

ABSTRACT OF SANITARY REPORTS.

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UNITED STATES.

SPECIAL REPORTS.

Gulf quarantine station.

Under dates of July 10 and 12, respectively, Surgeon R. D. Murray reports as follows relative to the British ship *Revolving Light*, from Rio Janeiro, and the British steamship *Newton*, from Santos via St. Lucia:

I have the honor to report the arrival on July 9, 1891, of the British ship *Revolving Light*, from Rio Janeiro via Barbadoes, in rock ballast. Said vessel had 10 cases of yellow fever at Rio, all of whom were immediately sent to hospital, and 2 of whom died.

There are 18 in crew, all well en route, and on arrival; and the vessel is sound and clean all over. Bilge dark, but without odor.

The clothes and bedding of the men who died were destroyed by fire, and those used about the other 8 were disinfected at the hospital, previous to the men returning aboard. The vessel is held for disinfection.

I have the honor to report the arrival in quarantine this day of the British steamship *Newton*, from Santos via St. Lucia and Pensacola, in water ballast, with 30 tons of ashes.

She arrived in Rio March 26, 1891, where she lay six weeks before discharging her cargo. Ten days after arrival there yellow fever broke out, and 4 cases were sent to hospital, 1 of which died, and no other cases occurred while in Rio.

The vessel reached Santos May 25, two months after arrival at Rio, when yellow fever again made its appearance, on June 3, 1891, nine days subsequent to arrival there and after several of the crew had been ashore.

Seven cases now developed, all of which were immediately sent to hospital; 1 died, 1 returned to vessel, and the result in the other 5, unknown, having been left in hospital. She then proceeded to sea, and 4 cases occurred on the voyage, 2 of which died on June 17 and 19, respectively.

Clothes of mate, quartermaster, and 1 seaman who had yellow fever are on board, and will be immediately disinfected, and those of the other sick were sent ashore at Santos.

The crew numbers 30, all told, 7 of whom have had yellow fever, 23 have not.

Holds, staterooms, and fore-castle are in good condition.

Two Pensacola pilots came with her, and have been brought ashore for the necessary isolation and to have their clothing disinfected previous to their return to Pensacola.

The vessel is held for observation and thorough disinfection.

Yellow fever on board British steamship Nigretia while en route from Vera Cruz.—The following telegram has been received from Dr. Hargis, president Florida State board of health, dated July 23, 1891 :

British steamship *Nigretia*, from Vera Cruz, arrived July 14 in quarantine. Engineer Rowan reported sick on the 16th, engineer's steward on 19th, with yellow fever. Vessel ordered out and advised to report to Government station Chandeleurs. Engineer died 21st. Vessel coaled and sailed 22d.

VESSELS REMAINING, ARRIVING AT, AND DEPARTING FROM UNITED STATES QUARANTINE STATIONS.

Cape Charles quarantine, week ended July 10, 1891.

Name of vessel.	Date of arrival.	Where from.	Destination.	Treatment of vessel and cargo.	Date of departure.
Span. S. S. Alava.....	July 7	Cienfuegos..	Hampton Roads.	Boarded, inspected, quarantined, and fumigated.	July 12
Br. Schr. Valkyrie.....	July 7	Aracaja.....	Hampton Roads.	Boarded, inspected, and passed.	July 7
Nor. Bk. Stanley.....	July 8	Bahia.....	Hampton Roads.	Boarded, inspected, and passed.	July 8

Seven vessels spoken and passed.

Delaware Breakwater, week ended July 4, 1891.

Twelve vessels inspected and passed.

Week ended July 11, 1891.

Fourteen vessels inspected and passed.

Gulf quarantine station, week ended July 16, 1891.

Nor. Bk. Crown Prince.....	July 5	Rio Janeiro..	Ship Island..	Held for disinfection.	July 14
Swedish Bk. Oliva.....	July 6	Rio Janeiro.....	do.....	do.....	
Br. Shp. Revolving Light.....	July 9	Rio Janeiro via Barba-does.	do.....	do.....	
Br. S. S. Newton.....	July 12	Santos via St. Lucia and Pensacola.	Pensacola....	do.....	
Am. Sch. New South (a)....	June 28	.....	.....	do.....	

a Trespassed upon quarantine. Detained on account of exposure. One case of yellow fever developed and recovered.

Key West quarantine, week ended July 4, 1891.

