tender on their way to the shore, but no powers are possessed to delay the ship or even to take the names and addresses of the passengers in the case of small-pox.

Upon the subject of providing safeguards for the protection of this country from the introduction of Small-pox your Committee, on the 15th May last, addressed the following letter to the Local Government Board:—

"GUILDHALL, E.C.,

" 15th May, 1913.

"SIR.

"The Port of London Sanitary Committee have had presented to them reports from the Medical Officer of Health dealing with cases of Small-pox on the s.s. "Gaea" and s.s. "Gloucestershire," and I am directed to enclose copies of the same.

"The Committee note that there are many vessels arriving in the Port of London within 14 days of their departure from ports at which Small-pox is known to exist.

"It is possible that, as in the case of the s.s. "Gaea," there may be persons on board who are incubating the disease, but who have as yet shown no signs or symptoms of Small-pox. Such persons, if members of the crew, usually are paid off and land in London, where they are lost trace of, and should they develop this disease, would form foci which might constitute the starting points of a serious epidemic of Small-pox.

"The Committee are informed by the Medical Officer of Health that he has no powers to deal with these vessels should they arrive with no sickness on board, unless they have come from, or touched at ports infected with Plague, Yellow Fever or Cholera.

"Having regard to the fact that there is a large and increasing number of persons in this country unprotected by vaccination or re-vaccination, they think that powers should be given to Port Sanitary Authorities to visit and inspect all persons on board ships arriving from ports at which Small-pox is known or suspected to exist and situated within 14 days steaming of ports in this country; that all persons on these vessels should be required to give their names and addresses; that they should be detained on board in cases where the addresses given are unsatisfactory; and that a penalty should be imposed on such persons similar to that contained in the Local Government Board Order relating to Plague, Yellow Fever and Cholera.

"I am,

"SIR,

"Your obedient Servant,
(Signed) "JAMES BELL.

" To the Secretary,

"Local Government Board,

"WHITEHALL,

" S W "

To this communication the following reply was received :-

"LOCAL GOVERNMENT BOARD,

"WHITEHALL, S.W.,

" 29th August, 1913.

"SIR,

"I am directed by the Local Government Board to advert to your letter of the 15th May last, suggesting that certain powers should be conferred on Port Sanitary Authorities in the matter of the visitation and inspection of persons on board ships arriving from ports at which Small-pox is known or suspected to exist, and situate within 14 days' steaming of ports in this country.

"In reply, I am to state that the Board have carefully considered this proposal both in regard to the administrative measures which would be needed to give effect to them, and to the question of international arrangements which would be involved, but that they do not consider, on the evidence before them that they would be justified in adopting the course suggested.

"I am, SIR,

"Your obedient Servant,

(Signed) "THOS. PITTS,

"Assistant Secretary.

"THE TOWN CLERK,
"GUILDHALL."

The decision of the Local Government Board is to be regretted, as a serious loop-hole exists by which it is possible for Small-pox to be introduced into this country.

The s.s. "Mongolia," of Greenock, 117,383, arrived at Gravesend on the 21st September, from Sydney, having landed a European steward there with a disease suspicious of Small-pox. It was stated that he had been successfully vaccinated three weeks previously.

All Europeans and native crew had been recently vaccinated. Necessary disinfection was carried out at Sydney. No further cases occurred, and all were found to be well on arrival at Gravesend.

The s.s. "Manora" of Glasgow, 133,129, arrived from Calcutta on the 17th October, 1913, when a case of Small-pox was removed therefrom to Denton Hospital. All necessary disinfection was carried out—the natives were vaccinated, and vaccination was carried out in the case of all others who wished it. The names and addresses of all the persons leaving the ship were taken and notified to the respective Medical Officers of Health. The vessel was kept under strict observation, and on the 18th October another case of Small-pox was found, and removed to Denton Hospital.

The s.s. "Nevassa," of Glasgow, 133,102, arrived from Calcutta on the 29th December, having landed a case of Small-pox at Colombo on the 30th November last. No further cases occurred.

All disinfection was carried out at Colombo, and on arrival at Gravesend all on board were found to be well.

TABLE XIV.

#### (SCARLET FEVER.)

Date.	Name of Vessel, Port of Registry, and Official Number.	Where from.	Number of Cases.	How dealt with,
1913.	Control of the managem control	manter may	OF DE	the manufacture of the second
January 24	Training Ship "Exmouth," lying off	Grays -	2	Removed to Hospital at
Feb. 17	s.s. "Johannesburg," of North Shields, 104,829.	East London	1	Landed at East London.
March 18	s.s. "Omrah," of Glasgow, 108,783 -	Brisbane -	1	Left vessel in London, con- valescent.
., 29	s.s. "Orvieto," of Belfast, 129,628 -	Do.	1	Isolated on board.
April 10	s.s. "Arcadia," of Belfast, 93,172	Bombay -	1	Removed to Port Sanitary Hospital.
May 8	s.s. "Guildford Castle," of London, 132,611.	Delagoa Bay	1	Landed at Southampton.
., 9	s.s. "Hamlet," of Hull, 123,228 -	North Sea	2	1 removed to Guy's Hospital and 1 to Port Sanitary.
,, 80	s.s. "Highland Glen," of London, 129,139.	Buenos	2	Convalescent on arrival in London.
August 27	Barge "Gog and Magog" (watch barge),	Ayres lying at Woolwich.	2	1 removed to hospital at Leyton, and 1 to Port Sanitary hospital.
Sept. 4/12	Training Ship "Exmouth," lying off	Grays -	13	Removed to Ship's Hospital on shore.
Sept. 29, Oct. 3, 14 and 17	Ditto -	Do.	4	Ditto.
Oct. 27	Ditto -	Do.	1	Removed to North Eastern Isolation Hospital,
Nov. 6	Ditto	Do.	1	Ditto.
,, 14	Ditto -	Do.	3	Removed to Homerton Hospital.
,, 19	Ditto -	Do.	1	Ditto.
,, 21	Ditto -	Do.	1	Removed to Brook Hospital, Woolwich,
., 26	Ditto -	Do.	1	Ditto.
,, 28	Ditto -	Do.	1	Removed to North Eastern
Dec. 10	Ditto -	Do.	1	Isolation Hospital. Ditto.
		Total	40	

As will be seen from the preceding table, there was in September an outbreak of Scarlet Fever on the training ship "Exmouth" belonging to the Metropolitan Asylums Board. The outbreak did not attain the proportions of an epidemic, but was passed on from case to case until December—the total number of cases reported to me being 27. All the cases were removed to the Board's Hospitals for treatment.

TABLE XV. (DIPHTHERIA.)

Date.	Name of Vessel, Port of Registry, and Official Number.	Where from.	Number of cases.	How dealt with SICE
1913.	Sept 12 Delines 1	210,20	Duning	May 10 par Standar of
Feb. 28	Training Ship "Arethusa," lying off	Greenhithe	1	Removal to ship's Hospital on shore.
April 5	s.s. " Perm," of Copenhagen	Libau -	1	Removed to Seamen's Hospital, Greenwich.
May 14	s.s. "Suevic," of Liverpool, 113,456.	Sydney -	2	1 removed to Port Sanitary Hospital; 1 recovered.
June 7	s.s. "City of Paris," of Glasgow, 124,223	Calcutta -	1	Landed at Marseilles,
., 9	s.s. "Montreal," of Liverpool, 113,373	Montreal -	1	Removed to Port Sanitary Hospital.
., 18	s.s. "Macedonia," of Belfast, 116,012	Bombay -	1 .	Died, and body buried at sea.
Aug. 5	Training Ship "Exmouth," lying off	Grays -	1	Removed to Eastern Isolation Hospital.
Sept. 25	s.s. "Kaga Maru, of Tokio	Yokohama	1	Removed to Port Sanitary Hospital.
Oct. 22	s.s. "Andania," of Liverpool, 135,481	Montreal -	1	Landed at Plymouth.
Nov. 19	Training Ship "Arethusa," lying off	Greenhithe	1	Removed to Bow Arrow Land Hospital.
Dec. 8	s.s. "Lake Michigan," of Liverpool, 115,252.	Montreal -	4	3 removed to Port Sanitary Hospital; 1 recovered—left vessel in London.
,, 19	s.s. "Mantua," of Greenock, 127,544	Bombay -	1	Ditto,
	of angel and a subjective	Total	16	W. W. Sandaran S. C. Control of the

TABLE XVI. ENTERIC FEVER.

Date.		Name of Vessel, Port of Registry, and Official Number.	Where from,		No. of Cases.	How dealt with.	
1918		Tartanasti v amelikas			Wast.	9 Day 2 La 10 102	
Jan.	9	s.s. "Tainui," of Southampton, 124,507	Wellington		1	Left vessel in London, con- valescent,	
Feb.	8	s.s. "Alnwick Castle," of London,	Mauritius	-	1	Landed at Durban.	
19	10	114,784. s.s. "Runic," of Liverpool, 113,441	Sydney -	-	1	Ditto.	
March	3	s.s. " Paparoa," of Plymouth, 111,346-	Wellington	-	1	Landed at Monte Video.	
27	12	s.s. "Montfort," of Liverpool, 110,568	St. John's		1	Removed to Port Sanitary	
**	21	s.s. "Hurunui," of Plymouth, 132,751-	Wellington	-	1	Hospital. Ditto.	
"	22	s.s " Morea," of Glasgow, 128,235 -	Sydney -	-	1	Landed at Marseilles.	
75	26	s.s. "Dover Castle," of London,	Delagoa Bay	-	1	Left vessel in London, con-	
33	27	118,409. s.s. "Morea," of Glasgow, 128,235 -	Sydney -		1	valescent. Landed at Marseilles.	
April	4	s.s. "Somerset," of London, 118,292 -	Brisbane	-	1	Isolated on board.	
19	9	Training Ship "Arethusa," lying off G	reenhithe-	-	1	Removed to Ship's Hospita	
"	18	Ditto ditto	Simple -	-	1	on shore, Ditto.	
**	28	s.s. "Inkosi," of Aberdeen, 115,582 -	Beira -	-	1	Died, and body buried at sea	
**	29	s.s. "Argyllshire, of Glasgow, 129,581-	Adelaide		1	Landed to Colombo.	
May	5	s.s. "Esmeraldas," of Liverpool, 123,985	Areca -	-	1	Removed to Port Sanitary	
		Dillor Apres Land	Forward	-	15	Hospital.	

Date.	Name of Vessel, Port of Registry, and Official Number.	Where from.	No. of Cases.	How dealt with.
1913.	Brought	forward	15	Date of Persons
May 10	s.s. "Maloja," of Belfast, 132,012 -	Bombay -	1	Landed at Port Said.
,, 14	s.s. "Phœbe," of Cardiff, 98,449 -	Santa Fé -	1	Left vessel in London, con-
., 15	s.s. "Galway Castle," of London,	East London -	1	valescent. Landed at Southampton.
,, 22	132,616. s.s. "Cluny Castle," of London, 118,323	Mauritius -	2	Removed to Port Sanitary
June 4	s.s. "Themistocles," of Aberdeen,	Brisbane -	1	Hospital. Removed to Hospital at
., 7	129,349. s.s. "Morayshire," of Glasgow, 108,778	Rockhampton-	1	East Ham. Removed to Port Sanitary
,, 16	s.s. "Highland Scot," of London,	Buenos Ayres	1	Hospital. Left vessel in London, con-
,, 30	129,130. s.s. "Pomeranian," of Glasgow, 85,913	Montreal -	2	valescent. Removed to Port Sanitary
July 5	Barge " Loo," of London, 87,057 -	Northfleet -	1	Hospital. Patient died at home.
" 12	s.s. "Nore," of Greenock, 123,531 -	Antwerp -	1	Removed to Branch Sea-
,, 14	s.s. "Worcestershire," of Liverpool,	Rangoon -	1	men's Hospital. Landed at Port Said.
,, 20	118,126. s.s. "Balaclava," of London, 128,654 -	Antwerp -	3	2 removed to Port Sanitary Hospital and 1 at Woolwich.
,, 25	Training Ship "Arethusa," lying off G	reenhithe -	1	Removed to Ship's Hospital on shore,
,, 26	s.s. "Athenic," of Liverpool, 115,239 -	Wellington -	1	Removed to Port Sanitary Hospital.
,, 28	s.s. " Mountain Laurel," of Sandefjord	Unea	1	Ditto.
Aug. 6	s.s. "Stat," of Aalsund	Stettin	1	Ditto.
" 14	s.s. "Corinthian," of Glasgow, 11,257	Montreal -	1	Ditto.
" 26	s.s. "Torrinton," of Cardiff, 119,962 -	Bahia Blanca -	1	Landed in London, con- valescent.
., 29	s.s. "Brodvale," of London, 110,136 -	Hankow -	1	Landed at Aden.
Sept. 4		Philadelphia -	2	Removed to Port Sanitary Hospital.
" 6	pool, 132,814. s.s. "Ivanoe," of Trondhjem	Archangel -	1	Removed to Seamen's Hospital, Greenwich.
" 15	s.s. " Atsuta Maru," of Yokohama -	Yokohama -	1	Landed at Suez.
,, 29	s.s. "Dicky," of Liverpool, 113,939 -	Goole	1	Removed to Seamen's Hospital, Greenwich.
,, 29	s.s. "Hitachi Maru," of Tokio	Yokohama -	4	Ditto.
Oct. 3	s.s. "Albatross," of London, 89,541 -	Genoa	1	Removed to Port Sanitary Hospital.
., 9	s,s. "German," of Southampton,	Cape Town -	1	Convalescent on arrival in London.
,, 18	109,290. s.s. "Scotian," of Glasgow, 129,547 -	Montreal -	7	Removed to Port Sanitary Hospital.
,, 20	s.s. "Hitachi Maru," of Tokio	Yokohama -	1	Landed at Middlesboro'.
Nov. 15	s.s. "Ionic," of Liverpool, 115,337	Wellington -	1	Removed to Port Sanitary Hospital,
" 15	s.s. "Mount Temple," of Liverpool,	Montreal -	1	Removed to Hospital at Sheerness.
,, 18	113,496. s.s. "Suffolk," of London, 115,859 -	Sydney	1	Removed to Port Sanitary
Dec. 6	s.s. "Tyninghame," of Cardiff, 128,490	Buenos Ayres	2	Hospital. Landed at Rio.
,, 10	s.s. "Kabinga," of London," 125,599 -	Hamburg -	1	Removed to Port Sanitary
, 13	s.s. "Highland Brae," of London,	La Plata -	1	Hospital. Ditto.
,, 29	129,153. s.s. "Highland Glen," of London,	Buenos Ayres	1	Ditto.
	129,130.		65	

#### ENTERIC FEVER.

The s.s. "Stat," of Aalsund, arrived on 3rd August, 1913, from Stettin. The master, in reply to questions put to him, stated that all were well on board, and that there had been no sickness on board during the voyage.

On 6th August, one of the crew was removed from the vessel at Church Hole Tier to Denton Hospital, suffering from Enteric Fever, and it would appear from the state of the man's illness that he must have been ill on the arrival of the vessel at Gravesend.

I communicated with the master asking for an explanation why the case was not reported, and he stated that when the vessel passed Gravesend "none of the crew as far as he knew, were ill, the patient was on deck and performing his work."

The s.s. "Scotian," of Glasgow, 129,547, arrived on the 16th October, from Montreal, and landed seven cases of Enteric Fever at Denton Hospital.

The vessel left London on September 18th, arrived at Havre on the 19th. On the 20th there was an outbreak of illness among the stewards with vomiting and diarrhœa, in all—19 being affected. They all resumed duty at the end of about three or four days.

The first case of Enteric Fever ailed on October 1st, and by the 8th, 7 cases (stewards) were laid up with Enteric Fever.

Among the seven cases were three of the men who had suffered previously with vomiting and diarrhœa on the 20th September.

The stewards had eaten food as supplied to the saloon, but none of the passengers were affected at the same time, although it is stated that some "complained" a few days later.

#### TABLE XVII.

#### (MEASLES.)

Date.		Name of Vessel, Port of Registry and Official Number.	Where from,	No. of Cases.	How dealt with.
1913		edition to make the most that		H.	and along the party
January	13	s.s. "Crane," of London, 118,457 -	North Shields	1	Isolated at home.
,,	25	s.s. "City of Poona," of Liverpool, 131.423.	Calcutta -	1	Left vessel in London, con- valescent.
"	29	Training Ship "Exmouth" lying off	Grays -	1	Removed to North East Hospital,
February	1	s.s. "Orama," of Glasgow, 132,989	Brisbane -	1	Landed at Adelaide.
>>	10	s.s. "Runic," of Liverpool, 113,441	Sydney -	1	Landed at Durban.
March	15	s.s. "Gloucester Castle," of London, 132,592.	Cape Town -	1	Landed at Southampton.
31	29	s.s. "Orvieto," of Belfast, 129,628 -	Brisbane -	2	Isolated on board.
April	14	s.s. "Beltana," of Greenock, 131,853	Sydney -	6	2 removed to Port Sanitary Hospital, 4 isolated on board.
"	28	s.s. "Arabia," of Greenock, 105,587	Bombay -	1	Left vessel in London, con- valescent,
May	7	s.s. "Matiana," of Glasgow, 104,588	Calcutta -	1	Removed to Port Sanitary Hospital,
77	14	s.s. "Himalaya," of Greenock, 99,776	Ditto -	1	Landed at Colombo.
» _amo	24	s.s. "Sir Francis," of London, 129,102	Tyne -	2	Landed at Tyne.
		1 100	Forward -	19	

Date.		Name of Vessel, Port of Registry, and Official Number.	Where from,	No. of Cases.	How dealt with,
1918	3.	Day of the Paris o		10	the collection of sales
		Brough	t forward -	19	incidence and had much
May	26	s.s. "Kasan," of Copenhagen	Libau -	2	Removed to Port Sanitary
June	4	s.s. "Ascania," of Liverpool, 131,342	Montreal -	2	Hospital.  1 removed to Port Sanitary Hos
"	9	s.s." Montreal," of Liverpool, 113,373	Ditto -	2	pital, and I landed at Plymouth Removed to Port Sanitary Hospital.
"	14	s.s. "Kasan," of Copenhagen -	Libau -	2	Ditto.
	18	s.s. "Mount Royal," of Liverpool, 104,498	Montreal -	1	Ditto.
July	15	s.s. "Shropshire," of London, 32,607	Brisbane -	1	Left vessel in London, con- valescent.
	20	s.s. "Orvieto," of Belfast, 129,628	Ditto -	1	Ditto.
August	5	s.s. "Himalaya," of Greenock, 99,776	Bombay -	1	Landed at Aden.
	11	s.s. "Geelong," of London, 118,426	Sydney -	1	Left vessel in London, con-
33	12	s.s. "Andania," of Liverpool	Montreal -	1	Removed to Port Sanitary Hospital.
23	18	s.s. "Kasan," of Copenhagen	Libau -	1	Ditto
September	15	s.s. "Perm," of Copenhagen	Ditto -	4	Ditto
October	15	s.s. "Galician," of Southampton,	Cape Town-	2	Landed at Southampton.
33	18	113,334. s.s. "Scotian," of Glasgow, 129,547	Montreal -	1	Removed to Port Sanitary Hospital.
,,	22	s.s. "Guildford Castle," of London, 132,611.	Delagoa Bay	18	17 allowed to leave vessel, con- valescent. 1 died on board.
December	9	s.s. "Dungeness," of Glasgow, 99,829,	Belfast	1	Landed at Belfast.
"	12	s.s. "Grantully Castle," of London, 129,058.	East London	3	Landed at Southampton.
,,	19	s.s. "Otranto," of Belfast, 124,075 -	Brisbane -	1	Left vessel in London, con- valescent.
		HYX.	Total -	64	valescent,

## MEASLES.

The s.s. "Guildford Castle," of London, 132,611, arrived at midnight on the 22nd October, from South Africa. There had been 18 cases of measles during the voyage, with one death; 16 of them were convalescent on arrival, and were allowed to land after disinfection. One child, a girl aged five years, was so ill that it was deemed desirable to keep her on the vessel for two days, when the mother found lodgings, and the child's temperature then being normal, she was allowed to leave the ship.

TABLE XVIII.
(GERMAN MEASLES.)

Date.	Name of Vessel, Port of Registry, and Official Number.	Where from.	No. of Cases.	How dealt with.
	s.s. "Persia," of Greenock, 109,258	Calcutta - Bombay -	1	Left vessel in London, convalescent.
June 11	s.s. "Sicilia," of Glasgow, 113,933	Calcutta - Total -	4	Allowed to proceed home.

# TABLE XIX.

# (ERYSIPELAS.)

Date.	Name of Vessel, Port of Registry, and Official Number.	Where from.	No. of Cases.	How dealt with.
1913. June 14 Aug. 5 Oct. 10	s.s. "Thursby," of Liverpool, 73,751 - s.s. "Minnewaska," of Belfast, 124,674. s.s. "Holywood," of London, 132,732.	(?) New York Tyne - Total -	1 1 1 3	Removed to West Ham Infirmary, Left vessel in London. Removed to Poplar Hospital.

