# ABSTRACT OF SANITARY REPORTS.

Vol. VII. Washington, D. C., March 25, 1892.

No. 13.

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### UNITED STATES.

#### SPECIAL REPORTS.

Yellow fever and smallpox reported in Costa Rica.—Acting Assistant Surgeon W. W. McKay, in charge of the United States Quarantine at San Diego, Cal., forwards with his weekly report, dated March 16, a clipping from the Associated Press dispatches which indicates that yellow fever is prevailing at Punta Arenas, Alajuela, and Heredia, and typhoid fever is epidemic at San José, and smallpox at Cantago, Costa Rica.

He states: "Pacific mail steamers touch here regularly now and the greatest care will be exercised and a thorough inspection made of them. Our wharf and gangway will soon be completed, and, should an emergency require it, I could handle their largest steamers."

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

California.—Reports to the State board of health from 118 cities, towns, and villages, having an aggregate population of 813,877, show a total of 1,208 deaths, including phthisis pulmonalis, 129; influenza, 29; enteric fever, 17; scarlet fever, 14; diphtheria, 42; measles, 14; croup, 9; and whooping cough, 6.

San Diego.—Year of 1891. Population, 16,159. Total deaths, 181, including phthisis pulmonalis, 40; enteric fever, 1; scarlet fever, 2; and whooping cough, 3.

CONNECTICUT.—Reports to the State board of health from 166 towns, having an estimated population of 745,006, show a total of 1,276 deaths, including phthisis pulmonalis, 139; influenza, 60; enteric fever, 16; scarlet fever, 18; diphtheria and croup, 50; and whooping cough, 6.

ILLINOIS—Chicago.—Month of February, 1892. Population, 1,099,-850. Total deaths, 2,275, including phthisis pulmonalis, 188; influenza, 29; enteric fever, 187; scarlet fever, 46; croup, 44; and whooping cough, 15.

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MASSACHUSETTS—Northampton.—Month of February, 1892. Population, 14,990. Total deaths, 25, including phthisis pulmonalis, 2; influenza, 2; and diphtheria, 2.

MICHIGAN.—Week ended March 12, 1892. Reports to the State board of health, Lansing, indicate that inflammation of bowels, inflammation of kidney, pleuritis, remittent fever, and scarlet fever increased, and that cerebro-spinal meningitis, typhoid fever, inflammation of brain, cholera infantum, diarrhea, and diphtheria decreased in area of prevalence.

Diphtheria was reported present during the week at 26 places, scarlet fever at 53, enteric fever at 10, and measles at 10 places.

MINNESOTA—*Minneapolis*.—Month of February, 1892. Population, 164,738. Total deaths, 186, including phthisis pulmonalis, 24; influenza, 8; enteric fever, 2; scarlet fever, 8; measles, 3; and whooping cough, 1.

Winona.—Month of February, 1892. Population, 18,208. Total deaths, 32, including phthisis pulmonalis, 2; enteric fever, 1; scarlet fever, 2; and croup, 1.

NEW JERSEY—Hudson County.—Month of January, 1892. Population, 292,574. Total deaths, 666, including phthisis pulmonalis, 69; enteric fever, 9; scarlet fever, 33; diphtheria, 17; and whooping cough, 4.

Month of February, 1892. Total deaths, 524, including phthisis pulmonalis, 48; enteric fever, 7; scarlet fever, 22; diphtheria, 16; measles, 2; and whooping cough, 1.

PENNSYLVANIA—*Titusville*—*Smallpox*.—Under date March 21, 1892, Dr. Benjamin Lee, secretary State board of health, reports one case of smallpox at Titusville, brought from New York City per steamship *Diana*, which arrived there on the 5th instant. The case has been isolated.

RHODE ISLAND.—Month of February, 1892. Reports to the State board of health from cities and towns representing an estimated population of 302,897 show a total of 434 deaths, including phthisis pulmonalis, 47; influenza, 24; enteric fever, 8; scarlet fever, 8; diphtheria, 6; croup, 13; measles, 1; and whooping cough, 3. The *Monthly Bulletin* says:

Compared with the previous month, the influenza and pneumonia were less frequent, and rather less severe, bronchitis continuing with about an equal prevalence, and diphtheria, scarlatina, and typhoid fever with a diminished prevalence. Measles had quite large prevalence in Smithfield, Johnston, and Woonsocket.

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### Publications received.

Thirteenth annual report of the board of health of the city of Atlanta, Ga., 1891.

Annual report of the board of health of the city of Baltimore, Md., 1891.

Annual report of the board of health of the city of Brockton, Mass., 1891.

Annual report of the department of health of the city of Charleston, S. C., 1891.

Annual report of the State board of health of New York, 1890. Annual report of the State board of health of Pennsylvania, 1890.