Am. Bq. Annie Batchelder....	June 27	St. Jago, Cuba.	Trinidad	Vessel cleaned, fumigated, and disinfected with bichloride.	July 2
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VESSELS REMAINING, ARRIVING AT, AND DEPARTING FROM UNITED STATES QUARANTINE STATIONS—Continued.

South Atlantic quarantine, week ended July 4, 1891.

Name of vessel.	Date of arrival.	Where from.	Destina- tion.	Treatment of vessel and cargo.	Date of dep'ture.
Am. Bg. Emma.....	June 23	Havana	Brunswick, Ga.	Unballasted, burn- ed sulphur in all parts 48 hours, washed with bi- chloride, and all dunnage soaked in same.	July 3
Br. S. S. Kate Fawcett.....	June 24	New York...	Savannah, Ga.	Same as above, ex- cept not so long a fumigation in cabin and fore- castle.	June 30
Am. Schr. Carrie T. Ballano...	July 2	Havana	Brunswick, Ga.	Fumigated 18 hours and washed with bichloride.	
Am. Schr. Maud H. Dudley...	July 2	Nassau	Belleville, Ga.	12 hours' fumiga- tion.	July 4

Week ended July 11, 1891.

Am. Schr. Carrie T. Ballano...	July 2	Havana	Brunswick, Ga.	Fumigated and dis- infected.	July 7
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San Diego quarantine station, week ended July 8, 1891.

Chilian insurgent steamship *Itata* inspected July 4; also American S. S. *Carlos Pochecho*, from Ensenada, Mexico.

Week ended July 15, inspected 3 vessels.

Reports of States, and yearly and monthly reports of cities.

CALIFORNIA—*San Francisco*.—Month of June, 1891. Total deaths, 495, including croup, 3; diphtheria, 25; enteric fever, 8; whooping cough, 5; scarlet fever, 2; and phthisis pulmonalis, 62.

CONNECTICUT.—Month of June, 1891. Reports to the State board of health from 165 cities and towns, having an aggregate population of 736,194, show a total of 977 deaths, including la grippe, 8; measles, 19; scarlet fever, 13; diphtheria and croup, 37; whooping cough, 2; enteric fever, 8; and phthisis pulmonalis, 95.

IOWA—*Davenport*.—Month of May, 1891. Total deaths, 31, including diphtheria, 1; enteric fever, 1; influenza, 2; and phthisis pulmonalis, 3.

Month of June, 1891. Total deaths, 34, including diphtheria, 3; enteric fever, 2; measles, 1; influenza, 1; and phthisis pulmonalis, 4.

MICHIGAN.—Week ended July 11, 1891. Reports to the State board of health, Lansing, from 63 observers indicate that cerebro-spinal meningitis, membranous croup, typhoid fever, pneumonia, inflammation of

bowels, measles, inflammation of brain, diphtheria, and puerperal fever increased, and that pleuritis, typho-malarial fever, and cholera morbus decreased in area of prevalence.

Diphtheria was reported present at 31 places, scarlet fever at 35 places, enteric fever at 15 places, and measles at 27 places.

DETROIT.—Month of June, 1891. Population, 220,000. Total deaths, 315, including croup, 6; diphtheria, 9; enteric fever, 3; measles, 1; whooping cough, 1; and phthisis pulmonalis, 28.

NEW HAMPSHIRE—*Manchester*.—Month of June, 1891. Population, 45,200. Total deaths, 61, including enteric fever, 1; whooping cough, 1; and phthisis pulmonalis, 8.

NEW JERSEY—*Hudson County*.—Month of June, 1891. Population, 283,850. Total deaths, 661, including measles, 10; scarlet fever, 12; diphtheria, 41; whooping cough, 3; and phthisis pulmonalis, 71.

NEW YORK—*Buffalo*.—Month of June, 1891. Population, 255,664. Total deaths, 443, including measles, 2; scarlet fever, 1; diphtheria, 9; croup, 4; enteric fever, 7; and phthisis pulmonalis, 58.

NORTH CAROLINA.—Month of May, 1891. Reports to the State board of health from 13 towns, having an aggregate population of 80,926, show a total of 115 deaths, including enteric fever 1 and phthisis pulmonalis 21.

PENNSYLVANIA—*Williamsport*.—Month of June, 1891. Population, 27,109. Total deaths, 15, including none from contagious diseases.

TENNESSEE—*Chattanooga*.—Month of June, 1891. Population, 30,000. Total deaths, 73, including croup 2 and phthisis pulmonalis 10.