# TABLE XX.

# (CONTINUED FEVER.)

Dat	te.	Name of Vessel, Port of Registry, and Official Where from.		No. of Cases.	How dealt with.	
-191	18.	Topo Topo	Looked to "		District of the last	
Feb.	15	s.s. "Arabia," of Greenock, 105,587	Bombay -	1	Removed to Port Sanitary Hospital.	
**	18	s.s. "Queen Eleanor," of Glasgow, 106.019.	La Plata -	1	Removed to Port Sanitary Hospital.	
39	19	s.s. Worsley Hall," of Liverpool, 913,694.	Beira -	1	Ditto.	
May	28	s.s. "Clan Matheson," of Glasgow, 121,305.	Vizagapatam -	1	Removed to hospital at Tilbury.	
June	6	s.s. "King Howel," of London, 123,701.	Buenos Ayres -	1	Removed to Port Sanitary Hospital.	
11	20	s.s. "Ellik," of Bergen	Stettin -	1	Ditto.	
"	30	s.s. " Pomeranian," of Glasgow, 85,913	Montreal -	1	Ditto.	
"	30	s.s. "Nore" of Greenock, 123,531 -	Antwerp -	1	Ditto.	
July	14	s.s. "Crown of Granada," of Glasgow, 115,724.	Demerara -	1	Ditto.	
"	18	s.s. "Arabia," of Greenock, 105,587 -	Bombay -	1	Removed to Branch Sea- men's Hospital.	
Sep.	1	s.s. "Mantua," of Greenock, 127,544 -	Cronstadt -	1	Removed to Port Sanitary Hospital.	
,,	17	s.s. "Inventor," of Liverpool, 131,287 -	Calcutta -	1	Landed at Colombo.	
Oct.	20	s.s. "Argyllshire," of Glasgow, 129,581	Brisbane -	1	Removed to Port Sanitary Hospital.	
		Lordinal E - Salitable	Total	13		

# TABLE XXI.

# (PULMONARY TUBERCULOSIS.)

Date.	Name of Vessel, Port of Registry and Official Number.	Where from.	No. of Cases.	How dealt with,
1913.				
Jan. 5	(?)	(?)	1	Removed to Seamen's Hos
,, 9	s.s. "Nore," of Greenock," 123,531 -	Yokohama -	1	pital, Greenwich. Left vessel in London.
,, 25	s.s. "Mantua," of Greenock," 127,544	Sydney	1	Ditto.
Feb. 1	s.s. "Dunluce Castle," of London, 118,490.	Cape Town -	1	Ditto.
,, 10	AL 111 11 1 11 11 11 11 11 11 11 11 11 11	Yokohama -	1	Ditto.
,, 10	s.s. "Malwa," of Greenock, 127,543 -	Sydney	2	1 removed at Marseilles; died, and body buried a sea.
,, 12	s.s. "Geelong," of London, 118,426 -	Do	4	Left vessel in London.
,, 18	s.s. "Keemung," of Liverpool, 115,327	Vancouver -	1	Landed at Hong Kong.
March 9	s.s. "Garth Castle," of London, 129,078	Cape Town -	2	1 left vessel in London; died, and body buried a sea.
" 17		Buenos Ayres	1	Left vessel in London.
,, 20		Cape Town -	1	Landed at London.
,, 23	132,616. s.s. "Montezuma," of Liverpool, 110,604	St. Johns -	1	Left vessel in London.
,, 24		Brisbane -	1	Removed to Seamen's Ho
April 4		Cape Town -	1	pital, Greenwich. Landed at Southampton.
" 5	129,058. s.s. "Marmora," of Belfast, 116,011 -	Auckland -	2	Landed at Colombo.
,, 11	s.s. "Thomas," of Copenhagen	St. Thomas -	1	Landed at Havre.
,, 12	s.s. " Orari," of Plymouth, 119,350 -	Auckland -	1	Left vessel in London.
,, 12	s.s. "Highland Corrie," of London, 129,117.	Buenos Ayres	1	Ditto.
,, 16		Calcutta -	1	Died, and body buried
" 18	s.s. "German," of Southampton, 109,290.	Cape Town -	1	sea. Landed at Southampton.
,, 28		Durban	1	Ditto.
May 5		Buenos Ayres	1	Left vessel in London.
,, 7	132,595. s.s. "Cyclops," of Liverpool, 123,978-	Vancouver -	1	Died, and body landed
,, 8		Delagoa Bay -	2	Hong Kong. Left vessel in London.
" 11	132,616. s.s. "Mountford," of Liverpool, 110,568	St. Johns -	1	Ditto.
" 11	s.s. "Ning Chow," of Liverpool, 115,326	Yokohama -	1	Died, and body buried
" 15		East London -	2	1 landed at Southampton
,, 22	132,616. s.s. "Cluny Castle," of London, 118,323	Mauritius -	2	1 left vessel in London. 1 case removed to Chatha. Hospital; 1 left vessel
,, 27	s.s. "Limerick," of London, 109,983 -	Sydney	1	Died, and body buried
,, 29	s.s. "Waimate," of Plymouth, 105,276	Wellington -	1	sea. Left vessel in London.
" 29	s.s. "Garth Castle," of London, 129,078	East London -	1	Ditto.
,, 30		Rangoon -	1	Ditto.
	127,995.	Forward -	41	

Date.	Name of Vessel, Port of Registry, and Official Number.	Where from.	No. of Cases.	How dealt with.
1913.	Brought	forward	41	Juses
June 9	s.s. "Persia," of Greenock, 109,258 -	Bombay -	1	Left vessel in London.
" 9	s.s. "Persic," of Liverpool, 110,620 -	Sydney	1	Died, and body buried a
" 12	s.s. "Nore," of Greenock, 123,531 -	Yokohama -	1	Removed to Branch Sea
,, 14	s.s. "Malwa," of Greenock, 127,543 -	Sydney	1	men's Hospital. Landed at Colombo.
,, 18	s.s. "Alnwick Castle," of London,	Mauritius -	14	Removed to Herbert Hos
" 21	114,784. s.s. "Mantua," of Greenock, 127,544 -	Bombay -	1	pital, Woolwich. Remained on board th
,, 21	s.s. "Merton Hall, of Liverpool, 96,342	Calcutta -	1	vessel. Left vessel in London.
" 23	s.s. "Wilcannia," of London, 110,154	Sydney	1	Ditto.
,, 28	s.s. "Grantully Castle," of London,	Cape Town -	2	Landed at Southampton.
., 30	129,058. s.s. "Georgian," of Liverpool, 97,816	Baltimore -,	1	Left vessel in London.
,, 30	s.s. "Nile," of Greenock, 123,527 -	Yokohama -	1	Ditto.
July 1	s.s. "Mooltan," of Greenock, 115,397 -	Sydney	1	Ditto.
,, 3	s.s. "Braemar Castle," of London	Delagoa Bay -	1	Landed at Southampton.
,, 5	108,381. "s.s. "Omrah," of Glasgow, 108,782 -	Brisbane -	2	1 landed at Naples, 1 lef
,, 8	s.s. "Cayo Romano," of London,	Cuba	1	vessel in London, Removed to Seamen's Hos
,, 8	132,614. s.s. "Scotian," of Glasgow, 129,547 -	Montreal -	1	pital, Greenwich. Landed at Havre.
,, 9	s.s. "Demodocus," of Liverpool,	Yokohama -	1	Left vessel in London.
,, 9	131,435. s.s. "Arabia," of Greenock, 105,587	Bombay -	1	Ditto.
,, 9	s.s. "Ixion," of Liverpool, 135,431 -	Vancouver -	2	Died, and bodies buried a
,, 9	s.s. "Carmarthenshire," of Southamp-	Mazagan -	1	Patient remained on boar
,, 9	ton, 98,863. s.s. "German," of Southampton,	Cape Town -	1	the vessel. Landed at Southampton.
,, 10	109,290. s.s. "Kasan," of Libau	Libau	1	Left vessel in London.
,, 15	s.s. "Palawan," of Greenock, 102,400 -	Yokohama -	1	Removed to Haslar Hos
,, 16	s.s. "Shropshire," of London, 32,607 -	Brisbane -	3	pital. Left vessel in London.
,, 30	s.s. Minnehaha," of Belfast, 110,520 -	New York -	1	Ditto.
August 1	s.s. "Demosthenes," of Aberdeen,	Brisbane -	1	Ditto.
,, 5	129,362. s.s. "Anchoria," of Glasgow, 129,598 -	Calcutta -	1	Ditto.
" 5	s.s. "Otway," of Glasgow, 128,282 -	Brisbane -	1	Ditto.
,, 5	s.s. "Nagoya," of Greenock, 135,323 -	Calcutta -	2	Removed to Royal Herber
., 7	s.s. "Galway Castle," of London,	Cape Town	1	Hospital, Woolwich. Landed at Plymouth.
,, 11	132,616. s.s. "Medic," of Liverpool, 110,573 -	Sydney	1	Left vessel in London.
,, 14	s.s. "Nubia," of Greenock, 102,394 -	Yokohama -	1	Died, and body buried at ea
Aug. 16	s.s. "Otranto," of Belfast 124,675	Brisbane -	1	Left vessel in London.
" 18	s.s. "Arzila," of Liverpool, 124,097 -	Tangier -	1	Landed at Casa Blanca.
,, 19	s.s. "Garth Castle," of London, 129,078.	East London -	2	Left vessel in London.
		Forward -	96	

Date.	Name of Vessel, Port of Registry, and Official Number.	Where from.	No. of Cases.	How dealt with,
1918.	Brought	forward	96	TRIL
Aug. 23	s.s. "Corinthic." of Liverpool, 115,296	Wellington -	1	Removed to Branch Sea-
,, 30	s.s. "Benalla," of Greenock, 135,322 -	Sydney -	2	men's Hospital.  1 died, and body buried at sea. 1 left vessel in
., 31	s.s. "Persia," of Greenock, 109,258	Bombay -	1	London. Left vessel in London.
Sept. 1	s.s. "Benalla," of Glasgow, 135,322	Sydney	2	1 died at sea. 1 left vesse in London.
" 1	s.s. "Mantua," of Greenock, 127,544	Cronstadt -	2	Isolated on board.
,, 9	s.s. "Maloja," of Belfast, 132,012	Sydney	1	Landed at Bombay.
,, 13	s.s. "Orama," of Glasgow, 132,989	Brisbane -	3	1 died and body buried at sea. 2 left vessel in
,, 14	s.s. "Scotian," of Glasgow, 129,547	Montreal -	1	London. Landed at Havre.
" 15	s.s. "City of Marseilles," of Liverpool,	Calcutta -	1	Left vessel in London.
,, 16	135,436. s.s. "Beltana," of Greenock, 131,853	Sydney -	1	ditto
" 25	s.s. "Braemar Castle," of London,	Delagoa Bay -	1	Landed at Delagoa Bay.
,, 29	108,381. s.s. "Ophir," of Glasgow, 98,673 -	Brisbane -	1	Died and body buried at sea
,, 30	s.s. "Arabia," of Greenock, 105,587	Bombay -	1	Landed at Marseilles.
Oct. 4	s.s. "Flintshire," of London, 105,833	Portland	3	Landed at Colombo.
,, 7	s.s. "Oxfordshire," of Liverpool,	(Oregon) Rangoon -	1	Landed at Port Said.
" 10	131,454 s.s. "Borneo," of Newcastle, 104,287	Calcutta -	1	Allowed to proceed home.
" 11	s.s. "Ballarat," of Greenock, 131,851	Sydney -	1	Died, and body buried at sea
Oct. 15	s.s. "Galician," of Southampton,	Cape Town -	1	Left vessel in London.
,, 18	113,334. s.s. "Nankin," of Greenock, 131,857	Yokohama -	1	Landed at Colombo.
,, 18	s.s. "Manora," of Glasgow, 133,129	Calcutta -	1	Landed at Calcutta.
,, 22	s.s. "Tenasserim," of Glasgow,	Rangoen -	1	Landed at Port Said.
,, 22	121,262. s.s. "Persic," of Liverpool, 110,620 -	Sydney -	1	Died, and body buried at sea
,, 25	s.s. "San Miguel" (Norwegian) -	Las Palmas -	1	Left vessel in London.
Nov. 1	s.s. "Sicilian," of Glasgow, 111,225	Montreal -	2	1 case landed at Havre,
" 2	s.s. "Nellore," of Greenock, 135,325	Calcutta -	1	left vessel in London. Died on board.
,, 8	s.s. "Montreal," of Liverpool,	Montreal -	1	Left vessel in London.
,, 9	113,373. s.s. "Eden Hall," of Liverpool,	Smyrna -	1	ditto
,, 13	87,841. s.s. "Ausonia," of Liverpool, 129,735 -	Montreal -	2	1 case landed at Plymouth,
,, 13	s.s. "Nore," of Greenock, 123,531 -	Yokohama -	3	left vessel in London. Removed to Chatham Roys
,, 15	s.s. "Wiltshire," of London, 132,675 -	Sydney -	1	Naval Hospital. Left vessel in London.
,, 16	s.s. "China," of Belfast, 104,467 -	Shanghai -	1	Removed to Devonport Roya
,, 24	s.s. "Omrah," of Glasgow, 108,782 -	Brisbane -	3	Naval Hospital. Left vessel in London.
,, 25	s.s. "Montrose," of London, 108,351 -	Montreal -	3	Re-shipped to Austria.
	al less state and and	Forward -	144	drug trace   th

Date.		Name of Vessel, Port of Registry, and Official Number.	Where from,	No. of Cases.	How dealt with,
19	13.	Brought	forward -	- 144	Such melification is
Dec.	3	s.s. "Marmora," of Belfast, 116,011 -	Sydney	- 1	Died, and body buried as
11	9	s.s. "Syria," of Glasgow, 113,959 -	Yokohama	- 2	1 case landed at Port Said. 1 left vessel in London.
"	13	s.s. "Cyclops," of Liverpool, 123,978 -	Vancouver	- 1	Left vessel in London.
11	24	s.s. "Ausonia," of Liverpool, 129,735 -	Portland	1	ditto.
1)	27	s.s. "Medina," of Greenock, 131,849 -	(Maine). Sydney -	- 1	ditto.
17	29	s.s. "German," of Southampton,	Cape Town	- 1	Proceeded to Germany.
		109,290.	Total	- 151	to smelli O lesiled of

## TABLE XXII.

# Tuberculosis (other than Pulmonary).

Date	e.	Name of Vessel, Port of Registry, and Official Number.	Where from		Number of Cases.	How dealt with.
191	3	All are about the			and the visit of	amolt House of
March	18	s.s. "Talthybius," of Liver- pool, 131,411.	Vancouver	- 1	Tubercular Perito- nitis.	Removed to Branch Sea- men's Hospital, Royal Albert Dock.
July	22	Training Ship "Warspite," Greenhithe.	lying off	1	Tubercular Me-	Removed to Ship's Hos- pital on shore.
August	26	s.s. "Moldavia," of Green- ock, 117,382.	Sydney	- 1	Tubercular Adeni-	Remained on board the vessel.
33	29	s.s. Clan Macintyre," of Glasgow, 115,775.	Madras	- 1	Tubercular Perito- nitis.	Ditto.
Sept.	2	s.s. "Persia," of Greenock, 109,528.	Bombay	- 1	Tuberculous elbow	Left vessel in London.
Nov.	16	s.s. "China," of Belfast, 104,467.	Shanghai	- 1	Tubercle of kidney	Removed to Devonport Royal Naval Hospital.
Dec.	1	s.s. "Nile," of Greenock, 123,527.	Yokohama	- 1	Tuberculous knee -	Left vessel in London.
		sends threaty lieuway,	France but	7	of sealth to all the	topical brown the maintain to

## TUBERCULOSIS.

The Local Government Board have revoked the Regulations issued in 1908 and 1911 relating to Tuberculosis, and have issued a General Order dated December 19th, 1912, which came into force on the 1st February, 1913. In this General Order no specific mention is made applying it to Port Sanitary Authorities, but it is obvious that in the interests of the public health the districts of Port Sanitary Authorities should not be exempt from the provisions of this Order.

Every Medical Practitioner, unless acting as a School Medical Inspector, attending on or called in to visit any person, shall within 48 hours after first becoming aware that such person is suffering from Tuberculosis, send a notification to the Medical Officer of Health for the district within which the place of residence of the person is situate at the date of notification.

Such notification is to apply to all cases of Tuberculosis, and not merely to those of Pulmonary Tuberculosis. This information will be supplied chiefly by the Assistant Medical Officers of this Authority, who visit incoming vessels on their arrival from "foreign." Persons from vessels, landing and coming to an Institution for treatment will be notified by the Medical Officer of such Institution, so that enquiries may be made in each case and such steps taken as are necessary or desirable for investigating the source of infection or preventing the spread of infection and for removing conditions favourable to infection. The names and addresses of persons arriving in the Port of London will be taken whenever they can be obtained, and they will be notified to Medical Officers of Health of the districts to which such persons are proceeding. No legal power is possessed under this Order to compel the supplying of correct information as to names and addresses, but it is not anticipated that much difficulty will be met with in obtaining this information.

In each case steps will be taken to disinfect the quarters occupied and their contents, and to isolate whenever practicable any person remaining on the ship and suffering from this disease.

#### PULMONARY TUBERCULOSIS.

The s.s. "Montezuma," of Liverpool, 110,604, arrived on the 21st February from St. Johns. One of the stewards was landed in a moribund condition from advanced pulmonary tuberculosis.

It appeared from the history that symptoms of this disease developed two years ago, and, acting on medical advice, he went to sea for the benefit of his health.

He had been on various ships, and had always been under treatment by the surgeon.

It used to be a not uncommon practice when a young man developed symptoms of pulmonary tuberculosis, to advice him to go to sea, generally as a steward. The steward spends most of his time below decks, sleeping in the "Glory Hole," where the ventilation and other sanitary conditions are most unsuitable for anyone suffering from this disease, and the result can only be to hasten the progress of the disease. Apart from this, there is the obvious danger of infecting his fellow-stewards, and it is desirable that such advice should no longer be given.

The following figures show the difference produced by the application of the Order to Port Sanitary Authorities in the number of notifications received before and after the issue of the Order:

No. of cases reported 1912 ... ... 71 ... 
$$151$$
 Pulmonary.  $\frac{7}{158}$  Other kinds.

## COMPULSORY NOTIFICATION OF INFECTIOUS DISEASE.

Chicken-pox, also Cerebral-Spinal Meningitis, commonly known as Spotted Fever, were notifiable diseases until the 31st December, 1913.

## TABLE XXIII.

(CHICKEN-Pox.)

Dat	e.	Name of Vessel, Port of Registry, and Official Number.	Where from,	Number of Cases.	How dealt with.
191	3.	Till the Paradian in the Control of	- 022,001	popular l	
Jan.	6	s.s. "Egypt," of Greenock, 105,581 -	Bombay -	1	Landed at Marseilles.
March	5	s.s. "China," of Belfast, 104,467 -	Do	1	Removed to Port Sanitary
25	8	s.s. "Palawan," of Greenock, 102,400 -	Antwerp -	1	Hospital. Isolated on board.
29	19	s.s. "Neuralia," of Glasgow, 133,081 -	Calcutta -	1	Landed at Aden.
**	22	s.s. "Morea," of Glasgow, 128,235 -	Sydney -	1	Isolated on board.
27	27	s.s. "Morea," of Glasgow, 128,235 -	Do	1	Landed at Marseilles.
23	28	s.s. "Persia," of Greenock, 109,258 -	Bombay -	2	Removed to Port Sanitary
April	5	P. and O. "Go Down," Royal Albert		1	Hospital. Isolated in adjoining premises.
**	10	Dock. s.s. "Arcadia," of Belfast, 93,172 -	Bombay -	1	Landed at Bombay.
May	8	s.s. "Galician," of Southampton, 113,834	East	1	Landed at Southampton.
"	14	s.s. "Himalaya," of Greenock, 99,776 -	London. Calcutta -	2	1 removed to Port Sanitary
29	26	s.s. "Mombassa," of Glasgow, 96,082 -	Do	2	Hospital, 1 isolated on board. Removed to Port Sanitary
June	20	s.s. "Nyanza," of Greenock, 123,529 -	Antwerp -	1	Hospital. Convalescent on arrival in London.
22	21	s.s. "Borneo," of Newcastle, 104,287 -	Calcutta -	3	Ditto.
- 11	27	s.s. "Nyanza," of Greenock, 123,529 -	Antwerp -	6	Removed to Port Sanitary Hospital.
July	15	s.s. "Inanda," of Aberdeen, 118,187 -	Beira -	1	Isolated on board the vessel.
Aug.	5	s.s. "Otway," of Glasgow, 128,282 -	Brisbane -	1	Left vessel in London, con- valescent.
17	28	s.s. "City of Lucknow," of Glasgow, 106,040.	Antwerp -	1	Isolated on board the vessel.
22	30	s.s. "City of Lucknow," of Glasgow,	Hamburg -	1	Patient recovered.
Sept.	1	s.s. "Mantua," of Greenock, 127,544 -	Cronstadt -	1	Left vessel in London, con- valescent.
22	6	s.s. "Mowe, of Bremen - '	Bremen -	1	Removed to Port Sanitary Hospital,
"	16	s.s. "Beltana," of Greenock, 131,853 -	Sydney -	3	Left vessel in London, con- valescent,
Oct.	15	Training ship "Cornwall, lying off Pur	fleet	1	Removed to Wennington Hospital.
**	31	s.s. "Maidan," of Liverpool, 131,241 -	Calcutta -	1	Removed to Tilbury Hospital.
Nov.	8	s.s. "Orvieto," of Belfast, 129,628 -	Brisbane -	1	Left vessel in London, con- valescent.
Dec.	19	s.s. "Otranto," of Belfast, 124,075 -	Do	1	Ditto.
		or tem and the Police Rate	Total -	38	

#### TABLE XXIV.

## (BERI-BERI.)

I herewith give a record of the cases of this disease met with. Seven vessels have reported 27 cases during the voyage:—

Date of Arrival.	Name of Vessel, Port of Registry, and Official Number.	Where from.	Number of Cases	
1913.				
January 24	s.s. "Nyanza," of Greenock, 123,529	-	Yokohama -	. 4
March 17	s.s. "India," of Liverpool, 106,839 -	-	San Francisco	6
April 4	"Stromsbo" (Norwegian)	-	Peru	10
June 7	"Alice A. Leigh," of Liverpool, 96,349	-	Iquique	2
August 5	s.s. "Jason," of Liverpool, 115,297		Hankow	3 (1 fatal)
September 16	s.s. "Perseus," of Liverpool, 127,924		Yokohama	1
,, 28	s.s. "Arabia," of Greenock, 105,587	-	Bombay	1
				27

#### ANTHRAX.

On 1st May, I received information respecting a case of Anthrax. The patient was reported to have been at work on the s.s. "Mantua" in Tilbury Docks. On enquiries being made it was ascertained that three days before being taken ill the patient had handled skins.

On the 10th May another case of Anthrax was notified. The patient was at work in the Millwall Dock, engaged in unloading the s.s. "Perm." On or about the 26th April the patient scratched his finger, and on the 7th May became ill and was diagnosed as suffering with Anthrax.

He had handled bales of horse-hair, and the ship carried horses, but no information is available that he had handled hides.

Both of these cases subsequently recovered.

# LONDON (NOTIFICATION OF GLANDERS) ORDER, 1907.

On the 28th November, I received information respecting a case of glanders in a horse at the London Dock.

All necessary measures of disinfection were carried out.

#### TABLE XXV.

#### HOSPITAL.

NUMBER OF CASES ADMITTED, COST OF MAINTENANCE, &C.

at	ients remainin	g in H	lospita	al on	31st I	ecer)	nber, 19	12		- 8
							Admitted.	Discharg	ed, Died,	Remaining under treatment
	Cholera -		-		-	-	0	0	0	0
	Cholera (sus	pected	)	-	-	-	0	0	0	0
	Bubonic Plag	gue				-	0	0	0	0
	Ditto (suspe	cted)	-		4	-	2	2	0	0
	Small-pox	-	1. 18	-	- 36	-	9	8	1	0
	Scarlet Fever	r			Spil s		3	- 3	0	0
	Enteric Fever	r -		-	-	-	29	31	1	5
	Continued Fo	ever	-		-		9	8	1	0
	Diphtheria					-	7	6	0	1
	Measles -			-		-	18	18	0	0
	Erysipelas	- 1	-		-		0	0	0	0
	Chicken-pox	-	-	-	-	-	13	13	0	0
	Other Diseas	es		-		-	1	. 1	0	0
		itan					- 01	-	_	-
	]	Cotals		-	-		91	90	3	6
R	temaining in I	Hospita	l on 3	1st D	ecemb	per,	1913			- 6
	otal number o	-								- 1,624
	verage numbe									- 17.84
								-		
	verage daily 1					100		-	4	- 4.01
A	verage daily	cost of	maint	enand	e per	patie	ent			1s. 5.7d.
A	verage total c	ost of	mainte	enanc	e per	patie	nt		£1	6s. 4·5d.

The outdoor lamps at the Hospital have been replaced by new incandescent gas lamps, at a cost of 10%.

#### FOOD INSPECTION.

The work of Food Inspection in the Port of London has been carried out in accordance with the Regulations made by the Local Government Board, under the Public Health (Regulations as to Food) Act, 1907.

The Public Health (Unsound Food) Regulations, 1908, came into force on the 1st October, 1908, and the Public Health (Foreign Meat) Regulations, 1908, became operative on the 1st January, 1909, and have, therefore, been in force for a period of five years.

The extended powers conferred by these Regulations upon Port Sanitary Authorities have enabled your officers to perform the duties of Food Inspection in a more thorough manner, and the results have proved the necessity for the additional powers under the Regulations and the importance of this branch of the work of the Port Sanitary Authority.

Prior to the year 1909 the only powers of food inspection possessed by this Authority were under Section 47 of the Public Health (London) Act, 1891, and the work was carried out entirely by three Food Inspectors, who devoted the whole of their time to this work.

This staff was found inadequate to carry out the provisions of the Regulations made by the Local Government Board, therefore three additional Sanitary Inspectors were appointed, and the duties of assisting with Food Inspection were added to the duties hitherto performed by the Sanitary Inspectors.

The organisation for the performance of food inspection for the Port of London is as follows:

The district is divided into three, to each of which a Food Inspector is allotted, and he is responsible to me for the inspection of all food stuffs within his district.

The districts are as follows :-

# DISTRICT "A" (INSPECTOR SPADACCINI).

Sub-District 1. Royal Victoria Dock.

2. Royal Albert Dock.

, 3. East India Dock.

# DISTRICT "B" (Inspector Anderson).

Sub-District 1. London, St. Katharine's and Regents Docks.

2. West India and Millwall Docks.

# DISTRICT "C" INSPECTOR BAILEY).

Sub-District 1. Surrey Commercial Docks.

 Vessels discharging in the district of the Port Sanitary Authority not within a dock.

3. Tilbury Dock.

Each district is divided up into sub-districts which is in charge of a Sanitary Inspector whose duties are to inspect all vessels within their districts as well as all buildings, dwellings, &c., situated on the land within their district. In addition they perform routine work of food inspection under the direction of the Food Inspector.

At times of pressure, the Sanitary Inspectors are engaged for portions of the day in examining food stuffs only, and during the past year it has been necessary even to utilise the services of the Assistant Medical Officers in their spare time for this purpose.

The five Assistant Medical Officers have been appointed by the Corporation, with the consent of the Local Government Board, to act in the execution of these regulations, either in the place of, or as Assistants to the Medical Officer of Health; whilst the Food and Sanitary Inspectors have been similarly appointed to act under my direction in the exercise of any such powers, or in the discharge of any such duties as I may direct in the performance of these regulations.

Therefore, instead of the food inspection being carried out by three Food Inspectors, as heretofore, the staff engaged upon the work now consists of—

Three Food Inspectors,
Ten Sanitary Inspectors,
Five Assistant Medical Officers,

And in spite of the increased staff engaged it is only by temporarily transferring Inspectors from one district to another that foodstuffs can be inspected so as to avoid delay in their delivery to the importers.

The following figures will serve to illustrate some of the additional work carried out as regards Food inspection.

During the quinquennium preceding the introduction of the before-mentioned Regulations, the annual numbers of seizures of unsound food were:—

Year.	-			Nun	nber of seizures.	
1904	-	-	-	-	559	
1905	inter to	II.	d1 42 3	412	469	
1906	atil	rd House	-	10 300	450	
1907	-	-	-	-	455	
1908	-	-	-	-	434 Annual average 473.4.	

Whereas during the succeeding quinquennium the annual numbers were :-

Year.				Nu	mber of seizures.
1909		-	-	-	599
1910	are pro	-	nree2	12	827
1911	-	-	-	-	750
1912	-	-	1-	-	705
1913	-	-	-	-	780 Annual average 732.2.

Further the weight of food stuffs seized and destroyed as unfit for human food in the year preceding the introduction of the Regulations, namely 1908, was 992 tons, whereas in the year 1912 it totalled 3,758 tons, and in 1913, 2,845 tons.

These figures, however, do not express the additional work performed by your officers, but simply the increase in the amount of Unsound Food seized and destroyed.

Additional work by way of inspection naturally results in a corresponding increase of office work.

It has become necessary to redistribute the duties in the office in order that the First Assistant Clerk may devote his whole time to the clerical work arising from Food Inspection.

# FOOD INSPECTION AT QUEENBOROUGH.

The inspection of food at Queenborough, under the Unsound Food and Foreign Meat Regulations, during the first ten months of the year was carried out by Dr. E. V. Legge, the Assistant Medical Officer stationed at Sheerness, with the occasional assistance of an Inspector. During the last two months one of the Assistant Medical Officers attended on two nights a week.

Large quantities of fresh meat from Flushing arrive at Queenborough daily, at about 6 p.m., and in order to avoid delay in forwarding same to its destination it is necessary that the inspection should be carried out immediately on arrival.

The meat seized and destroyed on this station during the year was :-

Pig-carcases	stulfs cain	fice)	di sa iro	ne (2) doi	1116 1	1
Pig-livers -			, restro	the -imp	01 70	610
Pig-lungs -				-	ter in	4
Pig-spleens	To prays at	lateral l	i olasvas	n day n	Surad	1
Pig-plucks	-		-	.railte	quel E	16
Sheep-livers	into these			light o	bod. I	363
Sheep-lungs	individual.		philes or	the line		2
Sheep-plucks	or bourcem	7 102 800	of seinn	PID-OTA	n leve	5
Calf-livers -			-			1

The total weight being 1 ton 0 cwts. 3 qrs. 25 lbs., all of which bore the Official Certificate of the Netherlands Government, as approved by the Local Government Board.

A parcel consisting of "scrap meat" imported in contravention of the Regulations was re-exported. (See page 55.)

# TABLE XXVI.

QUANTITY AND DESCRIPTION OF UNSOUND FOOD SEIZED AND DESTROYED FOR THE YEAR ENDING 31ST DECEMBER, 1913.

	Or pac	Su		uantit eight.	ties		oose ticles.	Approximate Total weight of Goods destroyed.				
MEAT— Fresh and Frozen—	No.	Description.	Tons.	cwts.	qrs.	lbs.	No.	Description.	Tons.	cwts.	qrs.	lbs
Beef	223 {	quarters and crops					530	pieces	31	13	0	18
Mutton and Lamb Veal, Pork and Offal -	6,807 2,883	carcasses					227	various	134 69	5 19	3 2	14
Preserved—				***	***					14	3	25
Tinned Smoked and Salted	41 65	cases casks,&c.		1	3	4	113	tins hams	14	0	0	2
Sundry	30	various	***			***			0	14	2	1
Frozen Tinned	80	crates					86 1,029	rabbits tins	2 0	1 18	0	1 1
OULTRY and GAME-	-	200					-					
Frozen	6	cases					10	various	0	2	2	2
Preserved, Dried	115	various							1 0	17	0	1
,, Tinned and Bottled - ,, Frozen	2	cases	***				913	tins, &c.	0	3	0	1
Wet	2,228	boxes			***				260	14	1	1
RUIT— Fresh	2,874	various		12	2	24			93	18	3	1
Preserved, Dried Tinned and Bottled -	12,085	various cases, &c.	12				416	tins	449 15	10	0	1 1
" Jam and Marmalade -	2	cases					2 1000	tins	0	2	2	2
EGETABLES— Fresh	215	bags, &c.							9	0	0	
Preserved, Dried		···		6	1	23	166	tins	0	9	1	1
UTS- Whole	11,380	bags							571	17	2	
Sundry	1	case							0	1	2	
ROVISIONS— Tea	93	cases				1000		-	5	5	1	1
Coffee	34	bags							2	15	0	
Butter, Cheese, Lard, Margarine	3	cases	1	1	0	19	17,753	cheese	553	11	2	2
Condensed Milk Prepared Foods	1,979	cases				** /			40	0 7	3 2	
Biscuits and Confectionery -	1,423	cases							27	15	1	1
Sugar		***		***				· · · · · ·				
Wheat, Maize, Barley, Rice, &c.		3	161	5	1	19			161	5	1	
EAL and FLOUR			1	7	1	17			1	7	1	1
ONDIMENTS and SPICES -												
DRIGO	41/2	cases		***	***	•••			0	7	0	
UNDRIES	50	cases, &c.		***		***	298	bottles	2	0	3	1
		cases, ac.		***			220	ootetes				
TOTAL	42,673	various	176	14	3	22	31,584	various	2,458	0	2	2
pproximate Total weight of Good	s destro	yed during	the '	year	1909				1,415	7	0	2:
23 29	11-1	>>	1		1910 1911	-			2,483 1,408	6 4	2 3	1
" "		33			1912	-		-	3,758	7	1	3
" "		11	1		1913				2,458	0	2	2

TABLE XXVII.

DESCRIPTION OF MEAT DESTROYED.

YE	AR.		7 0	BEE	F.		100	Mut	TON.		VEAL	, Poi	εк, (	)FFAL.		TINE	NED.			MOKE			38	Тота		
			Tons	civts.	qrs.	lbs.	Ton	s cwi	ts. q	rs. lbs.	Ton	is civi	s. qr	s. Us.	Tons	cuts.	qrs.	lbs.	Tons	civits	. qrs	. lbs.	Tons	cwts.	qrs.	lbs
905			335	16	0	27	361	14	1	5	8	17	3	24	2	0	0	12	0	. 4	1	4	708	12	3	1
906			136	5	3	24	94	15	0	8	22	7	0	10	9	0	0	26	0	0	3	14	262	0	0	2
907			47	5	2	16	63	6	2	24	8	11	1	6	2	14	4	5	63	8	0	22	185	6	3	1
908			47	14	2	6	22	12	2	10	1 Pork	3 and Ve	0	8	3	12	2	8	2	19	1	13	78	2	0	1
909			19	11	3	7	21	3	1	17		14	7	23 15	2	10	2	19	0	2	3	22	113	9	1	1
910			1,100	0	0	27	50	8	1	13	3 Offal-	- 8-1		13 19	3	2	2	2	32	13	1	6	1,234	1	3	2
911	g		341	6	3	18	25	9	1	6		and Ve		19	6	8	2	5	3	18	2	0	462	11	0	
912			58	3	0	3	14	3	2	3			2	13 10	5	17	3	17	3	2	2	16	108	11	3	
913		end Spire	31	13	0	18	134	5	3	14	Offal	and Vo	1	2 14	1	14	3	22	14	14	3	6	252	8	1	2
Cotal for n	ine yea	rs	2,117	17	2 .	6	787	19	0	16	341	9	2	16	37	2	2	4	121	4	3	19	3,405	13	3	

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#### TABLE XXVIII.

The following Table\* shows the number of carcases of Frozen Mutton and Lamb imported into the Port of London from Australia, New Zealand and South America since the commencement of the trade in the year 1880.

Year.		Australia.		New Zealand.		South America.		Total No. of carcases.
1880		400		-		Man march more		400
1881		7,275		_		_		7,275
1882		57,256		8,839	****	0.5		66,095
1883		63,733	***	120,893		17,165		201,791
1884		111,745		412,349		108,823		632,917
1885		95,051		492,269		190,571		777,891
1886		66,960		655,888		331,245		1,054,093
1887		88,811		766,417		242,903		1,098,131
1888		112,214		939,231		169,282		1,220,727
1889		86,547		1,068,286		167,936		1,322,769
1890		207,984		1,533,393		124,413		1,865,890
1891		334,684		1,894,105		160,340		2,389,129
1892		449,488		1,505,377		166,508		2,121,373
1893		636,917		1,821,595		109,808	***	2,567,820
1894		939,360	***	1,947,609		171,802		3,058,771
1895		969,943		2,412,331		142,038	***	3,542,312
1896		1,565,360		2,211,895		245,573		4,022,828
1897	***	1,338,964		2,703,845		161,744		4,204,553
1898		1,238,653		2,784,101	H	201,895		4,224,649
1899	***	1,189,563		8,250,100		289,708		4,679,866
1900		906,766		8,157,060	***	271,432		4,335,258
1901		1,194,157		3,334,119		842,525		4,770,801
1902		649,929		3,668,061	***	411,913		4,729,903
1903		449,090		4,566,257		650,004		5,665,351
1904		413,322		3,695,088		746,096		4,854,506
1905		1,190,584		3,479,757		1,102,282		5,772,623
1906		1,839,677		3,818,506		932,986		6,091,169
1907		1,762,047		4,353,088		1,002,403		7,117,538
1908		1,214,753		3,833,012		1,435,137		6,482,902
1909		1,583,928		4,587,217		1,258,007		7,429,152
1910	11	2,684,274		4,842,959		1,095,555		8,572,788
1911		2,880,572		4,513,457		1,126,303		7,970,332
1912		1,545,917		4,839,401		1,305,419		7,690,737
1913		2,381,357		5,092,054		865,703		8,339,114

#### BEEF.

1,996,105 quarters of beef from Australia, New Zealand and South America were imported into the Port of London during the year, compared with 2,028,497 in the year 1912, and represented 35.6 per cent. of the total quantity imported into the United Kingdom from those countries.

Of the total quantity landed in the Port of London 31 tons 13 cwts. 0 qrs. 18 lbs., were seized by your officers as unfit for human food, and comprised 233 quarters and crops and 53 pieces.

8 tons 10 cwts. was the largest quantity seized on any ship.

<sup>\*</sup> Extracted with other particulars of Colonial Imports from Meat Trade Returns published by W. Weddel and Co., Ltd., 17, St. Helen's Place, E.C.

#### MUTTON AND LAMB.

The carcases of frozen mutton and lamb from Australia, New Zealand and South America, landed in the Port of London during the year, totalled 8,339,114, against 7,690,737 in 1912, and represented 64.38 per cent. of the whole quantity landed in the United Kingdom from those countries.

134 tons 5 cwts. 3 qrs. 14 lbs., comprising 6,807 carcases and 227 pieces, were seized as unfit for human food, being upwards of 120 tons in excess of the previous year's seizures.

The largest quantity seized on any vessel was 102 tons 9 cwts. 1 qr. 14 lbs., representing 5,295 carcases, and sundry pieces which arrived in bad condition on a vessel which had been in collision off the coast of Spain.

The s.s. "Tainui," from New Zealand, arrived in the Port of London on the 5th June, having been in collision off the coast of Spain.

The contents of No. 1 Hold, which contained 22,000 carcases of mutton, were thrown overboard in the Bay of Biscay.

Some water had got into No. 2 Hold, and on discharging the vessel in the Royal Albert Dock, 5,289 carcases and 36 cwts. of pieces of mutton, 94 crates of kidneys, and 6 crates of sweetbreads were found unfit for human food, and were seized and destroyed.

Considerable quantities of fresh mutton and lamb also arrived from the Continent, but in no instance was it found necessary for your officers to seize any.

#### PORK.

On the whole the pork imported was found to be in good condition. Although large quantities were imported, only four carcases were seized, and they were found to be affected with tuberculosis.

Particulars of these appear in Table XXXIII.

In addition to the above, 6 pieces, forming part of a ship's stores, and 85 pieces on a vessel which returned to the port in a damaged condition, were seized as unfit for human food and destroyed.

The total weight was 16 cwts. 0 qrs. 26 lbs.

#### PIG-CARCASES FROM CHINA.

The s.s. "Brodstone," from Hankow, arrived on the 21st March with 880 pig-carcases for delivery in London.

The importers decided ultimately to take the carcases to Liverpool for which port the vessel sailed, with the carcases on board, on the 2nd April, the Medical Officer of Health for Liverpool being notified of the fact.

#### OFFAL.

This class of meat imports makes great inroads upon the time of your officers.

The goods arrive in considerable quantities, are usually packed in boxes, crates or bags, and much arrives in a frozen condition, which necessitates the thawing out of the meat before a thorough examination can be made.

The total quantity seized amounted to 69 tons 3 cwts. 0 qrs. 14 lbs., being nearly 50 tons in excess of the quantity seized the previous year, and was made up as follows:—

	Tons.	Cwts.	Qrs.	Lbs.
Livers, Ox—24 boxes, 21 crates, 8 bags,				
222 loose	2	5	2	15
" Calf—1 bag, 12 loose	0	1	0	6
" Sheep—1 crate, 19 boxes, 4,495 loose	2	5	0	8
" Pig—610 loose	0	15	1	26
Kidneys —290 crates, 28 cases, 23 bags,				
984 boxes	11	0	1	13
Sweetbreads —26 crates, 7 boxes, 1 bag -	1	7	0	13
Hearts, Ox-292 cases, 10 bags, 59 loose -	7	9	1	5
" Sheep—15 bags	0	7	3	1
Plucks, Ox-2 ,,	0	1	0	14
" Sheep—626	0	17	0	4
" Pig—16	0	0	1	20
Lungs, Sheep—11	0	0	0	12
" Pig—4 - · · ·	0	0	0	9
Tongues, Ox and Calf-178 crates, 9 bags,				
3,853 loose	18	11	3	0
Cheeks, Ox-509 cases, 2 baskets, 48 bags,				
3 loose	14	14	2	17
Tripe —31 bags, 7 boxes	1	0	0	1
Tails, Ox-184 cases, 143 crates, 9 bags,				
19 loose	8	0	2	7
Calves' Heads—5	0	0	1	23
Weasands —9 bags	0	4	2	5
Sundries —4 ,,	0	0	2	1
Total weight -	69	3	0	14

The following table shows the result of the examination of some consignments of Livers.

## TABLE XXIX.

Date. 1913.		Name of Vessel.		Where from		Where lying.	No. of diseased or unsound livers seized.	Percentage of whole consignment
191	3.	The diameter of the state of	THE REAL PROPERTY.	OX-LIVER	s.	and altropaid from	30 sealor	id!
Feb.	26	s.s. "Highland Pride"		Argentina		Royal Albert Dock	. 38	47.5
March	11	s.s. " Highland Warrior ".		Ditto		Ditto	. 58	72.5
19	24	s.s. " Niwaru"		Australia		Ditto	19	63-3
July	21	s.s. "Gulf of Venice"		Argentina .		Ditto	29 boxes	18-23
Nov.	8	s.s. "Rotorua"		New Zealand		Ditto	8	40
		Thomas della land	s	HEEP-LIVE	RS.		Line !	a resulting
March	11	s.s. "Anglian"		Boston		Royal Albert Dock	587	52
17	24	s.s. " Cambrian"		Ditto		Ditto	1,007	84.62
April	29	s.s. "Kingstonian"		Ditto		Ditto	16 boxes	32
"	29	s.s. "Star of Scotland"		Australia		Ditto	208	
1)	29	s.s. " Suffolk "		Ditto		Ditto	175	28
May	9	s.s. "Argyllshire"		Ditto		Ditto	360	60
Oct.	21	s.s. " Argyllshire"		Ditto		Ditto	818	30
Nov.	18	s.s. " Pera"		Ditto .		Ditto	517	22.4
Dec.	2	s.s. "Suffolk"		Ditto		Ditto	403	

#### VEAL.

Only one piece of veal, weighing 4 lbs., was seized as unfit for food.

On the 23rd October, 2 calf-carcases, forming part of a consignment which arrived at Queenborough from Flushing, were found to fall below the minimum weight, namely  $47\frac{1}{3}$  lbs., fixed by the Netherlands Government, for carcases of calves without the head, skin and abdominal intestines, intended for export in Great Britain and Ireland.

A Notice was therefore served upon the importers, under Art. III (5) of the Public Health (Foreign Meat) Regulations, 1908, forbidding the removal of the meat for any purpose other than exportation.

The meat was returned to the port of shipment.

#### TINNED MEATS.

The tinned meats seized and destroyed comprised :-

Beef—85 tins	Weight.	Tons.	Cwts.	Qrs.	Lhs. 19
Sausages—24 cases	- ,,	0	12	1	8
Galantines—4 cases	,,	0	3	2	4
Sundry—13 cases and 28 tin	ıs ,,	0	18	0	19
Total -	- ,,	1	14	3	22

#### SMOKED AND SALTED.

This class of meat, destroyed as unsound, consisted of :-

	1	Weight.	Tons.	Cwts.	Qrs.	Lbs.
Salt beef-78 casks and sundry piece	ces -	,.	13	10	1	23
Hams—4 boxes and 12 loose -		"	0	4	0	19
Bacon—3 boxes	-	",	0	5	2	7
Sundries—27 bags and 3 cases -		,,	0	14	2	13
Total	1.	"	14	14	3	6
			-			-

# RABBITS (FROZEN).

The condition in which frozen rabbits arrive in this country has shown a marked improvement in recent years,

Only 80 crates and cases and 86 loose rabbits, weighing 2 tons 1 cwt. 0 qrs. 14 lbs., were seized during the year under review.

# RABBITS (TINNED).

Seizures of tinned rabbits was limited to two consignments, and resulted in 1,029 tins being found as unfit for food, and destroyed, the total weight being 18 cwts. 1 qr. 14 lbs.

#### POULTRY AND GAME.

Almost the whole of the goods seized under this heading were seized on vessels "outward bound," which had returned to the port in a damaged condition. The goods were contaminated with sea water, &c., and putrid. The weight amounted to 2 cwts. 2 qrs. 26 lbs.

## FISH.

The considerable increase shown under this heading is due to a cargo of herrings in boxes, which arrived in bad condition.