Nashville.—Month of June, 1891. Population, 76,309. Total deaths, 167, including croup, 2; enteric fever, 5; measles, 1; whooping cough, 2; and phthisis pulmonalis, 24.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

Cities.	Week ended.	Population, U. S. Census of 1900.	Total deaths from all causes.	Deaths from—										
				Phthisis pul- monalis.	Yellow fever.	Smallpox.	Varioloid.	Varicella.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
New York, N. Y.....	July 18.....	1,683,168	1,074	85	.....	.....	.....	.....	.....	6	30	23	12	5
Chicago, Ill.....	July 18.....	1,250,000	583	33	.....	.....	.....	.....	60	6	9	11	7	1
Philadelphia, Pa.....	July 11.....	1,069,264	448	45	.....	.....	.....	.....	11	3	7	..	..	..
Brooklyn, N. Y.....	July 18.....	869,448	584	47	.....	.....	.....	.....	5	8	12	2	..	..
Boston, Mass.....	July 18.....	459,062	207	17	.....	.....	.....	.....	1	..	..	..	..	..
Baltimore, Md.....	July 18.....	455,427	239	14	.....	.....	.....	.....	2	3	..	..	..	..
St. Louis, Mo.....	July 11.....	451,770	208	.....	.....	.....	.....	.....	3	1	..	1	..	..
Cincinnati, Ohio.....	July 17.....	300,000	124	9	A	.....	.....	.....	2	3	..	..	..	..
Washington, D. C.....	July 15.....	250,000	122	9	.....	.....	.....	.....	1	..	8	3	1	2
Milwaukee, Wis.....	July 11.....	230,000	59	7	.....	.....	.....	.....	..	..	4	..	..	..
Milwaukee, Wis.....	July 18.....	230,000	93	7	.....	.....	.....	.....	1	1	4	1	2	..
Detroit, Mich.....	July 11.....	220,000	89	3	.....	.....	.....	.....	..	..	2	..	..	..
Detroit, Mich.....	July 18.....	220,000	127	.....	.....	.....	.....	.....	..	..	2	..	..	..
Minneapolis, Minn.....	July 18.....	164,738	58	.....	.....	.....	.....	.....	1	..	2	..	..	..
Louisville, Ky.....	July 18.....	161,005	49	6	.....	.....	.....	.....	2	1	..	..	..	..
Rochester, N. Y.....	July 17.....	138,327	48	7	.....	.....	.....	.....	..	..	1	..	..	..
Providence, R. I.....	July 18.....	135,000	52	.....	.....	.....	.....	.....	..	..	2	1	2	..
Kansas City, Mo.....	June 27.....	132,416	32	5	.....	.....	.....	.....	..	..	..	..	..	..
Kansas City, Mo.....	July 4.....	132,416	42	3	.....	.....	.....	.....	1	..	..	..	..	1
Kansas City, Mo.....	July 11.....	132,416	40	6	.....	.....	.....	.....	..	..	..	..	..	..
Richmond, Va.....	July 18.....	85,000	63	3	.....	.....	.....	.....	4	..	6	..	..	..
Toledo, Ohio.....	July 17.....	82,652	31	1	.....	.....	.....	.....	..	..	1	..	..	..
Fall River, Mass.....	July 17.....	75,000	53	4	.....	.....	.....	.....	..	..	..	..	..	1
Wilmington, Del.....	July 18.....	61,437	37	.....	.....	.....	.....	.....	..	..	..	..	..	..
Lynn, Mass.....	July 11.....	55,727	14	1	.....	.....	.....	.....	..	..	1	..	..	..
Manchester, N. H.....	July 18.....	45,000	.....	.....	.....	.....	.....	.....	..	..	..	..	..	..
Portland, Me.....	July 18.....	36,425	11	2	.....	.....	.....	.....	..	..	..	..	..	..
Binghamton, N. Y.....	July 18.....	35,000	9	2	.....	.....	.....	.....	..	..	..	..	..	..
Mobile, Ala.....	July 18.....	31,076	14	3	.....	.....	.....	.....	..	..	..	..	..	..
Auburn, N. Y.....	July 18.....	25,858	6	..	.....	.....	.....	.....	..	..	..	..	..	..
San Diego, Cal.....	July 11.....	16,000	2	.....	.....	.....	.....	.....	..	..	..	..	..	..
Pensacola, Fla.....	July 11.....	15,000	4	.....	.....	.....	.....	.....	..	..	..	..	..	..

Table of temperature and rainfall, week ended July 17, 1891.

[Received from Department of Agriculture, Weather Bureau.]

Locality.	Mean temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess	Deficiency.	Normal.	Excess.	Deficiency.
New England States:						
Eastport, Me.....	60			.98		.92
Portland, Me.....	70			.84	.50	
Boston, Mass.....	73	14		.77		.73
Block Island, R. I.....	68		14	.70		.14
Middle Atlantic States:						
Albany, N. Y.....	74			.91		.13
New York, N. Y.....	75			1.05		.95
Philadelphia, Pa.....	77		14	1.03		.89
Atlantic City, N. J.....	73		14	.70		.46
Baltimore, Md.....	81		42	1.14		.58
Washington, D. C.....	80		49	1.05	.39	
Lynchburg, Va.....	79		42	.84		.84
Norfolk, Va.....	81		42	1.26	1.38	
South Atlantic States:						
Charlotte, N. C.....	81		56	1.40		.83
Wilmington, N. C.....	81		42	1.26		.54
Charleston, S. C.....	84		42	1.69		1.63
Augusta, Ga.....	83		42	1.19		1.18
Savannah, Ga.....	85		56	1.06		.88
Jacksonville, Fla.....	83		28	1.54	.54	
Key West, Fla.....	84		14	.98		.14
Gulf States:						
Atlanta, Ga.....	81		42	1.05	.63	
Pensacola, Fla.....	83		14	1.47		1.33
Mobile, Ala.....	83		14	1.47		.26
Montgomery, Ala.....	83		28	.95		.13
Vicksburg, Miss.....	82		14	.91	.39	
New Orleans, La.....	83			1.47		1.07
Shreveport, La.....	84		28	.97		.23
Fort Smith, Ark.....	82		28	.84	.24	
Little Rock, Ark.....	82		42	.71	.61	
Palestine, Tex.....	83		14	.63		.35
Galveston, Tex.....	85		14	.51	.17	
San Antonio, Tex.....	84		8	.63		.45
Corpus Christi, Tex.....	83			.49		.49
Brownsville, Tex.....	84			.42		.40
Rio Grande City, Tex.....	86			.21		.20
Lake Region:						
Oswego, N. Y.....	71			.76		.55
Rochester, N. Y.....	72	14		.69		.56
Buffalo, N. Y.....	71		14	.77		.37
Erie, Pa.....	73		11	.64		.50
Cleveland, Ohio.....	72		14	.91		.78
Sandusky, Ohio.....	75		14	.70		.58
Toledo, Ohio.....	76		14	.70		.70
Detroit, Mich.....	73		14	.81		.39
Port Huron, Mich.....	71			.56	.34	
Alpena, Mich.....	67	14		.70		.64
Marquette, Mich.....	69		53	.70	1.18	
Grand Haven, Mich.....	72		28	.65		.53
Milwaukee, Wis.....	70	5		.77		.17
Chicago, Ill.....	73		14	.90		.10
Duluth, Minn.....	69		28	.91	1.30	
Ohio Valley and Tennessee:						
Memphis, Tenn.....	82		28	.59		.41
Nashville, Tenn.....	81		28	.98		.70
Chattanooga, Tenn.....	81		28	.84		.40
Knoxville, Tenn.....	77		28	.98		.02
Louisville, Ky.....	79		24	.87		.81
Indianapolis, Ind.....	78		28	1.12		1.00
Cincinnati, Ohio.....	79		42	.58		.18
Columbus, Ohio.....	78		43	.77		.03
Pittsburgh, Pa.....	76		14	1.16		.08
Upper Mississippi Valley:						
St. Paul, Minn.....	73		28	.71		.37
La Crosse, Wis.....	75		28	1.05		.10
Dubuque, Iowa.....	76		28	1.03		.99
Davenport, Iowa.....	77		42	.85		.51
Des Moines, Iowa.....	76		42	.71		.45
Keokuk, Iowa.....	80		56	.98		.44
Springfield, Ill.....	79		42	.49	2.23	
Cairo, Ill.....	80		28	.84		.50
St. Louis, Mo.....	81		42	.80		.44

Table of temperature and rainfall, week ended July 17, 1891—Continued.