The total quantity seized and destroyed included :-

						Tons.	Cwts.	Qrs.	Lbs.
WET-2	,228 boxes	herr	ings	-		260	14	1	12
,, 1	cask salted	d sali	mon	-	-	0	3	0	12
DRIED-	-79 boxes,	22	baskets,	12	bags,				
	11 parcels	3	-	-		1	17	0	1
TINNED-	-Lobster	304	tins	-	-	0	2	2	0
,,	Salmon	387	"			0	3	1	23
37	Herrings	19	"	-	-	0	0	0	19
"	Sardines	187	,,		-	0	1	0	0
"	Sea-ears	16	"		The state of the s	0	0	0	16
,,	Sundries	2	cases	-		0	0	1	- 0
			To	tal		263	1	3	27

## FRUIT (GREEN).

There has been a slight falling off of goods seized under this heading, which were as follows:—

Apples-160 barrels, 42 box	xes,	12	ewts.	Tons.	Cwts.	Qrs.	Lbs
loose	-			11	17	0	12
Bananas-1,819 crates -				63	7	3	0
Grapes-134 barrels, 25 box	ces			4	7	3	7
Lemons—3 boxes	-			0	3	0	0
Mangoes-4 cases		-	-	0	1	1	0
Melons-3 casks		-		0	2	4	0
Oranges-7 boxes, 1 case ar	nd son	me l	loose	0	7	2	24
Peaches-4 cases				0	1	0	0
Pears-14 barrels, 609 boxes	s and	11 t	rays	12	3	3	18
Plums—14 baskets, 4 cases	-			0	4	3	0
Tomatoes-17 crates -	-			0	12	3	0
Sundries—2 boxes -			111.00	0	1	0	0
	Total	we	eight	93	18	3	19
				-		-	_

# FRUIT (DRIED).

Although the quantity of these goods condemned as unfit for human food was more than three times that of the previous year, it will be of interest to know that a large proportion proved to be of some commercial value, as in the case of the dates, the greater portion were allowed to leave the district under a suitable guarantee for the manufacture of vinegar, and the Medical Officers of Health of the districts to which the goods were proceeding were duly informed of the facts.

The quantities of	goods	condemned	were :-
-------------------	-------	-----------	---------

Dundy to boats				ght	449	10	0	16
Sundry-40 boxes	-				0	10	0	0
Sultanas—85 boxes	-		-	-	1	14	1	0
Raisins-10 bags, 11 b	oxes	-	-	-	0	18	2	0
Plums-50 boxes -	-		-		0	12	0	0
Figs-112 cases, 150 b	ags, 1	.15 bo	xes	-	12	18	2	9
7,380 boxes -		15.5	-	-	432	15	3	7
Dates-104 cases, 4,	017 r	nats,	9 b	ags,				
Currants—2 boxes		JHE	19	-	Tons.	Cwts.	Qrs.	Lbs.

# FRUIT (TINNED AND BOTTLED).

Within the last few years the condition in which this class of goods has arrived has greatly improved, and of the total quantity condemned about 12 tons were rejected by the owners and seized by Officers of the Port Sanitary Authorities to prevent sale to small buyers.

The goods seized and destroyed included :-

		Tons.	Cwts.	Qrs.	Lbs.
Apple pulp—3 kegs					
Apricot pulp—12 cases and 171 tins	-	1	5	3	10
Black-current pulp—118 tins		0	10	1	22
Orange pulp—17 cases	-	0	15	1	0
Strawberry pulp—41 tins		0	3	2	18
Tomatoes—14 cases and 8 tins -	-	0	7	2	24
Sundries	-	12	7	0	8
Total wei	ght	15	11	1	26
		-			_

# FRUIT, PRESERVED (JAM AND MARMALADE).

Only two cases and 68 jars of jam, weighing 2 cwts. 2 qrs. 25 lbs., were destroyed as unfit for food.

#### VEGETABLES.

Fresh-					Tons.	Cwts.	Qrs.	Lbs.
Onions-23 bags, 14 l	boxes	T Committee	-		1	17	0	0
Potatoes—108 bags, 7	0 box	es-	-	-	7	3	0	0
Dried-								
Beans, peas, &c		-	-		0	6	1	23
TINNED-								
Spinach—166 tins	-	-		-	0	2	3	24
		Tot	al we	ight	9	9	1	19
					-	-		_

#### NUTS.

As was the case in the previous year, the only goods appearing under this heading are:

Chestnuts—1,138 bags Desiccated cocoanut—1				Cwts.	Qrs.	Lbs. 0
Designation Coconnect of		weigl	571	19	0	0

## PROVISIONS.

The tea, coffee, cheese and chocolate, included in the following list were mostly rendered unfit for food owing to damage received as a result of accidents to the vessel in which they were carried.

The tea was subsequently used for the extraction of caffeine.

With regard to the condensed milk, 1,219 cases, weighing 23 tons 10 cwts. 1 qr., 18 lbs., were destroyed, 399 cases, weighing 8 tons 15 cwts. 1 qr. 16 lbs., were used for pig or poultry food, and 361 cases, weighing 7 tons 15 cwts. were released for confectionery purposes.

The milk used for pig or poultry food and confectionery purposes was only allowed to leave the district of the Port Sanitary Authority after your Medical Officer of Health had received a satisfactory guarantee respecting the same, and the Medical Officers of Health of the districts to which the goods were proceeding were furnished with full particulars:—

				Tons.	Cwts.	Qrs.	Lbs.
Tea-93 packages -		-	-	5	5	0	11
Coffee-34 bags - ·		-		2	15	0	0
Cheese-3 cases, 18,11	3 loose,	and	a				
quantity of trimming	gs -		-	554	3	2	5
Milk, Condensed—1,979	cases -		-	40	0	3	6
Milk, Concentrated-100	cases	-	-	4	7	2	0
Chocolate-1,423 cases -	M Hell	BIV	11-11	27	15	1	17
	Total	weigh	nt	634	7	1	11
				-			

#### GRAIN.

The greater portion of the grain seized as unfit for human food was subsequently released under a guarantee for poultry or animal food, and notifications were sent to the Medical Officers of Health of the districts to which it was being taken. The total quantity dealt with during the year was:—

							Tons.	Cwts.	Qrs.	Lbs.
Wheat	-	0.	-	-	-	-	119	12	1	1
Maize -	Name Of	-	1			100	7	14	1	14
Barley -	-	01 0	-	1120	-	10-01	2	4	1	8
Rice -	1	-	-	M. F. M.	-		17	14	0	12
Oats -		-	-		-		3	17	0	25
Sundries	1004 (11)			De 01	-		7	13	2	15
				Tota	l wei	ght	158	15	3	19

## MEAL AND FLOUR.

The quantity seized was 1 ton 7 cwts, 1 qr. 17 lbs, and this was dealt with in the same way as the grain.

#### EGGS.

6,480 eggs, contained in  $4\frac{1}{2}$  cases, were destroyed, the weight being about 7 cwts.

#### SUNDRIES.

Included under	this	heading	are:-
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duded under this heading a	n b				Tons.	cwts.	qrs.	lbs.
Anchovy Sauce-8 cases	-	-	-		0	5	0	0
Gelatine—1 case -	-		-	-	0	1	2	0
Macaroni—5 boxes -	200	100	discuit !		0	1	1	0
Pickles-22 cases and 22	8 bo	ttles		-	0	8	1	24
Tapioca—1 case -		-	plani		1	2	0	0
Various—3 cases -	-		apple in		0	2	2	14
		Total	weight	-	2	0	3	10

#### SCRAP MEAT.

On the arrival of the s.s. "Koningin Regentes" at Queenborough on the 17th June, the meat cargo was inspected in the usual way, when it was found that one basket (part of a consignment of 58 baskets, manifested as offal) contained scrap meat.

Although scrap meat is an illegal importation, the package bore the official certificate of the Government of the Netherlands,

A notice, as required by Article III. (5) of the Public Health (Foreign Meat) Regulations, 1908, was served upon the importer, and the meat was returned to the port of shipment.

The facts were brought to the notice of the Consul-General to the Netherlands.

#### TABLE XXX.

# PUBLIC HEALTH (FOREIGN MEAT) REGULATIONS, 1908.

During the year Notices were served under Article III. (5) and VI. of the above-mentioned Regulations, requiring the exportation of the following meat:—

Date of Arrival.	Name of Vessel.	Where from.	Where lying.	Description and quantity of foreign meat in respect of which Notices were served.
1913.			AND DESCRIPTION OF THE PARTY AND THE PARTY A	A STATE OF THE PARTY OF THE PAR
Jan. 15	s.s. "Anglian"	Boston	Royal Albert Dock	2 pig carcases.
June 17	s.s. "Koningin Regentes"	Flushing	Queenborough -	1 basket scrap meat.
Oct. 23	s.s. "KoninginWilhelmina"	Do	Do	2 calf carcasses.

The s.s. "Turakina," from New Zealand, arrived in the Port of London on the 14th May, 1913. The vessel caught fire at Rio de Janeiro, and was beached and flooded with water. The cargo comprised, inter alia, 50,000 carcases of mutton, about 900 tons of butter, and about 14,000 crates of cheese. Most of this cargo was under water.

The carcases of mutton were removed from the vessel at Rio de Janeiro, taken to sea and thrown overboard. The butter and the cheese were brought to London in the vessel.

Much of the butter had been melted, and had to be dug out of the ship's hold. The Port of London Authority could not take it into their warehouse, so it was allowed to proceed to two riverside wharves to be dealt with under the supervision of the Medical Officers of Health in whose districts the wharves are situated.

About 5,000 crates of the cheese (3,000 of which were brought to London in the s.s. "Catalina") were sorted under the supervision of your officers, with the result that 552 tons were destroyed as unfit for human food.

## TABLE XXXI.

# PUBLIC HEALTH (FOREIGN MEAT) REGULATIONS, 1908.

During the year Certificates were issued under Article III. (5) of the above-mentioned Regulations in respect of the undermentioned meat:—

Date.	Name of Vessel.	Where from	i a	Where lying.	Description and quantity of foreign meat in respect of which Certificates were issued.
1913.					
Jan. 4	s.s. "Pataro"	Campana	***	Royal Victoria Dock.	180 bags ox-cheeks,
,, 8	s.s. " Rubis "	Ostend		Tilbury Dock	2 bales bacon.
,, 13	s.s. "Lancastrian	Boston		Royal Albert	300 pig-carcases.
,, 14	s.s. "Highland Glen"	Argentina		Dock. Ditto	100 bags ox-cheeks.
, 18	s.s. " Anglian "	Boston		Ditto	297 pig carcases.
,, 22	s.s. "Highland Piper"	Argentina		Ditto	300 bags ox-cheeks.
,, 29	s.s. " Pardo "	Ditto		Royal Victoria	200 bags ox-cheeks.
,, 31	s.s. " Nerehana"	Australia	***	Dock. Ditto	132 pig-carcases.
Feb. 3	s.s. " Cambrian "	Boston		Royal Albert	297 pig-carcases.
,, 5	s.s. "Marere"	New Zealand		Dock. Royal Victoria	15 crates ox-cheeks,
, 12	s.s. "Highland Loch"	Argentina		Dock. Royal Albert	240 bags ox-cheeks,
" 13	s.s. "Topaze"	Ostend		Dock. Tilbury Dock	1 bale bacon.
,, 18	s.s. "Highland Pride"	Argentina		Royal Albert	40 cases ox-cheeks.
,, 26	s.s. "Highland Warrior"	Ditto	***	Ďock, Ditto	120 bags and 40 cases of cheeks.
,, 26	s.s. " Otaki"	New Zealand	***	Royal Victoria Dock.	5 crates ox-cheeks.
far. 3	s.s. "Highland Brae"	Argentina	***	Royal Albert	202 cases ox-cheeks.
,, 5	s.s. "Rubis"	Ostend		Dock, Tilbury Dock	1 bale bacon.
, 10	s.s. " Paparoa"	New Zealand		Royal Victoria	4 crates ox-cheeks.
,, 12	s.s. "Saphir"	Ostend		Dock. Tilbury Dock	2 packages bacon.
,, 13	s.s, "Waiwera"	New Zealand		Royal Albert	28 pig-carcases.
,, 15	s.s. " Highland Rover "	Argentina		Dock. Ditto	50 cases ox-cheeks.
., 27	s.s. "Highland Glen"	Ditto		Ditto	274 bags ox-cheeks.
,, 27	s.s. "Highland Laddie"	Ditto		Ditto	80 crates ox-cheeks.
,, 31	s.s. " Parana"	Ditto	***	Royal Victoria	180 bags ox-cheeks.
April 1	s.s. " Parana"	Ditto		Dock. Ditto	200 bags ox-cheeks.
,, 2	s.s. "Highland Piper"	Ditto		Royal Albert	427 bags and 20 cases of
,, 8	s.s. "Highland Scot"	Ditto		Dock, Ditto	cheeks. 360 bags ox-cheeks.
	s.s. "Topaze"	Ostend		Tilbury Dock	1 bale bacon.
" 12	s.s. "Anglian"	Boston		Royal Albert Dock.	400 pig-carcases.

Date.	Name of Vessel.	Where from.	Where lying.	Description and quantity of foreign meat in respect of which Certificates were issued.				
1913.		Supported Brown	la talanta	.0.01				
April 15	s.s. " Highland Corrie"	Argentina	Royal Albert	50 cases and 200 bags ox				
,, 16	s.s. " Rubis"	Ostend	Dock. Tilbury Dock	cheeks. 2 bales bacon.				
,, 22	s.s. "Highland Loch"	Argentina	Royal Albert	50 cases ox-cheeks.				
., 27	s.s. " Kaikoura "	New Zealand	Dock. Royal Victoria	11 crates ox-cheeks.				
,, 29	s.s. "Highland Pride"	Argentina	Dock. Royal Albert	440 bags and 50 cases ox				
,, 30	s.s. "Topaze"	Ostend	Dock. Tilbury Dock	cheeks. 2 bales bacon.				
May 7	s.s. " Rubis"	Ditto	Ditto	1 package bacon.				
" 11	s.s. "Highland Brae"	Argentina	Royal Albert	500 bags ox-cheeks.				
,, 24	s.s. "Highland Rover"	Ditto	Dock. Ditto	10 crates and 120 bags ox				
,, 28	s.s. " Limerick "	Australia	Royal Victoria	cheeks. 84 bags ox-cheeks.				
June 4	s.s "Highland Glen"	Argentina	Dock. Royal Albert	100 bags and 183 cases ox				
,, 9	s.s. " Highland Piper"	Ditto	Dock. Ditto	cheeks. 50 crates and 800 bags ox				
,, 13	s.s. " Pardo"	Ditto	Royal Victoria	cheeks. 120 bags ox-cheeks.				
" 16	s.s. "Highland Scot"	Ditto	Dock. Royal Albert	50 crates and 300 bags ox-				
" 18	s.s. "Koningin Regentes"	Flushing	Dock. Queenborough	cheeks. 57 packages offal.				
,, 21	s.s. " Highland Laddie"	Argentina	Royal Albert	500 bags ox-cheeks.				
,, 25	s.s. " Saphir"	Ostend	Dock, Tilbury Dock	2 bales bacon.				
,, 28	s.s. "Highland Corrie"	Argentina	Royal Albert	300 bags ox-cheeks.				
July 16	s.s. "Rubis"	Ostend	Dock, Tilbury Dock	1 bale bacon.				
" 23	s.s. "Highland Warrior"	Argentina	Royal Albert	100 bags ox-cheeks.				
,, 24	s.s. " Highland Pride "	Ditto	Dock, Ditto	50 cases and 395 bags ox				
,, 28	s.s. "Dorset"	Australia	Royal Victoria	cheeks. 84 bags ox-cheeks.				
Aug. 6	s.s. "Rubis"	Ostend	Dock. Tilbury Dock	1 package bacon.				
,, 13	s.s. " Rubis "	Ditto	Ditto	1 package bacon.				
,, 18	s.s. " Shropshire "	Australia	Ditto	116 bags ox-cheeks.				
,, 19	s.s. " Durham "	Ditto	Royal Victoria	202 packages ox-cheeks.				
., 21	s.s. "Paparoa"	New Zealand	Dock. Ditto	588 pig-carcases.				
Sept. 3	s.s. " Sussex "	Australia	Ditto	214 bags ox-cheeks.				
. 17	s.s. "Topaze"	Ostend	Tilbury Dock	2 bales bacon.				
,, 18	s.s. "Marmari"	New Zealand	Royal Albert	1,225 bags boned beef.				
Oct. 8	s.s. "Topaze"	Ostend	Dock. Tilbury Dock	8 packages bacon,				
,, 22	s.s. " Rubis "	Ditto	Ditto	3 bales bacon.				
11 23	s.s. "Koningin Wilhelmina"	Flushing	Queenborough	21 carcases veal.				
n 27	s.s. " Kumara "	New Zealand	Royal Albert	16 pig-carcases.				

Date,	Name of Vessel.	Where from,	Where lying	Description and quantity of foreign meat in respect of whice Certificates were issued.			
1913.				and and			
Oct. 28	s.s. " Saphir "	Ostend	Tilbury Dock	2 bales bacon.			
Nov. 5	s.s " Pera "	Australia	Royal Albert Dock,	112 bags boned beef.			
Dec. 1	s.s. "Cambrian"	Boston	Ditto	200 pig-carcases.			
,, 4	s.s. " Rubis "	Ostend	Tilbury Dock	3 bales bacon.			
" 10	s.s. "Rubis"	Ditto	Ditto	1 basket ox-cheeks, 1 basket ox - hearts, 2 baskets sheep-plucks.			
,, 12	s.s. "Kingstonian"	Boston	Royal Albert Dock,	499 pig-carcases.			
,, 17	s.s. "Topaze"	Ostend	Tilbury Dock	2 baskets ox-hearts, 1 basket sheep-plucks.			
,, 18	s.s. "Saphir"	Ditto	Ditto	1 bale bacon.			
,, 24	s.s. "Anglian"	Boston	Royal Albert Dock.	500 pig-carcases.			

Special attention was also given to ox-tongues which arrived from Australia, and the following table shows the results of the examinations of various consignments:—

TABLE XXXII.

Date		Name of Vess	nol.		11	NUMBER (	Percentage of Consignment.		
arrival.		Name of Yes	SCI,			Examined.			
19	13.	TREELED	SU S	192	Tal	erensyle :	Ser-W lunions	2 35 52	
Nov.	15	s.s. " Kent" -	-	9	-	60	Nil.		
5,	16	s.s. "Waimana"	-	-	-	662	32	4.8	
,,	16	s.s. "Suffolk" -		-	-	58	5	31	
Dec.	7	s.s. " Demosthenes"	-	-	-	72	1	1.38	
33	14	s.s. " Rangatira"	300	-	-	120	Nil.	-	
19	14	Ditto	-	-	-	1,247	71	5.69	
19	15	s.s. " Palermo "-	- 001	-	-	313	Nil.	-	
33	15	s.s. "Roscommon"	-	-	7.	60	Nil.		
,,	15	Ditto	2/ 1/	-	-	120	Nil.	-	
11	19	s.s. "Otranto" -	of the	-	-	120	Nil.	Bloom B	
33	28	s.s. "Westmeath"	_ 107	1	-	120	Nil.	Para St	

Where two entries appear under the name of the above vessels the figures relate to consignments of different marks.

#### ACTINOMYCOSIS IN OX-TONGUES IMPORTED FROM THE ARGENTINE.

At the end of July, I received information from the Local Government Board that certain tongues which had been imported from the Argentine Republic had been found to contain lesions of Tuberculosis and Actinomycosis.

A preliminary examination of some imported tongues, disclosed evidence of disease which resembled Tuberculosis and Antinomycosis; this was chiefly situated in the lymphatic glands, but in some cases the blades of the tongues were found to be infected.

Microscopic examination showed that the lesions were those of Antinomycosis, though they presented to the naked eye appearance similar to those of Tuberculosis. An examination was made of a number of tongues in order to ascertain whether they were infected with Tuberculosis, but in no instance could the tubercle bacillus be detected.

The following tables show the number of tongues examined each month, and at the end of the year the percentage of tongues rejected:—

	Мо	nth.				Number of Ox-Tongues Examined,	Number rejected as Diseased.
ing on	19	13.		419		Containing 12 to see	and was long
August	-	-	-	-	-	15,250	688
September	-	-	-	-	-	32,045	1,961
October	-	-	-	-	-	11,482	768
November		-	-	-	-	4,098	186
December	-	-		-	-	12,987	681
Т	OTAL	s -	_	-	_	75,862	4,284

Percentage found diseased

5.64

## EXAMINATION OF OX-TONGUES FROM ARGENTINA.

The following table gives details of the examination by Officers of the Port Sanitary Authority of the various consignments of ox-tongues :—

Date of	de fun diller d	f Vessel			Number	Percentage				
Arrival.	Name	I vesser	e col ve		100	Examined.	Found Diseased.	Consignment		
1913. Aug. 2	"Highland Rover"	9.	dojub	- 10		2,004	102	5.08		
	Ditto	-		-	-	2,112	116	5.48		
	Ditto	-	-	-	1-	7,180	212	2.95		
" 8	" Highland Glen "	1 100	B.T.	Patri	May 1	3,000	240	8.0		
	Ditto	-	-	-	-	804	75	9-32		
	Ditto	-	-	-	-	6,000	367	6.11		
" 16	" Highland Piper"	-	ed!	-		3,599	128	3.55		
	Ditto	-	-	-	-	876	87	9.93		
	Ditto		-	-	10-	5,966	375	6.28		
	C	arried f	orwa	rd -	-	31,541	1,702			

Date	of	Name of Ve				83	Number	of Tongues.	Percentage		
Arriv		Name of V	08901.			mio	Examined.	Found Diseased.	Consignment		
1913	3.	Brought i	orwa	rd	- 11	ilia.	31,541	1,702			
Aug.	22	"Highland Scot"	-	-	17.11	ii-a	2,832	171	6.03		
		Ditto	- 1	Jon.		ning)	876	67	7.64		
		Ditto	-	-	-	-	8,000	436	5.45		
33	29	"Highland Laddie"	2 10	7			2,400	150	6.25		
	billion	Ditto	-	470	-	-	468	72	13.24		
		Ditto	2000	ini.	-	-	6,500	420	6.46		
Sept.	. 6	" Highland Corrie"	-	-	-	-	936	43	4.59		
21	21	"Highland Pride"	-		n in		1,812	143	7.89		
		Ditto	-	-	-	-	720	43	5.97		
23	26	"Highland Warior"	-	-	-	-	144	13	9.02		
		Ditto	- 1	-	-	-	624	22	3.52		
Oct.	11	"Highland Rover"	- 00	Eal		-	1,092	92	8.4		
,,,	25	"Highland Piper"	-	-14	-	-	832	43	5.16		
Nov.	1	Per rail from Liverpoo	ol	- 11	_	-	9,200	545	5.92		
"	14	"Highland Corrie"	- 80	7	-	-	3,698	82	2.37		
,,	30	"Highland Pride"	-	511	-	-	3,011	197	6.54		
Dec.	13	"Highland Brae"	-	-	-	-	1,176	53	4.5		
							75,862	4,284	5.64		

More than one entry against various vessels refer to separate consignments of different marks.

This formed the subject of a conjoint report by the Medical Officer of Health for the City of London and myself, dated October 28th, 1913, and the following information was embodied in the Report, which was forwarded to the Local Government Board:—

- 1. The number of instances in which evidence of disease was observed among Tongues received at the Port and City of London.
- 2. The conclusion therefrom, viz., that the condition chiefly observed is obviously widespread in South America, and that the supervision exercised to prevent the exportation of such affected organs is inadequate in respect of this particular matter.
- 3. The necessity which exists, in the interests of meat inspection work coming within your jurisdiction, that these matters should receive attention with as little delay as possible. So long as the present condition exists the time of your staff will be unduly taken up by this work to the possible detriment of inspection work in other directions. Although we have always been prepared to assist to the utmost of our powers in elucidating any new problems which

come under observation, we are of opinion that when once the position has been clearly defined, the work of sorting and of preventing unsound food reaching this country should be the primary duty of the exporting firms. The responsibilities of your own staff should be restored as soon as possible to normal conditions, which are to ensure that all food stuffs on arrival are sound, free from disease, and fit for human consumption.