Locality.	Mean temperature in degrees Fahrenheit.			Rainfall in inches and hundredths.		
	Normal.	Excess.	Deficiency.	Normal.	Excess.	Deficiency.
Missouri Valley:						
Springfield, Mo.....	79		50	1.05	.31	
Kansas City, Mo.....	80		42	.80		.15
Concordia, Kans.....	78		28	.74		.18
Omaha, Nebr.....	79		42	1.24		.52
Valentine, Nebr.....	75		56	.70		.48
Huron, S. D.....	72		14	.91		.69
Pierre, S. D.....	76		28	.57		.55
Extreme Northwest:						
Moorhead, Minn.....	68		15	1.05	1.05	
Bismarck, N. D.....	70		28	.52	1.35	
Buford, Fort, N. D.....	70		42	.44	.80	
Rocky Mountain Slope:						
Assiniboine, Fort, Mont.....	68		28	.49	3.10	
Helena, Mont.....	67		28	.21	.90	
Custer, Fort, Mont.....	72		50	.21		
Salt Lake City, Utah.....	76		42	.14		.14
Cheyenne, Wyo.....	70		42	.42		.16
North Platte, Nebr.....	75		42	.63		.11
Denver, Colo.....	74		42	.37		.37
Montrose, Colo.....	69		.14			
Pueblo, Colo.....	75		28	.42		.40
Dodge City, Kans.....	80		28	.69		.35
Sill, Fort, Ind. T.....	82		14	.51		.09
Santa Fé, N. Mex.....	70	14		.66		.58
Pacific Coast:						
Olympia, Wash.....	62	14		.17		.17
Portland, Oreg.....	68	14		.14		.02
Roseburg, Oreg.....	67	14		.10		.07
Red Bluff, Cal.....	81	14		.00		
Sacramento, Cal.....	74	14		.00		
San Francisco, Cal.....	60		14	.00	.01	
Los Angeles, Cal.....	72		14	.00		
San Diego, Cal.....	68		14	.00		
Yuma, Ariz.....	92			.00		

FOREIGN.

(Reports received through the Department of State and other channels.)

AUSTRALIA—Brisbane.—Month of April, 1891. Total deaths, 105, including scarlet fever, 1; enteric fever, 4; influenza, 1; diphtheria, 1; and chickenpox, 1.

Melbourne.—Month of March, 1891. Population, 489,185. Total deaths, 792, including scarlet fever, 1; whooping cough, 4; diphtheria, 19; and enteric fever, 36.

Month of April, 1891. Total deaths, 749, including whooping cough, 5; diphtheria, 11; and enteric fever, 30.

BAHAMAS—Dunmore Town.—Two weeks ended July 2, 1891. Population, 2,400. Total deaths from all causes, 1.

Green Turtle Cay.—Two weeks ended July 2, 1891. Population, 2,732. Total deaths, 2. None from contagious diseases.

Inagua.—Three weeks ended June 11, 1891. Population, 1,200. Total deaths, 2. None from contagious diseases.

CUBA—Havana.—Week ended July 9, 1891. Eleven deaths from yellow fever and 8 from smallpox.

GREAT BRITAIN—England and Wales.—The deaths registered in 28 great towns of England and Wales during the week ended July 4 corresponded to an annual rate of 17.7 a thousand of the aggregate population, which is estimated at 9,715,559. The lowest rate was recorded in Birkenhead, viz, 13.1, and the highest in Wolverhampton, viz, 24.6 a thousand.

London.—One thousand three hundred and sixty-three deaths were registered during the week, including measles, 26; scarlet fever, 12; diphtheria, 18; whooping cough, 41; enteric fever, 7; and diarrhoea and dysentery, 38. The deaths from all causes corresponded to an annual rate of 16.8 a thousand. Diseases of the respiratory organs caused 237 deaths. In greater London 1,718 deaths were registered, corresponding to an annual rate of 15.8 a thousand of the population. In the "outer ring" the deaths included whooping cough 16 and diphtheria 3.

Newcastle-upon-Tyne.—Two weeks ended June 27, 1891. Population, 187,500. Total deaths, 161, including 1 from scarlet fever and 2 from enteric fever.

Ireland.—The average annual death rate, represented by the deaths registered during the week ended July 4, in the 16 principal town districts of Ireland, was 21.3 a thousand of the population. The lowest

rate was recorded in Newry, viz, 11.7, and the highest in Limerick, viz, 54.6 a thousand. In Dublin and suburbs 143 deaths were registered, including typhus fever, 1; whooping cough, 6; and enteric fever, 2.