4. The observation that a large percentage of the tongues are affected with Actinomycosis in the glands alone, and unless these glands remain attached to the roots of the tongues, it will be impossible in such cases to state whether the tongues have come from animals infected with Antinomycosis.

We, therefore, feel strongly that regulations should be framed rendering the importation of tongues without the roots and glands attached liable to re-exportation.

5. The question of Actinomycosis as affecting cattle, and even the prevalence of the disease in general, does not appear to us, after a review of the literature on the subject, to have been adequately investigated, and we beg respectfully to suggest that it is a matter on which further research work might be undertaken with advantage.

The tongues arrived in boxes containing 12 in each, these were frozen hard, and it was necessary to defrost them until they were soft enough. This was done by laying them out 24 to 48 hours previously. The work was extremely monotonous, and during the winter months was performed in a store, the temperature of which was about the freezing point, and the handling of the cold tongues was positively painful. Nevertheless, the examination was performed by the Inspectors and Assistant Medical Officer, loyally and willingly, and I desire to express my appreciation of the valuable services rendered by them under conditions involving, to say the least, extreme personal discomfort.

#### TABLE XXXIII.

The following is a list of pig-carcases found during the year to be affected with Tuberculosis. They were seized as unfit for food and destroyed:—

Date.	Name of Vessel.		Where from.	Where lying.	Number o Carcases.		
1913.							
Feb. 6	s.s. "Cambrian" -		Boston	Royal Albert Dock	3		
Dec. 11	s.s. " Prins Hendrik"	2 2	Flushing -	Queenborough -	1		

The United States Department of Agriculture have issued the following instructions with regard to meat imported into the United States of America after transhipment in a foreign country:—

"Referring to the foreign inspection certificates which are required to accompany meat and meat food products imported into the United States; instructions are issued as follows:—

"In the case of shipment through another foreign country, with the meat "or meat food product thus transhipped there shall be presented to the Bureau "inspector the original certificate from the country of origin, or a certified copy

"thereof, together with a transhipment certificate signed by an authorised

" official of the Government of the foreign country through which the produce

- "is transhipped. The transhipment certificate shall show the identity of such
- "meat or meat food product, and that the same has been examined and inspected
- "and not found to be unsound, unhealthful, unwholesome, or unfit for human
- " food, and that at the time of exportation from the country through which the
- " product was transhipped, the same contained no dye, chemical, preservative, or
- " other ingredient not permitted by the regulations governing the meat inspection
- "of the United States Department of Agriculture."

During the year three consignments of foreign meat, intended for shipment to the United States of America, were examined by your Officers, namely—

12th June ... 40 hind-quarters of beef. 12th June ... 200 ,, ,, ,, ,, 13th December... 1,486 quarters ,, ,,

My practice on receiving a request to examine meat destined for exportation is, if possible, to see the original certificate from the country of origin, or a certified copy thereof, and to have each piece of meat examined carefully for evidence of unsoundness, disease, or other unhealthful condition.

Each piece, after examination, has a piece of wire passed through it, and is clamped with an official seal, and the following is a specimen of the certificate used in respect of such consignments:—

# (1) FOR MEAT INTENDED FOR SHIPMENT TO THE UNITED STATES OF AMERICA.

Date

To

I, DOCTOR HERBERT WILLIAMS, Medical Officer of Health for the Port of London, hereby certify that quarters of beef, marked, out of the s.s. from , which arrived in the Port of London on the have been this day examined and found in sound condition, and free from any appearance of disease.

An official seal has been affixed to each quarter so examined, and each quarter bears the official certificate of the Government of the Argentine Republic.

(Signed)

# Medical Officer of Health, Port of London.

Four consignments were also examined for shipment to Switzerland, namely :-

 29th October
 ...
 150 carcases of mutton

 30th
 ...
 150 ,, ,, ,

 4th November
 ...
 100 ,, ,, ,

 9th December
 ...
 20 fore-quarters of beef

and certificates issued in respect of same by your Medical Officer as follows :-

# (2) FOR MEAT INTENDED FOR SHIPMENT TO SWITZERLAND.

CERTIFICATE OF ORIGIN AND STATEMENT OF INSPECTION OF MEAT FOR TRANSHIPMENT OF FRESH AND PACKED MEAT DESTINED FOR IMPORT INTO SWITZERLAND.

Country of Origin
Name of Sender
Designation of Goods
Place of Destination
Name of Consignee

Place

Signed for

The Officer of Health charged officially with the examination of the meat in the Port of London, where the above designed goods are sent from, certifies that the

are of sound condition and fit for consumption, and that this meat is of animals of the ovine or bovine species, sound and free from contagious and infectious diseases.

The present truthful statement is made in London on the

The Medical Officer Charged Officially with the Examination of Meat in the Port of London.

(Signed),

Medical Officer of Health, Port of London.

#### SANITARY INSPECTION.

The inspection of vessels and other premises by your Staff of Sanitary Inspectors has been well maintained at the customary standard. The total visits of inspection of all classes was 38,926, the average annual total for the past ten years being 37,672.9. Of the total 14,425 were of vessels from foreign ports, 20,681 of vessels coastwise, barges, &c., while 3,820 were of premises on shore within the docks. The Launches were employed on 12,939 inspections. Of the nationality of vessels inspected 56.67 per cent. of foreign arrivals were British, 14.05 per cent. Swedish and Norwegian, 10.87 per cent. German, and others in smaller proportion. (See Table XXXIV.) The total number of nuisances reported and dealt with was 3,719, involving 460 written intimations and 21 statutory notices; in 2 cases legal proceedings were taken.

The largest number of complaints was in respect of dirty crew's quarters, next in order of number being smoke nuisances. Foul bilges and peaks, defects of ventilation, lighting and heating, leaks, and insanitary conveniences form the bulk of the remainder. (See Table XXXV.)

New sanitary works constructed under the supervision of your Officers is set out on Table XXXVII.)

These works are carried out in accordance with plans previously deposited for the information of your Committee.

There were 15 intringements of the Bye-laws reported in relation to offensive cargoes. In all cases a warning was given to the persons concerned, and in no case was any recurrence reported. (See Table XXXVIII.)

# TABLE XXXIV.

General Summary, and Analysis, of the Sanitary Inspections of Vessels, &c., in the Port of London, for the year ended 31st December, 1913.

Foreign. Coastwis												Ī					-	AVIG							Shor	re	Hospital	,	V.	TER
Ste	am,			Sail		St	ear	m.	S	ail.		s	team	١.	8	ail.		Li (unin	ghte	rs ited).	Cana	Bo	ats.		emi		ed to Hos	В	AR	GES.
Inspected,	Defective,	To be Cleaned.	Inspected.	Defective.	To be Cleaned.	Inspected.	Defective.	To be Cleaned.	Inspected.	Defective,	To be Cleaned.	· Inspected.	Defective,	To be Cleaned,	Inspected.	Defective.	To be Cleaned.	Inspected.	Defective,	To be Cleaned.	Inspected.	Defective.	To be Cleaned.	Inspected.	Defective.	To be Cleaned.	Sick Seamen referr	See, in District in good condition, 31st December, 1918,	Condemned.	Use Discontinued.
13426	38	1394	999	1	81	3418	26	222	1843	13	78	800	2	35 1	2026	63	345	2491	16	187	602	52	18	3820		400	-	18 1	1	1
Total Dec		aspec			to		1	,023	,890	-		Do	eks	and	River		0	N	0.		Natio	onal	ity.		Arri fro Fore Por	om elgm	No.	of in	Pe S	rrival of lotal
Jan	otal Inspections from 1st January to 31st December, 1913 —								t. I		hari	ine	's -		1	1,2		1	Amer Argen	ntin	10		200	1 - 25		2 - 47		·0		
	"Foreign" - 14,425 "Coastwise" - 4,762 "Inland Navi-									13	Rege			ana	al -		-		67	I	Belgi: Brazi	an		-	33	52		375	1	3.6
	g	ation	"		- 1	5,919				10	Ves			-	1		-	2,2		(	Britis Chilia	n		-	5,51	-		496 1		6.67
1		mise hore		or		3,820		38	,926	1	Popl		1:	-	-		-		15 74	I	Danis Dutch Tinni	1-		-	60	03 03 15		455 745 79		3·11 6·20
			To	tal	-	-	. 1	,062	,816		Vict			-	-		-	2,6		1	renc	h		-		63	7	228 472		1.67
	s, d	kc. :-	000			at me		To.	Time 8	1	Roya						-	2,2		I	dreel talia	n		-		3		12		.0.
Total Total	No	o. of	Ves	sels	fro			67	,542	193	Cilb			-			Tale of the last	2,6		I	-0.5	anese maniar sian			1018	58	and the same	107 6 293		2-13
191		17 10		tal	-			_	2,360 0,902						er Di		- d	2,2 6,3		2	Siame Spani	sh			4	5 49	anna anna	7 63		-0:
Numl		of v	ress	els		ected	1:	_	78 .	1					11	**		4,7	61	1	Norw Mexic	egi					2,	031	1	4.0
61	L	ady !	Trus	cot	t "	gmi	100		,791	1				wow	vay -	22		3,9 Ni			Portu Jrng				-					-
	, C	lotho	n"	-	-	-	30	3	0,637 0,904 0,682	200	Shor	e p	7	lot	al ves	sels	-	35,1	06	t Co	otal hore	Inl	and n	aviga		20,	425 681			
-	· G	eorg		rigg	gs ''	110		12	925			lo n		Tot			-	38,9		-	note	-		tal -				926	95	9-95
In	the	Doc		&c.	-	ellif	-	-	,167	8 8	inh	200		Mi	per Dis ddle wer	triet	exte		rom	Gre	enwicenwice	h to	Er	ith.			ort o	f Lon	don.	
		Olla	700		TTO		1	delle legt	C (	o a	I P	A	R	A I	IV	E	T	A B	LI	Ε.			100					0.00		
Total ves		umbe s fro			Insp	ection	ns	of	1904	. ]	1903	5.	190	6.	1907.	19	908.	190	9.	19	10.	191	1.	19	12.	19	13.	Yearly for the endi Decem	ng 3 ber,	rage rears ist 1911
		For Coa	stwi	se,	ation		a	nd nd							17,97			10				- 170								
					Tot	tal -		-	35,38	5 3	4,2	543	5,3	48	37,38	5 35	,272	40,3	56	38,	567 8	38,0	)24	43,	212	38,	926	37,	572	1-9

# TABLE XXXV.

NUMBER OF NUISANCES ON VESSELS REPORTED AND DEALT WITH during the year ending 31st December, 1913.

DESCRIPTION OF NUISANCES.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals.
Smoke Nuisances :— . Number of complaints received	31	16	23	14	25	48	54	4	10	22	25	32	304
Number of recurrences reported					***	1		***					1
OFFENSIVE CARGOES (Bye-laws) :— Number of Infringements reported	3	1		1	1		1	1	1	2			11
Structural and other Defects:— Ventilation	3	9	8	7	7	8	6	3	9	13	5	6	84
Lighting	9	16	8	4	6	3	4	3	6	6	3	3	61
Heating	8	10	8	4	2		2	1	1	6	.5	6	53
Bare iron in crew's quarters	1	3		3	1			1			1	1	11
Leaky decks, hawse-pipes, cable casings, &c	11	4	8	11	5	2	8	5	2	4	4	5	69
Defective bulkheads and floors	3	4	1	1	2	3	1	1	5				21
Sanitary conveniences	6	13	9	1	5	4	2	3		7	4	5	59
Ship's gear or stores stowed in crew's quarters		1		1	1	1		1					5
Foul bilges and peaks	35	6	14	7	3	8	6		1	6	3	1	90
Storage of drinking water (dirty or defective tanks)	1	3		1	1				2	1	2	1	19
Dirty quarters	272	213	200	230	187	211	216	124	152	199	190	178	2,372
Accumulation of offensive matter	1					1					1	1	4
Miscellaneous Nuisances	3	10	4	1	4	3	2	3	5	12	10	9	66
Totals	387	299	283	286	250	293	302	150	194	278	253	248	3,223
Total number of vessels on which structural alterations were ordered	36	36	25	15	18	13	13	9	14	29	22	18	248
Total number of vessels on which structural alterations were reported as carried out	33	26	20	33	14	9	20	9	17	15	27	33	256

the year ending 31st December, 1913.

From discharge of foul liquid, sewage, &c., into the River	 	 	2	 1	1	 	1	1	6
Totals	 	 	2	 1	1	 	1	1	6

## TABLE XXXVI.

# NUMBER OF NUISANCES ON SHORE PREMISES REPORTED AND DEALT WITH during the year ending 31st December, 1913.

Description of Nuisances.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Totals
SMOKE NUISANCES:													
Number of complaints received	1	6	2	2	1		1	1	***	4	5	3	26
Number of recurrences reported					***					***		***	***
STRUCTURAL AND OTHER DEFECTS :-													
Ventilation		***		***	***	***	***		***		***	***	***
Lighting	***	***	***	***	***	***	***		***	***			***
Heating	***	***	***	***	***	***	***		***	***			***
Dilapidations	***		***			***	***	***	1	1	100	1	3
Sanitary conveniences	4	***	1	***	1	1	2	1	1	2	5	***	18
Water supply	***	0.0	0.0	40	***	20	***	10	10	2	***	2	5
Dirty premises	55	38	26	43	44	29	42	13	12	38	57	16	413
Accumulation of offensive matter	3	***	***	***	***	***		***	***	1	2	***	6
Drainage	1	***	***		***	1	***	***	***	***	1		3 8
Foul cesspits, latrines, &c	3	***	1	***	***		1			2	1	***	8
Miscellaneous nuisances	4	***	***	1	***	***	1		1		1	***	8
Totals	71	44	30	46	46	31	47	15	16	50	72	22	490
Number of shore premises on which structural alterations were ordered Number of shore premises on which structural alterations were reported	6		1	1	1	1	3	1	2	3	6	3	28
as carried out	2	***	1	1	3		1		2	1	2	2	15

## SUMMARY.

			PA	Smoke,	Structural.	Offensive Cargoes,	Sewage, Drainage, &c.	Miscellaneous,	Totals.
Number of	f Nuisances re	ported							
	n vessels			304	363	11	***	2,545	3,223
	n shore		***	26	26		3	435	490
(c) (	n the River	***				***	6		6
	Totals			330	389	11	9	2,980	3,719
Number of	f written Intir	nations	_						
V	n vessels			107	206	11		105.	429
	n shore	***		7	18		2		27
(c) (	n the River	***				***	4		4
	Totals			114	224	11	6	105	460
Number of	f Statutory No	otices—	-		1				
(a) 0	n vessels			14	5	1		1	21
(-)	n shore								
(c) O	n the River								
	Totals			14	5	1		1	21

# POLICE COURT PROCEEDINGS.

	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Total number of cases in which legal proceedings were recommended			1			1							2
Total number of cases in which legal proceedings were taken													

## TABLE XXXVII.

#### PART I.

Date com	pleted.	Works.
191	3.	
Jan.	16	St. Katharine's Dock—Erection of water closets, &c., on Top Floor "C' Warehouse.
April	24	East India Dock (Import)—Erection of water closet and urinal in South-East corner of No. 5 Warehouse, South Quay.
May	6	West India Dock—Erection of new Labourers' Shelter and "Calling On" place with sanitary conveniences in connection therewith.
,,	10	Royal Albert Dock—Erection of water closets for Messrs. H. Green, Siley, Wein and Co., Ltd.
11	23	Poplar Dock—Construction of new drain from capstan pit, and roof rain water to existing main water drainage.
June	25	St. Katharine's Dock-Alterations to convenience at No. 4A Yard.
Oct.	23	Surrey Commercial Dock—Erection of additional sanitary accommodation in Steel Yard.
Nov.	28	Surrey Commercial Dock-Erection of additional closets, &c., at Principal Office.

Part II.

Sanitary Works and alterations, not yet reported as completed:—

Dat Plan subi		Works.
191	3.	
Jan.	3	London Dock-Proposed new conveniences at Western Dock, North Quay.
"	24	Regent's Canal Dock—Proposed rain-water arrangements for Weighbridge Office at Lion Wharf.
Feb.	21	Royal Albert Dock—Proposed erection of sanitary conveniences at the rear of Dockmaster's Office.
April	4	Surrey Commercial Dock-Proposed conveniences at Swedish Yard.
July	2	Surrey Commercial Dock (New Shed, Swedish Yard)—Proposed connection of rain-water drains with existing 18-inch brick drain, and ventilation of drain.
12	30	Millwall Dock—Proposed drain and latrine, North side of Boilerhouse.
Aug.	2	St. Katharine's Dock (No. 2 Yard)—Proposed re-arrangement of sanitary conveniences.
Sept.	2	Royal Albert Dock (Basin, North)—Proposed construction of two private closets, and seven closets for Lascars.
>>	2	London Dock—Proposed construction of sanitary conveniences and drainage at New Jetty, Western Dock.
"	20	Royal Albert Dock—Proposed sanitary accommodation for women.
Nov.	19	Royal Victoria Dock—Proposed sanitary conveniences at Messrs, Cory's New Offices, Pier Head.
12	21	Surrey Commercial Dock-Proposed drainage in connection with Railway Yard.
Dec.	23	Royal Albert Dock—Proposed alteration to latrines at Albert Dock Engine Works, Ltd.
27	30	Royal Albert Dock—Proposed erection of earth closets at the New Zealand Shipping Co.'s Boat Shed.

## NUISANCES.

On the 18th November, 1913, I received from the River Department, Port of London Authority, a report which had reached them from the Metropolitan Police, Thames Division, of the discharge of oil into the river from a vessel lying in the vicinity of Woolwich Reach.

There seems to have been no doubt as to the facts. Section 92 of the Thames Conservancy Act, 1894, Sub-Section 4, forbids any person without lawful excuse to "wilfully cause or suffer any offensive matter, whether solid or fluid, to flow or pass into the Thames or into any tributary," but the final paragraph of the same section is as follows:—

"Provided always that the Sub-Section (4) of this Section shall not extend or apply to any vessel within the limits of the Port of London and under the jurisdiction of the Port Sanitary Authority thereof."

This was the reason for passing the report of the police on to your Medical Officer, but it does not appear that the discharge of oil from vessels lying in the river, in the manner described in the report, would or could constitute a nuisance which should be dealt with by your Committee under the Public Health Act.

In view, however, of the probability, in the near future, of an increased number of vessels using or importing liquid fuel coming into the river, the question generally was referred to Mr. Solicitor for his views upon the point raised.

# TABLE XXXVIII. BYE-LAWS—OFFENSIVE CARGOES.

Fifteen cases of infringement of the above-mentioned bye-laws were reported during the year. In each case written notice was sent to the owners of the barges concerned:—

Da	ite.	Name of Vessel.	Infringement.
19	13.		
Jan.	1	Dumb barge "Petunia"	Laden with a cargo of refuse matter which was not properly and securely covered so as to prevent any nuisance arising therefrom.
77	24	Barge "Hawthorn" -	Permitting the barge laden with an offensive cargo to remain within the district for a longer period than 48 hours.
"	29	Lighter "Robert" -	Laden with a cargo of fish offal which was not properly and securely covered so as to prevent any nuisance arising therefrom.
Feb.	7/8	Dumb barge " Daffodil"	Laden with a cargo of dung which was not properly and securely covered so as to prevent any nuisance arising therefrom, and also remained within the district for a longer period than 48 hours.
April	18	Lighter "Extension" -	Laden with a cargo of road sweepings, &c., which was not properly and securely covered so as to prevent any nuisance arising therefrom.
May	9	Lighter "Emma" -	Laden with a cargo of house refuse, road sweepings and dung, which was not properly and securely covered so as to prevent any nuisance arising therefrom.
"	9	Lighter "Walter" -	Ditto Ditto.
"	31	Lighter "Exe"	Ditto Ditto.
July	24	Lighters "George" and "Wandsworth."	Ditto Ditto.
Aug.	15	Lighters "John and Sarah" and "Harry."	Loaded with a cargo of sewage screenings which was not properly and securely covered so as to prevent any nuisance arising therefrom.
Sept.	11	Lighter "John and Sarah."	Ditto Ditto.
Oct.	17	Lighter "Beaconsfield"	Failing to have the lighter thoroughly cleansed and deodorized within 6 hours after the discharge therefrom of an offensive cargo.
"	21	Lighter "Sloop" -	Laden with a cargo of refuse matter which was not properly and securely covered as to prevent any nuisance arising therefrom.

#### OFFENSIVE CARGOES.

On the 7th May I received information that the master of the barge "Agreement," of Rochester, official number 78,529, on the 23rd April last, went into the fore cabin to defectate. The mate, becoming alarmed at his long absence, went down into the cabin and found that the master had fallen from the bucket, face downwards, and was black in the face—apparently dead.

He was taken to St. Thomas' Hospital and found to be dead.

The man's father is of opinion that he was overcome by foul gases from a cargo of manure, which had been in the barge for two days.

An inquest was held at Lambeth Mortuary on the 26th April, and a verdict was returned to the effect that he had either been asphyxiated or choked. Such cargoes occasionally generate a lethal gas which passes into the cabin, and several deaths have occurred from this cause.

The barge was inspected on May 13th. The bilges were in a muddy condition, and smelling, but there was no cargo on board.

On the 15th December I received a complaint from a resident of Greenhithe respecting the offensive condition of a barge named "Kingcup," lying off Greenhithe, and loaded with dung.

The Inspector for the Gravesend District was immediately notified, and a written notice was sent to the owners of the barge, the result being that the unloading of the cargo was hastened, and the barge was removed on the 17th December.

In November, two ships arrived in the Port laden with cargoes of cotton seeds. Four men employed in unloading these vessels experienced, a few hours after they had commenced working, symptoms of severe itching all over their bodies. They attended at the London School of Tropical Medicine, where they were found to be suffering with a papular eruption over the whole body except the face and hands. There was no danger to life, but the symptoms were extremely disagreeable and irritating.

On examination of the cotton seed it was found to be heavily infested with a maggot, or caterpillar, which appeared to be the larva of a small moth named Gelechia Gossypiella, that has been found very destructive in granaries.

On the maggots, mites were found in great numbers. These were identified as *Pediculoides Ventricosus*. The creature is like a louse but much smaller, and has long hair-like bristles attached to the legs. It has been known to attack man in the tropics and in America.

It is supposed that these mites had been introduced into the country of origin with a view to its attacking the caterpillar and moth described above, and so preventing them from doing damage to the cotton seed.

I am indebted to Col. A. Alcock, I.M.S., F.R.S., LL.D., &c., and Dr. F. W. O'Connor, of the London School of Tropical Medicine, for particulars of the cases and for the identification of the caterpillars and mites.

#### CREW SPACES.

It is gratifying to note that this subject is receiving more favourable consideration in responsible quarters, and it may be assumed therefore that the reiterated comments by, amongst others, Port Sanitary Authorities on the inadequate provisions of existing legislation, relating to the hygiene of vessels from the point of view as dwellings, is beginning to take effect, and there are at least signs of some attempt at an international levelling up of standards in this respect.

The Commonwealth of Australia in the Navigation Bill of 1912 deals with the subject in much greater detail than the British Merchant Shipping Act, in reference to vessels (a) Registered in Australia (b) engaged in the Coast trade.

I have also been privileged to peruse certain Regulations drafted by the Director of Shipping for the Government of Norway on the same subject.

The Board of Trade have also revised and re-issued the Instructions to their Surveyors, which will take effect in February, 1914. These instructions do not, of course, enlarge any provisions of the Merchant Shipping Act, but merely instruct Surveyors as to the terms in which, in the opinion of the Board, those provisions should be translated in practice.

In all legislation dealing with the accommodation on vessels for seamen, the first question that presents any difficulty is the minimum of space to be afforded each man. It must be expressed in two dimensions, (a) cubic or general breathing space, and (b) floor area.

It has been pointed out by all who have handled the subject with a view to reform, that the legal minimum does usually in practice become the maximum. This should not be so, but it is of course only natural that builders should consider the official minimum as sufficient.

The British Merchant Shipping Act offers, by way of inducement to the shipowners, to deduct from the tonnage of the ship, upon which he pays dues, the tonnage expressed by the space devoted entirely to the use of the crew.

This Act also regulates the measurement of vessels for the purposes of the Australian Navigation Bill.

It is therefore interesting to note that the Commonwealth Government by the Bill do not regard the minimum space provided by the Imperial Act as being adequate, and a similar view would appear to be taken by the Norwegian Government, thus:—

M	erchant Shipping A	Act. Australia.	Norway.
Cubic space (in feet) -	- 120	140	140
Floor area (in square feet)	- 15	18	18

It is a peculiarity of the Merchant Shipping Act that the allowance of space mentioned may be taken to include any special accommodation provided, such as separate mess rooms, &c., save that the space allotted for sleeping must not be less than 72 cubic feet, and 12 square feet of floor space respectively. In the Colonial and Swedish regulations the minimum of 140 and 18 is for the space set apart for berthing or sleeping, and space appropriated for messing, washing, &c., would appear to be additional. Such a step would be a great advance on existing conditions. In the Colonial regulations certain local trade vessels, and in the Swedish vessels of less than 200 tons register, are exempt from those provisions.

The Colonial regulations make a departure in legislating specially for officers, allotting in ships of 300 tons and upwards to each officer up to at least four, a separate room with not less than 180 cubic feet of space, and in the case of a limited class of vessels of less than 300 tons gross register for each two officers a separate room with a content of not less than 350 cubic feet.

Another striking provision is found in the Norwegian regulations where in vessels of 800 tons and upwards two bunk cabins and separate mess rooms shall be provided for the crew. But on passenger vessels of 3,000 tons and upwards (where the crew would of course run to large numbers) this arrangement may be modified, subject to the preliminary deposit and approval by the appointed officers, of a plan of the proposed cabin arrangement.

The Australian regulations prohibit crew's quarters below the winter load line, and the Swedish, below the main deck unless the ports are  $2\frac{1}{2}$  feet above winter load line.

Ventilation.—With reference to this much discussed, and in regard to crew's quarters, admittedly difficult question—the Australian Regulations alone adopt a volumetric standard.

They provide that "Every place in a ship . . . . appropriated to the berthing "accommodation of seamen or apprentices shall . . . . be ventilated in such a "manner as to ensure a flow of not less than 3,000 cubic feet of fresh air every hour for each seaman or apprentice, evenly diffused by means approved by a qualified medical "inspector . . . . with an intake and outtake of such size and so arranged as to "prevent such draught as would in the opinion of the medical inspector be likely to be "prejudicial to the health of the seamen or apprentices."

The Norwegian Regulations follow the broader lines of the British, except that favour seems to be given to doors, skylights, and the like as primary means of ventilation; whereas a secondary position is given to this by our Merchant Shipping Act, which recognises such means only as auxiliaries—ventilation to be as effective as possible independently of doors, &c. But the two countries appear to agree on this point that each case should be decided on its merits by competent authority.

They further agree in stipulating that deck ventilators must not have their termination immediately over or near a bunk. The British Regulations add, in view of the fact that the deck site of the ventilators is often arbitrarily defined by the position of other gear, &c., that in that case, a trunk way should be fitted below in the cabin or berth to direct the inflowing air away from the occupants of the bunk.

Head Room.—Under the British Merchant Shipping Act, 5 ft. 6 in. is regarded as a practical minimum, permitting a man to get about without serious inconvenience. It probably requires practice to achieve this.

The Swedish Regulations require on vessels of 200 tons and upwards a minimum of 6 ft. 3 in. and on vessels of 300 tons and upwards 6 ft. 9 in., a very different thing, and an immense improvement.

Mess Rooms.—Australia requires separate mess rooms where practicable, if not, then tables must be of a folding or sliding type. Norway requires separate mess rooms in vessels of 800 tons upwards.

FOOD LOCKERS.—The storage of food in lockers in the crew's quarters is not absolutely prohibited on British ships, but is discouraged, and can generally be dealt with as a nuisance.

The Norwegian Regulations, however, absolutely prohibit the keeping of food, damp clothes, and other things likely to become offensive in sleeping compartments. This is a most excellent provision.

Baths and Lavatories.—These are of course found nowadays provided for crews on many British vessels of the best class, but the custom is not general. The Australian Government require such to be provided to the satisfaction of their Medical Inspector. Norway requires on steam vessels of 1,500 tons and upwards in addition to lavatories a bath for the crew with warm water supply when required. On smaller vessels the bath only is dispensed with, separate washing accommodation, one washing apparatus to every two men in one watch is required.

Water Closets.—The standard of one closet for each ten men of the ship's company, recognised by the Board of Trade, is also accepted by the Norwegian Government, while the Australian regulations leave the extent of accommodation to be decided or approved by the Medical Inspector.

HOSPITAL (SICK BERTH) ACCOMMODATION.—This on British ships may be provided, and if so, and there is compliance with the regulation, it "should" be certified as "Crews' Hospital" and be included with the deductions made on account of Crews' space from the tonnage of the vessel.

The Commonwealth Regulations require: -

# "(271) HOSPITAL ACCOMMODATION.

- 1. Every
- (a) Foreign-going ship trading regularly with the Commonwealth, or
- (b) Australian-trade ship on a voyage between consecutive ports which exceeds a prescribed distance

and having 100 persons or more on board, shall be provided with hospital accommodation of such a character and so placed and arranged as to afford proper means of isolation for cases of communicable disease which may arise during the voyage, and for any persons attending to such cases.

- 2. The accommodation shall include the necessary lavatory and sanitary accommodation and such other accommodation as is prescribed.
- 3. The hospital shall, wherever practicable, be placed on the top deck aft or on the boat deck as far aft as practicable.
- 4. The master of a vessel who fails to comply with this Section and who suffers his vessel to enter any port or place in Australia shall be guilty of an offence.

Penalty (on master or owner) 100l."

The Norwegian regulations provide that in vessels with a crew of 12 men and upwards there shall be a "special sick ward," properly lighted and ventilated, and with bunks as follows:—

Crews	12-17 men		 	1 bunk
"	18-30 ,,		 	2 bunks
22	31-45 ,,	***	 	3 ,,
- 11	46 and upwards	s	 	4 ,,

but this regulation does not apply to fishing, whaling and sealing vessels below 200 tons register nor to the Coasting and European short sea routes.

Other minor requirements by way of improvement on existing standards may be mentioned as:—

```
Metal bunks - - - - - - - - - - Australia.

Bunks not to be against ship side - - - - - - Norway.

Separate lockers outside sleeping berth for oilskins, boots, &c. - do.

Galley not in crew's quarters (except in Arctic vessels) - - do.

Daily cleaning and ventilating of quarters, by watch on duty - do.
```

In this review—necessarily condensed and abbreviated—it is merely sought to show that a decidedly active movement is taking place in the right direction as regards the seaman.

The difference is that the two Governments quoted are seeking powers to make these various sanitary improvements compulsory in their vessels, while the British Merchant Shipping Act does nothing of the kind except to a very limited degree.

The method adopted by other authorities of classifying vessels by their tonnage is good. It gives some idea, in the first place, of the probable amount of space at disposal. The placing of vessels engaged on short sea routes and coasting trades as a separate class is also wise, as conditions here often differ widely from vessels in the overseas trade.

Progress on similar lines should certainly be made with British shipping. It would not be difficult to transform or modify the existing "Instructions" into definite Regulations to be enforced under penalty and by summary proceedings.

Under existing circumstances, a nuisance may exist during a whole voyage, and, only be abated when in a port in this country after inspection and an intimation had been served on the owners: e.g., overcrowding may have existed for a long period and the nuisance abated by forthwith discharging the crew after the vessel's arrival.

It would appear that Proceedings under the Merchant Shipping Act can only be taken by the Board of Trade for this, but I do not know of any instance in which such proceedings have been instituted.

This question partakes of an international character, and, in my opinion, it is worthy of consideration by an Official International Convention at which all the nations interested in maritime commerce should be represented. Regulations, based upon the decision of the Convention should then be issued, and they should be enforced summarily by the Port Sanitary Authorities of the United Kingdom.

#### CREW SPACES.

Comparison of Regulations, &c., by the Governments of the Commonwealth of Australia, Norway (in draft), and the United Kingdom.

	AUSTRALIA.	NORWAY.	UNITED KINGDOM.
Officers, per head-			
Cubic space	180 cub. feet Under 300 tons gr. 175 cub. feet	140 cub. feet	120 c. ft. For all
Floor area		18 sq. feet	15 sq. ft. J purposes
Seamen and Apprentices, per head—			mendicularity of the second
Cubic space	140 cub. feet	page andon special	72 c. ft. ) Minimun
Floor area	18 sq. feet		72 c. ft. Minimum for 12 sq. ft. sleeping
Ventilation	3,000 cub. feet per hour per head	No standard	No standard
Head room	de Utario des desembre	Under 200 tons gross 6 feet 3 inches, Above 200 tons 6 feet 9 inches	5 feet 6 inches minimum
Mess room	Separate, or folding, or sliding tables in quarters	Separate for 800 tons up	
Food lockers, &c	and the survey ball	Not in sleeping quarters	Not in sleeping quarter
Bathrooms and lava- tories, h. & c. water.	q. s.	Over 800 tons, separate washing for each two men of watch Over 400 tons, ditto for long voyages and to tropics 1,500 tons and up, add bath	Optional
Hospital	Minimum 100 persons carried	On vessels above 200 tons and carrying crew of 12 persons and up- wards.	Optional.
W.C's, &c	q.s.	1 to every 10 persons	1 to every 10 persons
Position	Not below winter load line	Not below main deck unless ports 2½ feet above winter load line	Optional

## SLEEPING ACCOMMODATION ON BOARD SHIP.

The following Table gives particulars of the sleeping accommodation in the crew's quarters found on certain vessels inspected by your Officers.

				Sleeping a	ecommodation provided.	Number of men for whom	
Date.		Quarters (Native).	Occupied by	Bunks,	Cots, Gunny Bags and Hammocks.	no sleeping accom- modation is provided,	
1913.					Salistines alson		
September	29	Firemen	101 men	29	27	45	
October	3	Firemen	101 ,,	20	40	41	
		Seamen	48 ,,	18	13	17	
,,	7	Firemen	55 ,,	29	17	9	
		Seamen	42 ,,	17	11	14	
13	29	Firemen	101 ,,	23	16	62	
		Seamen	51 ,,	21	7	23	
November	3	Firemen	101 ,,	30	32	39	
		Seamen	50 ,,	24	16	10	
"	11	Firemen	81 "	17	20	44	
		Seamen	45 ,,	14	3	28	
"	19	Firemen	101 ,,	44	20	37	
		Seamen	47 ,,	22	11	14	
"	20	Firemen	87 ,,	11	24	52	
		Seamen	42 ,,	11	12	19	
"	25	Firemen	101 ,,	52	7	42	
		Seamen	47 ,,	33	10	4	
December	4	Firemen	101 ,,	30	26	45	
		Seamen	47 ,,	21	10	16	
"	8	Firemen	80 ,,	17	18	45	
		Seamen	41 "	14	10	17	
"	16	Firemen	101 ,,	19	29	53	
		Seamen	47 ,,	20	16	11	
"	30	Firemen	101 ,,	30	36	35	
		Seamen	47 ,,	28	5	14	
		Totals -	1,766 men	594	436	736	

This Table shows that the crew's quarters were occupied by 1,766 seamen, for whom only 594 bunks were provided, and a few cots and hammocks.

Many of the hammocks were improvised out of gunny bags, the remainder of the occupants had to sleep on the floor or on their boxes.

The facts were reported in the first instance to the Board of Trade, and representations were made to the owners, and hammocks sufficient in number have been supplied to each vessel, but as they are only issued to the men on request, the deficiency of sleeping accommodation continues.

The crews in these vessels are natives of India, whose standard of comfort is usually lower than that possessed by Europeans, but the fact that rough wooden cots were erected in some of the vessels by the crew, and also that gunny bags had been improvised as hammocks, would indicate that if the proper number of hammocks were hung in the quarters, the crew would make use of them.

#### DEATHS OF SEAMEN FROM DISEASE.

I have extracted the following information from the official returns issued by the Board of Trade, of the deaths from all causes of seamen belonging to merchant vessels registered in the United Kingdom, which were reported to the Board of Trade during the year ended the 30th June, 1913.

As to the sources of information, the Report states that :-

The particulars relating to deaths of seamen are obtained from depositions and formal inquiries in respect of wrecks and casualties, inquiries held by Superintendents of Mercantile Marine Offices, Consuls and Colonial Officers, entries in official log books, &c. . . . , but the classification of deaths from disease necessarily depends in some cases on opinions and inferences of persons who have had no special medical training. It is not, therefore, proposed that the figures relating to deaths from disease should be accepted as exact statistics, but it is considered that they are sufficiently accurate to be of use when questions arise relating to the origin or prevalence amongst seamen of particular maladies.

#### TABLE XXXIX.

Causes of Deaths.		Sea: For	ul Deaths o men, Britis eign, on S Steam V	h and ailing	Deaths after Discharge.		Grand Total.
Zумотіс—							
Enteric Fever			45		18	***	63
Small-pox		***	3		1		4
Yellow Fever		***	1		- 111		1
Cholera			17	***	5		22
Plague		***	5		100-		5
Plague (bubonic)			2		-		2
Other Zymotic Diseases			10		4		14
Simple and Ill-defined Fev	ers		10		2		12
Remittent and Intermittent	Fevers		3		-		3
Malarial Fever and Malari	a		51		5		56
Blood Poisoning		***	11		5		16
Beri-Beri			25		2		27
Venereal Diseases			10		3		13
Constitutional Diseases—							
Tuberculosis (General)	-		22		12		34
Rheumatism and Rheumati	ic Fever		3		177		3
Cancer			12		5		17
	Forward		230		62		292

Causes of Deaths.	Sean	al Deaths nen, Britis eign, on Si l Steam Ve	n and ailing	Deaths after Discharge.		Grand Total.
Brought forward		230		62		292
DISEASES OF THE NERVOUS SYSTEM-						
Apoplexy		29		1		30
Inflammation of the Brain		11		1		12
Heat Apoplexy and Heat Stroke		20		1		21
Sunstroke		1		1		2
Other Diseases of the Brain		5		3	***	8
Paralysis		4		1		5
Other Diseases of the Nervous System	***	6		2	***	8
Lunacy and Insanity		8		4		12
Alcoholism		6		-		6
Opium	***	8	***	-	***	8
DISEASES OF THE CIRCULATORY SYSTEM-						
Diseases of the Heart		142		20		162
Other Diseases of the Circulatory System		5		2		7
DISEASES OF THE RESPIRATORY SYSTEM-						
Phthisis		79		18		97
Pneumonia	***	92		21	***	113
Bronchitis		14		2	***	16
Pleurisy Other Diseases of the Respiratory System		10		2		12
		21	***	6		27
DISEASES OF THE DIGESTIVE SYSTEM—						
Diseases of the Stomach (Gastritis, &c.) Diseases of the Intestines (Enter	itis,	24	***	2		26
Peritonitis, Appendicitis, &c.) Diseases of the Liver (Jaundice, Hepat	itis,	56		10		66
Cirrhosis, &c.)		17		6		23
Diarrhœa and Dysentery		29		5		34
Other Diseases of the Digestive System		1		1		2
DISEASES OF THE URINARY SYSTEM-						
Diseases of the Kidneys (Nephritis, Uræmi	a. &c.)	23		4		27
Bright's Disease		4	-	1		5
Other Diseases of the Urinary System		5		1		6
. Dropsy		7		100		7
DEBILITY, OTHER ILL-DEFINED AND UNKN DISEASES—						
Debility		22		2	***	24
Other and Ill-defined Diseases		37		1		38
Unknown Diseases		4		3		7
				100		7.100
		920		183		1,103

From the above figures it will be seen that the causes accounting for the largest number of deaths from disease, are as follows:—

			hs from Disease	
Diseases of the Heart		162	 14.6	
Pneumonia		113	 10.2	
Tuberculosis and Phthisis		131	 11.8	
Total from Diseases of the Respiratory System	a	265	 24.0	
Total from Diseases of the Digestive System		151	 13.6	
Total from Zymotic Diseases		238	 21.5	

Excluding diseases of the heart, it will be seen that the number of deaths attributed to tuberculosis and phthisis, is larger than that of any other disease—pneumonia coming next with 113, while the total deaths from diseases of the respiratory system were 265, or 24 per cent. of total deaths from disease. This proportion of deaths in a class of men which are leading an open-air life is striking, and the prevalence of such diseases amongst them is no doubt largely encouraged by the want of ventilation in the quarters in which many of them are compelled to sleep and live, when not actually on deck.

The total number of deaths from "zymotic diseases," under which heading is included the generally known infectious fevers, &c., is 238, or 21.5 per cent. of the total. Of these diseases, enteric fever accounts for 63 deaths, and malaria for 56. The number of deaths from venereal disease is only 13, as men rarely die from this disease on board ship, and the figure gives no indication as to the number of cases which have occurred amongst seamen during the year.

Diseases of the digestive system which account for a total of 151 deaths, or 13.6 per cent., include all the well-known diseases of the digestive tract, a discussion of which would be beyond the limits of space in this Report.

#### PORT OF LONDON.

The limits of the Port of London as at present defined commence at High Water Mark in the River Thames at Teddington Lock, in the County of Surrey, and extend down both sides of the River Thames to an imaginary straight line drawn from the Pilot Mark at the entrance of Havengore Creek, in the County of Essex, to the Lands End at Warden Point, in the Isle of Sheppey, in the County of Kent, such point being the North-Western limit of the Port of Faversham, and shall extend up and include both sides of the River Medway to an imaginary straight line drawn from the South-East point of land Westward of Coalmouth Creek, thence across the said River Medway to the Westernmost point of the piece of land which forms the Eastern side of the Stangate Creek, or, in other words, the North-West point of Fleet Marsh, and from thence in a Southerly direction to Iwade Church, in the said County of Kent, and thence in a North-easterly direction to Elmley Chapel, in the said Isle of Sheppey, a supposed direct line from Elmley Chapel, to Iwade Church, being the Western limit of the Port of Faversham, and the said Port of London shall include the Islands of Havengore Creek aforesaid, called Potton and Rushley Islands, and so much of the said Creek and watercourse as extends from it to the town of Rochford, and shall also include all other islands, rivers, streams, creeks, waters, watercourses, channels, harbours, docks and places within the before-mentioned limits contained. (See page 83.)

#### POPULATION OF THE PORT.

The number of persons actually living within the Port, on vessels, is always of interest, and the opportunity afforded by the Census 1911 has been taken, with a view to furnishing your Committee with some information as to the resident population of the Port, as distinct from the larger working population which flows and ebbs daily.

According to the Census returns, the number of persons enumerated on board sea-going and coasting merchant vessels, and on inland barges and boats, in the counties of London, Middlesex, Surrey, Essex and Kent, but within the district of the Port of London Sanitary Authority, was 9,710 on 1,296 vessels.

At the previous Census in 1901, the numbers were 9,166 persons on 1,299 vessels

The close comparison, not only with regard to the number of vessels, but the number of persons in occupation, is interesting, and as I pointed out in discussing the Census of 1901, that in 1874 soon after the Authority was constituted, the then Medical Officer of Health (Dr. Leach) estimated that the average number of vessels in Port at any one time was 1,000, and the population probably 9,000—a very close estimate.

The figures tend to show that the number has not fluctuated very greatly during the past fifty years, either in the number of vessels in the Port at any one time, or of the number of persons resident on the same.

On the last occasion I was able to give some information of the proportion of British, Foreign, Colonial and other classes of vessels, and of the number of females living on board vessels, but on this occasion the method of tabulation adopted does not furnish these particulars.

I append a list showing the counties, parishes and administrative areas abutting upon the district of the Port of London Sanitary Authority, and the number of vessels and persons enumerated in each.

The figures quoted here do not include any persons on His Majesty's ships.

The Port, like the City of London, represents a huge day working area, and a day Census, showing the number of persons employed would, if practicable, be of interest and value.

#### TABLE XL.

#### PORT OF LONDON POPULATION.

Number of persons enumerated on Vessels within the limit of the Port of London.

Extracted from Census Returns, 1911.