Scotland.—The deaths registered in eight principal towns during the week ended July 4 corresponded to an annual rate of 20.6 a thousand of the population, which is estimated at 1,327,916. The lowest mortality was recorded in Greenock, viz, 13.9, and the highest in Leith, viz, 25.3 a thousand. The aggregate number of deaths registered from all causes was 530, including measles, 15; scarlet fever, 2; whooping cough, 15; fever, 2; and diarrhoea, 12.

INDIA—Calcutta.—Month of March, 1891. Population, 433,219. Total deaths, 1,075, including cholera, 153; smallpox, 3; fever, 362; and tetanus, 43.

SWITZERLAND—Zurich.—Month of May, 1891. Population, 91,323. Total deaths, 176, including scarlet fever, 1; diphtheria and croup, 7; whooping cough, 3; typhus, 1; and phthisis pulmonalis, 27.

TURKEY—Constantinople.—Month of March, 1891. Total deaths, 1,155, including smallpox 38.

Month of April. Total deaths, 930, including smallpox 42.

Month of May. Total deaths, 859, including smallpox 48.

MORTALITY TABLE, FOREIGN CITIES.

Cities.	Week ended.	Estimated population.	Total deaths from all causes.	Deaths from—								
				Cholera.	Yellow fever.	Smallpox.	Typhus fever.	Enteric fever.	Scarlet fever.	Diphtheria.	Measles.	Whooping cough.
Vienna	June 20.....	1,378,530	626			10		4	3	22	22	2
Buda Pesth.....	June 25.....	507,000	18				1		3	9		
Buda Pesth.....	July 2.....	507,000	24				3		35	7		
Brussels.....	June 27.....	469,459	159			3		1				
Lyons.....	June 27.....	430,000	143					1				
Amsterdam.....	June 20.....	407,542	121			1		2		2		
Amsterdam.....	June 27.....	407,542	166							3		
Munich.....	June 20.....	349,000	193					2	2	6		
Copenhagen.....	June 27.....	320,000	154							10		
Cologne.....	June 27.....	284,117	122						1	2		3
Edinburgh.....	June 27.....	261,970	95						1	1	4	3
Palermo.....	June 27.....	250,000	95						1	1		
Rotterdam.....	July 4.....	209,134	70									
Trinidad.....	May 2.....	189,566										
Trinidad.....	May 9.....	189,566	25									
Trinidad.....	May 16.....	189,566	29									
Trinidad.....	May 23.....	189,566	24									
Frankfort-on-the-Main.....	June 27.....	179,850	74							1	3	
Venice.....	June 27.....	159,190	63									
Trieste.....	June 27.....	158,054	54					1				
Nuremberg.....	June 20.....	142,523	64							3		
Stuttgart.....	July 4.....	139,659	44							2		
Funchal.....	June 27.....	133,250	25									
Colombo.....	June 16.....	128,000				1						
Bremen.....	June 27.....	125,000	49					2				
Havre.....	June 27.....	112,074	36					1				
Crefeld.....	July 4.....	108,000	78									
Gothenburg.....	June 27.....	106,246	23							1		
Aix-la-Chapelle.....	June 28.....	104,798	39									
Leghorn.....	June 28.....	103,762						1				
Catania.....	June 30.....	103,000	64					2	1	1		
Rheims.....	July 4.....	97,903	46							1	2	
Zurich.....	June 27.....	91,323	24							7	8	2
Leith.....	June 27.....	69,933	26									
Cadiz.....	June 27.....	57,157	55						1		1	
Trapani.....	June 27.....	43,095	14									
Gibraltar.....	June 28.....	25,755	6									
Schiedam.....	July 4.....	25,437	7									
Vera Cruz.....	July 10.....	25,000	17		10							
Girgenti.....	June 27.....	23,547	4									
Licata.....	June 27.....	19,000	30							19		
Cape Haytien.....	June 6.....	15,000	9									
Cape Haytien.....	June 13.....	15,000	5									
Cape Haytien.....	June 20.....	15,000	8									
Cape Haytien.....	June 27.....	15,000	8									
Flushing.....	July 4.....	13,200	7									
Guelph.....	July 12.....	10,173	5									
La Guayra.....	June 27.....	7,641	5									
La Guayra.....	July 4.....	7,641	7									
Port Sarnia.....	July 11.....	6,200	1									
Livingston.....	July 7.....	3,000	1									

OFFICIAL :

WALTER WYMAN,

Supervising Surgeon-General Marine-Hospital Service.