County	y.		Par	ish.					Vessels.	Persons.
Middlesex	-	-	Brentford U.D	_						
			New Brents	ord		-	2	-	34	150
			Old Brentfo	rd-	-	- 2	1	-	2	4
			Chiswick U.D. a	nd C.P.	-	-		-	4	8
			Heston and Islev	worth U.	.D.—Isle	worth	-	-	24 -	81
			Twickenham U.I	). and (	).P.	-	-	-	1	2
Surrey	-	-	Ham U.D. and (	J.P.	-	-	-	-	1	3
			Richmond M.D.	-Kew	-	-		-	2	2
			Barnes U.DM	ortlake	-	-		-	2	4
London	-	-	Left Bank—							
			Hammersmith	-	-	-	1	-	1	3
			Fulham -	-	-	- 4	-	-	5	8
			Chelsea -	-	-	-	-	-	3	7
									-	-
				Carried	forward	-	-	-	79	272

County.	Parish.					Vessels.	Perso
Manual ball bar	Brought	forward	-		-	79	272
London (continued)	- Westminster—						
	St. George's, Hand				-	6	11
	St. Margaret and S	St. John	-	-	-	8	13
	City of London	-	-	-	-	20	190
	Stepney—						
	St. George in the		-		-	22	168
	St. Botolph (With	out), Al	dgate	-	-	26	321
	Shadwell -	-	-	-	-	17	141
	Wapping -	-	-	-	-	22	310
	Rateliff -	n- he	-		-	14	122
	Limehouse -	-	-	100	0.50	30	157
	Poplar M.B	-	-		-	149	1,005
	Right Bank-						
	Wandsworth -	-		-	-	7	13
	Battersea -	-	-			15	32
	Lambeth -	IL ELL		_		15	30
	Southwark M.B.—						
	Christehurch		_			11	19
	St. Saviour's				interior	6	11
	Bermondsey -					105	699
		-	-		-	8	16
						1	1
	Deptford -	-	-	-	-	1	
	Greenwich M.B.—	,				10	10
	Charlton and Kidl	rooke	100	1	1000	19	163
	Greenwich -	-	-		1115	42	140
	St. Nicholas, Dept	ford	-	-	-	12	5
	Woolwich M.B.—						
	Woolwich -	-	7 4	-	-	67	363
	Plumstead -	-	-	-	-	7	4:
Ssex -	West Ham -	-	-	-	-	69	71
	East Ham	-	-	-	-	43	43
	Romford R.D.—						
	Dagenham -	-	-	-	-	8	8.
	Rainham -	-	-	-	-	4	10
	Barking		-	-	-	20	5
	Grays Thurrock -	-	-	-	-	25a	73
	Orsett R.D.—						
	Chadwell -	DO NOT				21	57
	Corringham -		AL THE			12	2:
						6	2
	East Tilbury -		or spirit			2	
	Fobbing -	-	-			2	9
	Little Thurrock	-		To line		1	
	Mucking -		7.5	10.500	-		1
	Stanford-le-Hope	5100		1 5	HOUTE	4	1
	Stifford -		STOLL.	195		3	
	West Thurrock		17.0	-		166	43
	Billericay R.D.—Pitsea	7	7	-		2	
	Rochford R.D.—						
	Canvey Island	-	17	-	-	7	40
	Great Stambridge	-	-	-	-	1	
	Great Wakering	-	17	-	-	2	
	Hadleigh -	-	-	-		2	
							-
	Carried t	4 4				978	6,548

<sup>(</sup>a) Includes Training Ship "Exmouth," 663 persons.(b) Includes Reformatory School Ship "Cornwall," 295 persons.

County.	Parish.					Vessels.	Persons.
	Brought	forwar	d -	-	-	978	6,548
Essex (continued)	- Rochford R.D. (continued	)—					
	Little Stambridge	-	-	-	-1	3	6.
	Paglesham -	-	-	-	-	4	4
	South Benfleet	+	-	-	-	5	10
	South Fambridge	-	-	-	-	1	1
	Sutton -	-		-	-	1	2
	Leigh	-	+		-	10	23
	Southend-on-Sea M.B.—						
	Prittlewell -	-	-	-		40	127
	Southchurch -	-	-	-	-	2	4
	South Shoeburyness	-	-	1	-	3	6
Kent -	- Dartford R.D						
	Dartford -	-	-	-	-	1	1
	Crayford -	_	-	-	-	2	4
	Stone	-	-	-	-	19c	299e
	Swanscombe -	-	-	-	-	33d	483d
	Erith	-	-	_		30	153
	Northfleet	-	-		-	21	96
	Gravesend M.B.—						
	Gravesend -	-	-	-	-	25	184
	Milton -	-	-	-	_	27	78
	Strood R.D.—						1130
	Chalk	-	-	-	-	4	9
	Cliffe	-	-	_		10	27
	Denton -	-	-			6	27
	Frindsbury Extra	-		10/2/10	-	14	75
	Halling -		-	-	-	5	8
	Higham -	-	-		-	3	3
	Hoo R.D.—						
	Alihallows -	_	-		-	2	4
	Hoo	-	-			4	8
	Isle of Grain-		-	_	-	7	14
	Stoke	-	-	-	-	1	1
	Sheppey R.D.—					*	
	Emley -	-	-			3	6
	Minster in Sheppey	3	-	-	_	3	4
	Queenborough -		-	-	-	17	408
	Sheerness		-	-	-	32	87
						-	
	CENSUS 1901	-	-	-	-	1,299	9,166
							-

#### LAUNCHES.

The new motor launch "George Briggs" was delivered in October, and has done good work since in inspection of vessels lying in the Upper District. The launch fulfils all requirements in that district, is easily handled and speedy. Being of shallow draught the advantages in this respect over the old steam launches have already been proved. Creeks can now be visited, also vessels lying in shallow water during the ebb tide.

The steam launch "Denton" has been sold, and the "Clotho" is at present, pending sale, being used as a reserve. For this the old launch is very useful, being a good sea-boat, can be used even in bad weather on the Gravesend Station when the larger launches have to lay-by for overhaul.

#### BARGE "THOMAS."

#### FUMIGATING APPARATUS.

The fumigating plant was used on eight occasions during the year, the largest ship fumigated being one of 10,750 tons, with a cubic capacity of 652,000 cubic feet.

Date.	Nam	ne of V	essel.				Capacity in Cubic Feet.
1913.							
April 19th	s.s. "Themistocles"		-	-	-		551,573
May 27th	s.s. " Mongolia" -	-	-	-	-	-	186,688
,, 29th	s.s. " Ixia "	-	-	-	-	-	128,000
June 14th	s.s. "Norseman" -	-	-	-	-	-	652,800
" 17th	s.s. " Persia" -	-	-	-	-	-	154,780
Aug. 2nd	s.s. "India" -	-	-	-	-	-	126,620
" 14th	s.s. " Stag " -	-	-	-	-	-	121,370
Sept. 4th	s.s. "Paris" -	-	-	-	-	-	43,500

I have received a letter from the Port of London Authority, dated 30th July, 1913, in which it is stated that the Dock and Warehouse Committee have authorised that, until further notice, the fumigating craft of the Port of London Sanitary Authority shall be exempt from dock dues when entering the docks for the sole purpose of fumigating vessels.

#### STAFF.

The following short remarks deal with the principal changes and modifications that have occurred in the Staff during the year.

Medical Officers.—Dr. Legge, Sheerness, who had been ill and off duty, was able to resume duty in April, and has since continued to perform the usual duties carried out by him, some special remarks on which will be found in that section of the Report dealing with medical inspection at Sheerness.

Inspectors.—I have to report with regret the loss in November, by death, after a long illness, of Inspector W. G. Romeril. He was the senior Sanitary Inspector, and had been in the service of the Corporation since 1892, being 54 years of age at the time of his death. He was an exceptionally intelligent, capable, loyal and industrious officer, and took an active interest in all matters appertaining to his duties—and was a contributor to current literature on the subject of sanitation on board ships. Some years ago he published a work entitled "Sanitation in the Mercantile Marine," which was a useful addition to literature on this subject.

Office.—James G. Godden, Junior Clerk, resigned his position in December in order to take up an appointment abroad. He had been in the service three years, having joined in 1910.

LAUNCHES.—A. E. Topping, deckhand of the "Denton," resigned his position in March, and the vacancy was filled by J. Baulsom at commencing wages of 16s. per week.

Owing to the acquisition of a motor launch, the services of W. Shaw, deckhand, were dispensed with in November.

Hospital.—Miss Hoare, Senior Assistant Nurse, resigned her position in March, and Miss G. G. Jones was appointed to fill the vacancy. Miss Jones resigned in September, and Miss A. A. Foggo was appointed to the vacancy.

Miss F. Cork, Junior Assistant Nurse, who contracted Enteric Fever in November, 1912, returned to duty in February. She resigned her position in November, and Miss A. Densham was appointed to fill the vacancy.

Emma Accleton and Ethel Harling were appointed in January, as Cook and Housemaid respectively. They resigned their positions in October, and the vacancies were filled by Ellen Hutson and Florence Ambrose.

### CANAL BOATS ACTS.

In accordance with Section 3 of the Canal Boats Act, 1884, I beg to present herewith my Annual Report on the working of the Canal Boats Acts and Regulations within the district of the Port of London Sanitary Authority, during the year ending 31st December, 1913.

The Acts and Regulations apply within the whole of the district under the jurisdiction of the Port of London Sanitary Authority, including the river and docks—as a "canal," for the purposes of the Act, includes any river, inland navigation, lake, or water being within the body of a county, whether it is or is not within the ebb or flow of the tide.

The navigation in addition to the enclosed docks, includes the following navigable tributary waters and creeks of the River Thames:—

On the right bank from Teddington downwards :-

Wandsworth Creek (River Wandle).

Part of the Grand Surrey Canal within the Surrey Commercial Docks.

Hay's Dock.

St. Saviour's Dock.

Deadman's Dock.

River Ravensbourne (Deptford Creek).

Rivers Cray and Darenth (Dartford Creek).

The entrance to the Gravesend Canal.

Cliffe Creek.

Yantlet and Coalmouth Creeks.

Part of the river Medway, and of the Swale.

On the left bank from Teddington downwards :-

The entrance to the River Brent.

Chelsea Dock.

Grosvenor Dock.

Limekiln Creek.

Part of the River Lea.

Barking Creek.

Rainham Creek.

Mucking Creek.

Thames Haven.

Hole Haven.

Potton and Rushley Creeks.

River Roach as far up as Rochford.

The whole of this area is divided into three districts, known as the Upper, Middle and Lower, each district being in charge of an Inspector, as follows:—

#### RIVER.

UPPER DISTRICT.

Teddington to Greenwich.

Inspector Burr -

208l. per annum.

MIDDLE DISTRICT.

Greenwich to Erith.

Inspector Elward

175l. 10s. per annum.

LOWER DISTRICT.

Erith to seaward limits of the Port of London (including part of the River Medway).

Inspector Shepherd

- 148l. 4s. per annum.

The Docks are divided into four districts, known as the Central, Eastern, Western and the Gravesend district.

It has been found advisable to sub-divide these districts, and instead of one Inspector to each, two have been appointed to the Western, and two to the Eastern district, as follows:—

CENTRAL DISTRICT.

West India Dock.
South West India Dock.
Poplar Dock.
Millwall Dock.

Inspector Lambe

201l. 10s. per annum.

EASTERN DISTRICT.

Royal Victoria Dock. East India Dock.

Inspector Garland - - 2081, per annum.

Royal Albert Dock.

Inspector Wetjen - - 208l. per annum.

WESTERN DISTRICT.

London Dock. St. Katherine's Dock. Regent's Dock.

Inspector Hopkins

208l. per annum.

Surrey Commercial Dock.

Inspector Rolfe

201/. 10s. per annum.

GRAVESEND DISTRICT.

Tilbury Dock. Left Shore, from Purfleet down. Right Shore, from Erith down.

Inspector Massie

169l. per annum.

(2) The total number of inspections for the year was 576, representing a net number of 451 boats. The remainder, 125, represents repeated visits by Inspectors of this Authority.

The number of the boats not conforming to the Acts and Regulations was 53, or 9.20 per cent. of the total, the percentage for the previous five years being 6.96 per cent.

In addition to the above, 26 boats were at the time of visit found with the cabin doors locked, there being no person on board. Inspection was therefore impossible, and these visits are not included in the number of boats inspected.

(3) With reference to the various infringements of the Act:-

## (a) Unregistered Boats.

The following boats were found, on inspection, to be unregistered within the meaning of the Act.:—

Date.		Nan			Registr	ation A	nthori	Reason for Registration of Re-registration.						
Jan	-	" William "	-	-	-		-	-				-	-	-
Jane -		" William "	_		-	-		-	-	-			-	-
March - Aug		"John" "Industry"		-			Birmin Port of		on.	-		Boat.		

The "Industry" was registered with this Authority, and the "John" is under registration by the Birmingham Registration Authority.

In the case of the "William," the boat has not been met with since June. The owner states that it is not used as a residence. An opportunity will be taken of inspecting the boat when next in the port and ascertaining whether there is any evidence of occupation.

## (b) Notification of Change of Master.

None.

## (c) CERTIFICATES.

Absence of certificate was found in the following cases, a complaint being sent to the owners. In the case of the boats marked \* information was received that the Certificates were subsequently placed on board:—

```
1913.
Jan.
         5
              " " Mole " -
                                        registered Berkhamsted, No. 334.
              " " Crawford"
        11
                                                   Uxbridge, No. 412.
              * " Grace"
        30
                                                   Brentford, No. 315.
              * " Franklin "
April
        17
                                                   Berkhamsted, No. 338.
              " "Stanley " -
May
         2
                                                   Port of London, No. 271.
              * " Henley "
        20
                                                   Uxbridge, No. 458.
              " " Don "
        22
                                                   Port of London, No. 357.
              † " Caledonia "
                                                                  No. 420.
June
        23
                                                             **
              † " Britannia "
        23
                                                                   No. 418.
              † " Wales " -
        23
                                                                   No. 410.
  22
              * " Henley " -
        25
                                                   Uxbridge, No. 458.
             " " Grantham "
July
        14
                                                   Birmingham, No. 1259.
             * " Sarah " -
        30
                                                   Berkhamsted, No. 408.
 22
Oct.
              * " Sarah " -
        16
                                                              No. 408.
             " " Sarah and Eliza "
        30
                                                   Uxbridge, No. 382.
             " "Henley "
        22
Nov.
                                                      .. No. 458.
         6
               "Wandle "-
Dec.
                                                   Berkhamsted.
                † Under re-registration by this Authority.
```

In the following cases, the Certificates produced did not identify the owner with the boat:—

```
‡ "John"
Jan.
       31
                                       registered Brentford, No. 59.
June
       23
             § "England"
                                                 Port of London, No. 409.
        2
             t "Jane"
Sept.
                                                 Reading, No. 41.
              "Brimo" -
Dec.
                                         " " No. 20.
                † Remedied.
                § Under re-registration by this Authority.
```

#### (d) MARKING.

The following boats were found infringing in this respect :-

```
March 10 tt "James" -
                                 - registered Brentford, No. 322.
April
              "Joseph" -
                                                 " No. 363.
           §§ " Caledonia "
       23
June
                                              Port of London, No. 420.
       2
            . "Jane" -
Sept.
                                              Reading, No. 41.
                                        **
       14
              "Sarah"
Oct.
                                              Stepney, No. 4,
Nov.
      14
           "Sarah" -
                                              Berkhamsted, No. 408.
Dec.
              "Wandle"
                                             Berkhamsted.
```

‡‡ Remedied subsequently.

§§ Under re-registration by this Authority.

#### (e) OVERCROWDING.

This was found in the case of one boat, as follows:-

The canal boat "Samuel," registered Brierley Hill, No. 190, was inspected on the 21st October. The fore cabin, which is registered for two persons, was in a very leaky condition and quite unfit for habitation. The after cabin, registered for two adults, was occupied by two adults and three children. A complaint was sent to the owners.

The boat has since been met with, but I have received a letter from the owners stating that the boat is "laid up" and uninhabited. The complaint with regard to overcrowding is thus remedied.

## (f) SEPARATION OF SEXES.

The following case was met with :-

The canal boat "Albert," registered Berkhamsted, No. 314, was inspected on the 27th October, when the after cabin was found to be occupied by a man and his wife, and a female person over the age of 12 years. A complaint was sent to the owners on the 1st November, and on the 17th December I received information that the infringement had been duly remedied.

## (g) CLEANLINESS.

The following boats were found to require cleansing, and those on which the necessary improvement was made are marked \* accordingly :—

```
*" Mole" - -
                                 - registered Berkhamsted, No. 334.
Jan.
           "" Sarah and Eliza"
       30
                                              Uxbridge, No. 382.
           *" John "
                                              Brentford, No. 59.
 15
       22
           "Warwick"
April
                                              Wolverhampton, No. 917.
May
        1
           *" Mary Ann"
                                              Port of London, No. 458.
           "" Stanley " -
                                                           No. 271.
           *" Twaddell "
       9
                                              Brentford, No. 227.
           *" Hilton" -
July
       31
                                              Ware, No. 53.
                                         **
          *" Livingstone"
Sep.
       30
                                              Berkhamsted, No. 325.
Oct.
       27
           *" Albert" -
                                                           No. 314.
          "" Humber"
Dec.
                                                           No. 433.
```

# (h) VENTILATION.

The following boats were found to require better ventilation, or some repair.

Those in which the alterations have been made, are noted\*:—

```
1913.
             "Joseph"
Jan.
       27
                                      registered Berkhamsted, No. 363.
       28
             " Nellie "
                                                Brentford, No. 192.
             " William " -
       30
                                      (unregistered).
            *" Cicero"
Feb.
                                      registered Reading, No. 21.
       25
            *" Warwick " -
                                                Wolverhampton, No. 917.
March
       18
            *" Colne "
                                                Berkhampsted, No. 333.
           *" Rose "
       18
                                                Wolverhampton, No. 966.
            *" Warwick" -
April
       22
                                                                No. 917.
            *" Andree "
       28
                                                Berkhamsted, No. 255.
        2
           *" Stanley "
May
                                                Port of London, No. 271.
           *" Rhodes"
                                                  " " No. 203.
           *" Twaddell " -
                                                Brentford, No. 227.
           "" Albert "
                                                Berkhamsted, No. 314.
            *" Alice "
       16
                                                Port of London, No. 5.
       16
            "Humber" -
                                                Berkhamsted, No. 433.
            "Wales" -
                                                Port of London, No. 410.
            "George and James"
        5
                                                Brentford, No. 42.
June
        6
            *" Andree "
                                                Berkhamsted, No. 255.
            *" Rhodes"
                                                Port of London, No. 320.
  22
            " Brimo "
        9
                                                Reading, No. 20.
            "Rebecca" -
       16
                                                Brentford, No. 66.
            *" Britannia " -
       23
                                                Port of London, No. 408.
            " Wales"
       23
                                                 " No. 410.
       25
           *" Henley " -
                                                Uxbridge, No. 458.
  25
```

```
1913.
July
             " Diligent " -
                                      registered Brentford, No. 65.
             "Glendower"
        10
                                                 Port of London, No. 457.
99
            *" Jane "
Sept.
        2
                                                 Reading, No. 41.
             "Livingstone"
       30
                                                 Berkhamsted, No. 325.
         3
            *" Prudence "-
                                                 Ware, No. 38.
Oct.
            *" Erie"
        7
                                                 Brierley Hill, No. 231.
        14
            "Sarah"
                                                 Stepney, No. 4.
             "Samuel"
                                                 Brierley Hill, No. 190.
       21
            *" Providence"
        22
                                                 Ware, No. 46.
            "Diligent" -
       27
                                                 Brentford, No. 65.
            *" Albert"
       27
                                                 Berkhamsted, No. 314.
Oct.
       29
            *" Dufferin " -
                                                  " No. 347.
       31
            "" King"
                                                 Reading, No. 39.
            *" Sarah "
                                                 Berkhamsted, No. 408.
Nov.
        6
       14
            *" Sarah "
                                                 " No. 408.
 99
             " Alice "
                                                 Brentford, No. 305.
       24
Dec.
        1
             "Brimo"
                                                 Reading, No. 20.
        3
                                                 Berkhamsted, No. 325.
             " Livingstone "
       17
             "Kuroki"
                                                 Port of London, No. 428.
```

## (i) PAINTING.

17 boats were found to require painting with regard to the interior of the cabin, which was done in the cases marked \*:—

```
1913.
             "Joseph" -
Jan.
       27
                                       registered Berkhamsted, No. 363.
        22
             "Warwick" -
                                                  Wolverhampton, No. 917.
April
             " Joseph "
                                                  Berkhamsted, No. 363.
        26
 22
         2
            *" Stanley " -
                                                  Port of London, No. 271.
May
        9
            *" Twaddell " -
                                                  Brentford, No. 227.
             "George and James"
                                                            No. 42.
June
        5
             "Rebecca" -
                                                            No. 66.
        16
            "" Hilton "
                                                  Ware, No. 53.
July
       31
            *" Jane "
                                                  Reading, No. 41.
Sept.
         2
            "Livingstone"
                                                  Berkhamsted, No. 325.
       30
 . 99
                                            22
            *" Prudence "-
                                                  Ware, No. 38.
Oct.
        3
             " Sarah "
                                                  Stepney, No. 4.
        14
             "Samuel"
                                                  Brierley Hill, No. 190.
       21
            *" Sarah "
                                                  Berkhamsted, No. 408.
Nov.
        6
        24
            " Alice "
                                                  Brentford, No. 305.
         3
             "Livingstone"
                                                  Berkhamsted, No. 325.
Dec.
             " Leslie "
                                                  Brierley Hill, No. 229.
        12
```

## (j) Provision of Water Cask.

The following boats were not provided with proper water vessel for containing water for drinking. In 4 cases I received information that this has been done:—

```
1912.
        5 *" Mole "
Jan.
                                      registered Berkhamsted, No. 334.
                                                             No. 333.
March 18
            "" Colne "
                                                Daventry, No. 296.
April - 15
            "" Walter "
            *" Friendship "
                                                Birmingham, No. 1,280
        15
 99
            "Humber" -
                                                Berkhamsted, No. 433.
       16
May
            "Livingstone"
                                                             No. 325
       30
Sept.
                                           99
Dec.
             "Wandle" -
                                                             No. 327
        6
                                                     22
             "Leslie" -
                                                Brierley Hill, No. 229
       12
```

## (k) REMOVAL OF BILGE WATER.

In the following 4 cases, the bilges were found to be in a filthy condition.

\* Reported to be remedied:—

1913.

 Jan.
 5
 \*" Mole"
 registered Berkhamsted, No. 334.

 March
 18
 \*" Colne"
 ,
 No. 333.

 May
 28
 \*" Wales"
 ,
 Port of London, No. 410.

 June
 5
 "George and James"
 ,
 Brentford, No. 42.

# (1) Notification of Infectious Disease.

No case of infectious disease was notified to me during the year, on board any canal boat.

## (m) Admittance of Inspector.

No difficulty has been experienced in regard to the visits of the Inspector of this Authority.

- (4) No legal proceedings were necessary during the year.
- (5) The total number of infringements found was 119 on 53 boats. Formal notice of each infringement was at once given to the owners, and in many cases were remedied without further complaint.

The number of written notices was 59, and the number which has been certified as attended to was 55. This number includes 19 orders made in 1912 and reported remedied in 1913. Of the complaints issued in the year now under review, 61.00 per cent, were remedied.

- (6) Double Bulkheads—There were no infringements with regard to the provision of these.
  - (7) No boats have been detained for cleansing.
  - (8) On December 31st, 1913, there were 254 boats on the Register:-

Propelled	by	Tug and Oars	-		-	237
"	22	Steam -	-		-	15
"	"	Motors -	-	-	-	2
						254

(9) Three boats were registered in 1913. These were new boats.

#### TABLE OF CANAL BOATS CARRYING CHILDREN ON BOARD.

Year.			No. of boats.	No. of boats with children.	No. of children.	Average No. of children per boat,	Average No. of boats with children.
1908	-	-	1,168	206 -	459	2.18	17.63
1909	-	-	1,432	219	495	2.26	15.29
1910	-	-	908	172	354	2.05	18.94
1911	-	-	926	173	400	2.31	18.03
1912	-	-	841	197	409	2.07	23.42
1913	-	-	451	61	196	3.21	13.52

I have the honour to be, GENTLEMEN,

Your obedient Servant,

Herbert Williams.

Medical Officer of Health, Port of London.

TABLE XLL SUMMARY OF CANAL BOATS FOR THE YEAR ENDING 31st DECEMBER, 1913.

	January.	February.	March.	April.	Hay.	June.	July.	August.	September.	October.	November.	December.	TOTAL.		1909.		YEAR 1911.	1912.
New boats registered Registration owing to structural		1			1				1				3			2	6	2
alterations Registration for other purposes														1	1	1		
Inspected	51	44	58	55	56	57	70	12	25	66	48	89	576	1,110	1,379	878	889	817
Regulations	48	42	-49	49	46	46	65	11	23	55	44	33	506	1,066	1,289	807	800	692
Infringements in respect to :-			1			3.												
Registration	1	***	1	***		1	***	1	***		***	***	4	2		4	8	9
Notification of change of master	***	***	***	***		***		***	***			***	1.77		***	1	2	***
Absence of certificate Certificate not identifying owner	3	****	***	1	3	4	2	***		2	1	1	17	22	9	20	44	34
with boat	1	***	***	***		1	***		1		***	1	4	13	5		2	5
Marking, &c			1	1		1			1	1	1	1	7	14	20	9	18	11
Overcrowding		***		***	****					1			1	5	3	2	5	5
Partition separating sexes			***								1					1	***	2
Males over age				***											***			2
Females over age										1			1		***			
Cleanliness	8			1	3		1		1	1		1	11	30	20	14	12	23
Painting	1	***		2	2	2	1		2	3	2.	2	17	2		9	19	17
Ventilation	1				1	3	1						6	1	2	3	5	8
Dilapidation	2	2	2	2	6	7	1		2	9	3	3	89	31	46	27	33	68
Removal of bilge water	1		1		1	1 .							4				1	3
Without pump									-									
6 4 1 T T T T				189													100	
	1		1	2	1				1		1 3200	2	8	10	6	5	9	9
No proper water vessel			1						1		***			1				
Without double bulkhead	***	***	***		***	***	***	***	***	***		***			***	***	***	***
Notification of infectious disease	***	***	***	***	***	***	***	***	***	***	***	***	***	***	1111	***	2.44	***
Detained for cleansing													***					
Proceedings taken	***	***	***	***		***			***	***	***	***	***		***	***	1	**
Cautions given	6	2	8	5	8	9	4	1	2	9	4	6	59	76	80	33	70	97
" attended to	4	4	9	7	4	5	3	3	1	5	5	5	55	71	80	46	49	74

Total registered by Port Sanitary Authority since 1887 ... Cancelled ... ... ... ... ... ... ... ... 461 ... 207

254 Actual number on the Register, 31st December, 1913

Registered for 2,154 persons. Carrying 926 men. 205 women. 196 children.

Cr.

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Salzien, Nr. 1  Ir. H. Williams, Medical Officer of Health  Ir. M. Williams, Medical Officer of Health  Ir. H. Williams, Medical Officer of Health  Ir. W. M. Williams, Medical Officer of Health  Ir. W. D. Briesson  Ir. W. J. Allowe, Cark  Ir. Sold  Ir. W. J. Allowe, Cark  Ir. Sold  Ir.	Assistant Medical Officers: — Dr. W. M. Willoughby, J. S. Warrack, W. M. Willoughby, W. M. Willoughby, W. D. Betenson, E. V. Legge, A. Kidd Locum Tenens  W. J. Albrow, Clerk  Uniforms Fidelity Guarantees National Health Insurance Valent Guarantees Wages, per Dr. Williams, viz.:— Offices Inspectors Launch Orews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Disbursements, per Dr. Williams, Petty Cash Expenses, Inspector Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1	£400 400 109 400 350 870 138 1 £ 94 1 2 233 Pensions	0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	1,000 2,163 295  478 2,795 1,377 289  328 169 52	1 6 0 0 0	3,458 129 1 18 4,944	3 1 16 3 11 16 3 11 1 1 3 5 8	6 8 0 3 3 4 4 4	By Proceeds of Sale of Unsound Food (see contra) 1,900 10 7  "Sundry Fees, viz.:—  Health Certificates 106 6 8  Metropolitan Asylums Board, under 1891 Act 0 3 6  Canal Boat Registration 1 7 6  Disinfections 135 4 0  243 1 8  "Grant from Home Office in respect of Medical Officer under the Aliens Act, 1905 753 17 0  "Refund of proportion of Medical Officer's Salary, &c., by Rochester Port Sanitary Authority 100 0 0  "Ditto, forwarding Telegrams 0 11 3  "Sundry Reimbursements 100 11 3  "Sundry Reimbursements 100 11 3
Dr. H. Williams, Medical Officer of Irealsh.   1,000 0 0   0   0   0   0   0   0   0   0	Dr. H. Williams, Medical Officers:  Dr. W. M. Willoughby.  J. S. Warrack.  W. M. Willoughby.  J. S. Warrack.  W. D. Betenson.  E. V. Legge.  A. Kidd.  Locum Tenens.  W. J. Albrow, Clerk.  Uniforms.  Fidelity Guarantees National Health Insurance Wagee, per Dr. Williams, viz.:— Offices.  Inspectors Launch Crews. Hospital Staff.  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Offic	und No. 1 No. 2 Fund re 1	£400 400 109 400 350 870 138 1 £ 94 1 2 233 Pensions	0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	2,163 295  478 2,795 1,377 289  328 169 52	1 6 0 0 0	3,458 128 18 4,944	3 13 1 16 3 11 9 13 5 8	8 0 8	Sundry Fees, viz. :
Assistant Madical Officers —	Assistant Medical Officers: — Dr. W. M. Willoughby, J. S. Warrack, W. M. Willoughby, W. M. Willoughby, W. D. Betenson, E. V. Legge, A. Kidd Locum Tenens  W. J. Albrow, Clerk  Uniforms Fidelity Guarantees National Health Insurance Valent Guarantees Wages, per Dr. Williams, viz.:— Offices Inspectors Launch Orews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Disbursements, per Dr. Williams, Petty Cash Expenses, Inspector Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1	£400 400 109 400 350 870 138 1 £ 94 1 2 233 Pensions	0 0 0 0 0 0 4 0 0 0 0 0 0 0 0 0 0 0 0 0	2,163 295  478 2,795 1,377 289  328 169 52	1 6 0 0 0	3,458 128 18 4,944	3 13 1 16 3 11 9 13 5 8	8 0 8	Health Certificates
Dr. W. M. Willengeldy £400 0 0 0	Dr. W. M. Willoughby, J. S. Warrack W. M. Willoughby W. D. Betenson E. V. Legge A. Kidd Locum Tenens W. J. Albrow, Clerk W. J. Albrow, Clerk Willough W. J. Albrow, Clerk Uniforms Fidelity Guarantees National Health Insurance Wages, per Dr. Williams, viz. :— Offices Inspectors Inspectors Hospital Staff Workmen's Compensation Contributions to Officers' Pension F Ditto Disbursements, per Dr. Williams, Petty Cash Expenses, Inspector Postage Stamps Sundry Office Expenses Contributions of Contributions to Officers' Pension F Ditto Williams, Petty Cash Expenses, Inspector Postage Stamps Sundry Office Expenses Contributions Expenses Sirve and Boiler Insurance Expenses of Steam Launches, Hul Insurance Water Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1	400 109 400 350 370 1183 1 £ 94 1 2 233 Pensions	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	295  478 2,795 1,377 289  328 169 52	0 0  10 0 15 10 0 9 6 9  0 9 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	Metropolitan Asylums Board, under 1891 Act   0   3   6   Canal Boat Registration   1   7   6   Disinfections   135   4   0
J. S. Warrack	" J. S. Warrack " W. M. Willoughby . " W. D. Betenson " E. V. Legge " A. Kidd Locum Tenens  Fidelity Guarantees National Health Insurance Wagee, per Dr. Williams, viz.:— Offices Inspectors Launch Crews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Offi	und No. 1 No. 2 Fund re 1	109 400 350 370 133 1		295  478 2,795 1,377 289  328 169 52	0 0  10 0 15 10 0 9 6 9  0 9 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	Disinfections
W. D. Between   400 0 0	W. D. Betenson  E. V. Legge  A. Kidd  Locum Tenens  W. J. Albrow, Clerk  Uniforms  Fidelity Guarantees  National Health Insurance  Wages, per Dr. Williams, viz.:—  Offices  Launch Crews  Hospital Staff  Workmen's Compensation  Contributions to Officers' Pension F  Ditto  Contributions to Officers' Pension F  Ditto  Contributions to Officers' Pension F  Offices  Gas Tenenwich, viz.:—  Rent  Rates and Taxes  Fire and Boiler Insurance  Telephone Rent  Gas  Furniture  Coal  Water  Expenses of Steam Launches, Hul  Insurance	und No. 1 No. 2 Fund re J	400 350 370 133 1		295  478 2,795 1,377 289  328 169 52	0 0  10 0 15 10 0 9 6 9  0 9 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	### Comparison of Medical Officer under the Aliens    Act, 1905
## E. V. Logge	E. V. Legge  " A. Kidd  Locum Tenens  W. J. Albrow, Clerk  Uniforms  Pidelity Guarantees  National Health Insurance  Wages, per Dr. Williams, viz.:—  Offices  Launch Crews  Hospital Staff  Workmen's Compensation  Contributions to Officers' Pension F  Ditto  Contributions to Officers' Pension F  Disbursements, per Dr. Williams,  Petty Cash Expenses, Inspecto  Postage Stamps  Sundry Office Expenses  Offices at Greenwich, viz.:—  Rent  Rates and Taxes  Fire and Beiler Insurance  Telephone Rent  Gas  Furniture  Coal  Water  Expenses of Steam Launches, Hul  Insurance	und No. 1 No. 2 Fund re 1	350 370 133 1    £ 94 1 2 233 Pensions	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	295  478 2,795 1,377 289  328 169 52	0 0  10 0 15 10 0 9 6 9  0 9 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	### Grant from Home Office in respect of Medical Officer under the Aliens  Act, 1905
## Act, 1909 ## Ac	W. J. Albrow, Clerk  Uniforms Fidelity Guarantees National Health Insurance Wagee, per Dr. Williams, viz.:— Offices Inspectors Launch Crews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1	270 133 1         	0 0 0 7 6	295  478 2,795 1,377 289  328 169 52	0 0  10 0 15 10 0 9 6 9  0 9 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	Act, 1905
Lectural Chemics	Locum Tenens  W. J. Albrow, Clerk  Uniforms  Fidelity Guarantees National Health Insurance Wages, per Dr. Williams, viz.:— Offices  Launch Crews  Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas  Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund rs 1	138 1	17 6	295  478 2,795 1,377 289  328 169 52	0 0  10 0 15 10 0 9 6 9  0 9 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	Refund of proportion of Medical Officer's Salary, &c., by Rochester   Port Sanitary Authority       100   0   0   0   0   0   0   0   0
W. J. Alrew, Clerk   20   0   0   100   10   100   10   10	Uniforms	und No. 1 No. 2 Fund re 1	£ 94 1 2 233 Pensions		295  478 2,795 1,377 289  328 169 52	0 0  10 0 15 10 0 9 6 9  0 9 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	Port Sanitary Authority 100 0 0  " Ditto, forwarding Telegrams 0 11 3  " Sundry Reimbursements 4 3  3,002 3 1
Distr.   Conversion   Programs   0   1   2   3   5   5   5   5   5   5   5   5   5	Uniforms	und No. 1 No. 2 Fund re 1	£ 94 1 2 233 Pensions		 478 2,795 1,377 289  328 169 52	 10 0 15 10 0 9 6 9  0 9 8 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	,, Ditto, forwarding Telegrams 0 11 3 100 11 4 3 4 3 3,002 3 1
Uniform   128   13   8   8   8   8   10   11   11   12   12   13   13   14   15   14   15   14   15   15   15	Fidelity Guarantees National Health Insurance Wagee, per Dr. Williams, viz. :— Offices Inspectors Launch Crews Launch Crews Hospital Staff Workmen's Compensation Contributions to Officers' Pension Pensions Disto  Distorsements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses Offices at Greenwich, viz. :— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Cosl Water  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re l	£ 94 1 2 233 Pensions		328 169 52 336 54	10 0 0 15 10 0 9 6 9 0 9 8 8 8 0 0	128 18 4,940	3 13 1 16 3 11 9 13 5 8	8 0 8	" Sundry Reimbursements 4 3 3 3 3,002 3 10
Figure   Comments   1   10   0	Fidelity Guarantees National Health Insurance Wagee, per Dr. Williams, viz. :— Offices Inspectors Launch Crews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension P Ditto  Contributions to Officers' Pension P Pensions Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz. :— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Cosl Water  Expenses of Steam Launches, Hul Insurance  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re l	£ 94 1 2 233 Pensions		328 169 52 336 54	10 0 0 15 10 0 9 6 9 0 9 8 8 8 0 0	4,946 18	16 11 11 11 11 11 11 11 11 11 11 11 11 1	0 8 4 4 4	3,002 3 1
National Hashi fourness	National Health Insurance Wages, per Dr. Williams, viz. :— Offices Inspectors Launch Crews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz. :— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1	£ 94 1 2 233 Pensions	17 1 3 8	478 2,795 1,377 289  328 169 52	10 0 15 10 0 9 6 9  0 9 8 8 0 0	4,946	) 13 5 8	4 4	
Offices   475   10   0   1   1   1   1   1   1   1	Offices  Inspectors Launch Crews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz. : Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1	£ 94 1 2 233 Pensions	 17 1 3 8	2,795 1,377 289  328 169 52 336 54	15 10 0 9 6 9  0 9 8 8 0 0	4,940	8	4	
Langelotes	Inspectors Launch Crews Hospital Staff  Workmen's Compensation Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension F Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance  Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund rs 1 riz.:— rs and oth	£ 94 1 2 233 Pensions	 17 1 3 8	2,795 1,377 289  328 169 52 336 54	15 10 0 9 6 9  0 9 8 8 0 0	4,940	8	4	n Excess of Expenditure over income
Launic Cress   1,277   0   9   1   1   1   1   1   1   1   1   1	Launch Crews Hospital Staff Workmen's Compensation Contributions to Officers' Pension F Ditto Contributions to Officers' Pension Pensions Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses Offices at Greenwich, viz. : Rent Rates and Taxes Fire and Boiler Insurance Telass Furniture Coal Water Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1	£ 94 1 2 233 Pensions	17 1 3 8	328 169 52 336 54	0 9 6 9 0 9 8 8 8 0 0	4,940	8	4	
Monpital Staff	Workmen's Compensation Contributions to Officers' Pension F Ditto Contributions to Officers' Pension F Ditto Contributions to Officers' Pension Pensions Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Cosl Water Water Expenses of Steam Launches, Hul Insurance	und No. 1 No. 2 Fund re 1 riz.:— rs and oth	£ 94 1 2 233 Pensions	17 1 3 8	328 169 52 336 54	 0 9 8 8 0 0	10	8	4	
Workmaris Compensation	Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	riz.:— rs and oth	£ 94 1 2 233 Pensions	17 1 3 8	328 169 52 336 54	0 9 8 8 0 0	10	8	4	
Contributions to Officers' Pension Fund No. 1 £ 94 17 1	Contributions to Officers' Pension F Ditto  Contributions to Officers' Pension Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	riz.:— rs and oth	£ 94 1 2 233 Pensions	17 1 3 8	328 169 52 336 54	0 9 8 8 0 0				
Ditto   No. 2 223	Oitto  Contributions to Officers' Pension Pensions  Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Beiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	No. 2	Pensions	3 8	169 52 386 54	8 8 0 0		9		
Contributions to Officers' Pension Fund re Pensions   228 0 9   Pensions   050 8 8   Pensions   050 0   Deletersments, per Dr. Williams, viz	Contributions to Officers' Pension Pensions Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses Offices at Greenwich, viz.:— Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Cosl Water Expenses of Steam Launches, Hul Insurance	Fund re l	Pensions		169 52 386 54	8 8 0 0		9		
Denotors	Pensions	riz.:— rs and oth	 sers		336 54	0 0		9		
Disbursements, per Dr. Williams, viz. :—   Petry Cash Expenses, Impectors and others   336 10 8     Petry Cash Expenses   326 10 8     Sandry Office Stryamses   35 11 8     Standry Office Stryamses   35 11 8     Standry Office Stryamses   35 11 8     Collicos at Greenwich, viz. :—   Reat	Disbursements, per Dr. Williams, Petty Cash Expenses, Inspecto Postage Stamps Sundry Office Expenses Offices at Greenwich, viz.:— Rent	riz.:—	ners		336 54			9	100	
Dictorresements, per Dr. Williams, viz. :	Petty Cash Expenses, Inspector Postage Stamps Sundry Office Expenses  Offices at Greenwich, viz.:— Rent Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	rs and oth			54	10 8	0.15	1 10	K	
Petty Cash Expenses, Lapspectors and others	Petty Cash Expenses, Inspector Postage Stamps Soundry Office Expenses  Offices at Greenwich, viz.:— Rent Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance	rs and oth			54	10 0			0	
Offices at Greeowich, rin	Postage Stamps Sundry Office Expenses Offices at Greenwich, viz.:- Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water Expenses of Steam Launches, Hul Insurance				54	44 0				
Sandry Office Expenses   3.5 11 8   426 2 4	Sundry Office Expenses  Offices at Greenwich, viz. : Rent Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance		***		40.0	0 0				
Offices at a Greenwich, viz. :	Rent				90	11 8				
Rest	Rent						421	2	*	
Rates and Taxes	Rates and Taxes Fire and Boiler Insurance Telephone Rent Gas Furniture Coal Water  Expenses of Steam Launches, Hul Insurance				55	0 0				
Telephone Rent	Telephone Rent		***							
Gas	Gas		***	***						
Furniture	Furniture									
Coal	Coal									
Expenses of Steam Launches, Hulk, &c., vis.:—   152 0 0     Coal and Coke	Water Expenses of Steam Launches, Hul Insurance									
Expenses of Steam Launches, Hulk, &c., viz.:— Insurance Coal and Cohe Repairs	Insurance			***	2	6 0				
Insurance	Insurance				-		12	5 9	2	
Coal and Coke   432 14 1   Repairs   E200 16 2   Less Reimbursements for Damage   92 4 2   2   2   2   2   2   2   2   2					159	0.0				
Repairs										
Skiff and Moorings			£200 1	16 2	102					
Skiff and Moorings   7 12 6   Stores   220 4 1   Petrol   41 16 8   Purchase of new Launch   £837 17 6					1 1 1 1 1 1	-				
Stores   220 4 1   Petrol   41 16 8   Purchase of new Launch   £837 17 6   Less Sale of old one   135 0 0   Purchase of new Launch   £837 17 6   Less Sale of old one   135 0 0   Purchase of extra Nurses   170 14 4   Rent of Causeway, &c.   18 5 0   Rates and Taxes   77 10 5   Fire and Boiler Insurance   11 8 6   Purchase   13 5 0   Purchase	0110 -131		-							
Percol										
Purchase of new Launch			***	***						
Tog   17 6	Purchase of new Launch .		£837	17 6						
Hospital at Denton, viz.:—   Exponses of extra Nurses   170 14   4     Rent of Causeway, &c   18   5   0     Rates and Taxes   77   10   5     Fire and Boiler Insurance   11   8   6     Telephone Rent   13   5   0     Gas   5   1   7   8     Goal   5   4   1     Stores   69   5   2     General Repairs   183   9   6     Maintenance of Patients   184   17   8     Pristing and Stationery   68   0   6     Exponses   69   5   2     General Repairs   183   9   6     Maintenance of Private Wire   21   18   7     Examination of Rats, &c.   884   3   0     Condemnity Unsound Food, Expenses   24   14   10     Proceeds of sole of Unsound Food returned to Consignees (see contra)   2,071   12   4     Disinfectants   10   16   0     Advertisements   2   2   0     Miscellaneous   15   3   0     Mr. Comptroller   1   0   10     Mr. Solicitor   3   16   0     Parliamentary Expenses   150   0     Ditto   re Inspection of River   150   0    Ditto   re Inspection of River   150   0    Ditto   re Inspection of River   150   0    Ditto   re Inspection of River   150   0	Less Sale of old one		135	0 0		17				
Hospital at Denton, viz.:-   Expenses of extra Nurses   170 14 4					702	11 6		5 16	10	
Expenses of extra Nurses	Hospital at Denton, viz. :-						2100	- 40		
Rates and Taxes	Expenses of extra Nurses		***							
Fire and Boiler Insurance	Rent of Causeway, &c				-					
Telephone Rent	Fire and Poller Insurance									
Gas										
Coal				***	51	7 8	3			
Separal Repairs	Coal			***						
Maintenance of Patients			***							
Printing and Stationery			***	***						
Printing and Stationery	Manufectuation of Lancins		111	111	101			4 7	4	
Telegrams and Maintenance of Private Wire	Printing and Stationery						. 6	8 0	6	
Condemning Unsound Food, Expenses	Telegrams and Maintenance of Pr	vate Wir			***	- 411	. 2			
Proceeds of sale of Unsound Food returned to Consignees (see contra) 2,071 12 4	Examination of Rats, &c									
Disinfectants	Proceeds of sale of Unsound Food	returned	to Cons	ignees	(see co	ntra)	. 2,07			Control of the Contro
Subscriptions	Disinfectants						. 2	1 11	10	
Advertisements	Subscriptions									
Miscellaneous	Advertisements			***						
Mr. Comptroller				***						
Mr. Comptroller	Law Charges, viz :		***							
Mr. Solicitor	Mr. Comptroller			***						
Parliamentary Expenses				***	3	16	0		20	
Mr. Hallkeeper, Disbarsements							10			
Ditto re Inspection of River	Parliamentary Expenses									
Committee's Allowance 150 0 0  Ditto re Inspection of River 150 0 0  300 0 0	Delegation Expenses									
Ditto re Inspection of River 150 0 0 300 0 0	Committee's Allowance				. 150	0	0			
	Thiste - Invenanti				400			00.0		
					-		- 3	00 0	0	£15,324 6

CHAMBER OF LONDON, 31st March, 1914. ADRIAN POLLOCK,

Chamberlain.