MORTALITY TABLE, CITIES OF THE UNITED STATES.

|   |   | 7.88<br>Se  | from   |   |               |           | I          | )eatl      | hs fr         | om-   | -  |  |                  |   |
|---|---|---|--|---|---------------|-----------|------------|------------|---------------|---|--|--|------------------|---|
| Cities.   | Week ended.   | Population, U.<br>Census of 1890  | Total deaths fall causes.  | Phthisis pul-<br>monalis.   | Yellow fever. | Smallpox. | Varioloid. | Varicella. | Typhus fever. | Enteric fever.  | Scarlet fever.   | Diphtheria.  | Measles.         | Whooping cough.                         |
| New York, N. Y Philadelphia, Pa Brooklyn, N. Y St. Louis, Mo Boston, Mass. Baltimore, Md San Francisco, Cal Cleveland, Ohio Cleveland, Ohio Cleveland, Ohio Washington, D. C Detroit, Mich Milwaukee, Wis Milwaukee, Wis Milwaukee, Wis Milwaukee, Wis Newark, N. J Minneapolis, Minn. Louisville, Ky Rochester, N. Y Providence, R. I Toledo, Ohio Richmond, Va Richmond, Va Nashville, Tenn Fall River, Mass Portland, Me Binghamton, N. Y Mobile, Ala Galveston, Tex | Mar. 19<br>Mar. 12<br>Mar. 19<br>Mar. 19<br>Mar. 19<br>Mar. 19<br>Mar. 19<br>Mar. 19<br>Mar. 12 | 1,515,301<br>1,046,964<br>1,806,343<br>451,770<br>448,477<br>434,439<br>298,997<br>296,908<br>201,353<br>238,617<br>230,392<br>205,876<br>204,468<br>181,830<br>164,738<br>161,129<br>133,986<br>132,146<br>81,434<br>81,388<br>81,388<br>81,388<br>81,388<br>876,168<br>74,398<br>36,425<br>35,005<br>31,076 | 885<br>515<br>364<br>185<br>1223<br>189<br>109<br>113<br>130<br>85<br>777<br>81<br>115<br>47<br>60<br>43<br>43<br>47<br>19<br>45<br>41<br>38<br>30<br>14<br>31<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32<br>32 | 132<br>59<br>38<br>5<br>26<br>227<br>10<br>9<br>8<br>15<br>5<br>5<br>5<br>9<br>5<br>13<br>5<br>4<br>4<br>4<br>3<br>3<br>3 |               | 1         |            |            | 13            | 7 7 3 2 1 4 3 1 4 1 2 1 2 1 | 25<br>16<br>9<br>1<br>5<br>9<br>1<br>1<br><br>3<br><br>4<br>4<br>4<br>8<br>1<br><br>1<br>2 | 28<br>30<br>27<br>1<br>7<br>15<br>5<br>6<br>4<br>9<br>9<br>2<br>7<br>5<br>15<br>7<br>1<br>2<br>6 | 24<br>1<br>6<br> | 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
| Auburn, N. Y  | Mar. 12   | 25, 858<br>25, 858<br>25, 858<br>16, 159<br>11, 750   | 11<br>8<br>3<br>4  | 1 1   |               |           |            |            |               | 1   |  |  |                  |   |

Comparative mortality table of certain cities of the United States for the year ended December 31, 1891 (as reported to the U. S. Marine-Hospital Bureau).

| Cities.                          | Population,<br>Census of<br>1890. | Total<br>deaths<br>from all<br>causes. | Annual<br>rate per<br>1,000 of<br>popula-<br>tion. |
|----------------------------------|-----------------------------------|--|--|
| New York, N. Y                   | 1, 515, 301                       | 43, 659                                | 28.8   |
| Chicago, Ill                     | 1,099,850                         | 27,715                                 | 24.3   |
| Philadelphia, Pa                 | 1,046,964                         | 23, 041                                | 22.0   |
| Brooklyn, N. Y                   | 806, 343                          | 21, 349                                | 26.4   |
| St. Louis, Mo                    | 451,770                           | 9,530                                  | 21.0   |
| Boston, Mass.                    | 448, 477                          | 10, 571                                | 23.5   |
| Baltimore, Md                    | 434, 439                          | 10,073                                 | 23.1   |
| San Francisco, Cal               |                                   | 6,873                                  | 23.3   |
| Cincinnati, Ohio                 | 296, 908                          | 6,636                                  | 22.3   |
| Cleveland, Ohio                  | 261, 353                          | 5, 204                                 | 12.2   |
| Buffalo, N. Y                    | 255, 664                          | 6,001                                  | 23.4   |
| New Orleans, La                  | 242, 039                          | 6, 856                                 | 28.3   |
| Pittsburg, Pa                    | 238, 617                          | 5,823                                  | 24.4   |
| Washington, D. C                 | 230, 392                          | 6, 103                                 | 26.0<br>19.3                                       |
| Detroit, Mich                    | 205, 876                          | 3, 982<br>4, 689                       | 22.9   |
| Milwaukee, Wis                   | 204, 468                          | 5, 155                                 | 22.9   |
| Newark, N. J. Minneapolis, Minn. | 181, 830<br>164, 738              | 2, 272                                 | 13.7   |
|                                  | 161, 129                          | 3, 087                                 | 19.1   |
| Louisville, Ky                   |                                   | 2,506                                  | 18.7   |
| Kansas City, Mo.                 |                                   | 1,643                                  | 12.3   |
| Providence, R. I                 |                                   | 2,630                                  | 19.9   |
| Indianapolis, Ind                |                                   | 1,948                                  | 18.4   |
| Toledo, Ohio                     |                                   | 1, 475                                 | 18.1   |
| Richmond, Va                     |                                   | 2, 171                                 | 26.6   |
| Nashville, Tenn                  | 76, 168                           | 1, 803                                 | 23.6   |
| Fall River, Mass.                |                                   | 1,813                                  | 24.3   |
| Wilmington, Del                  |                                   | 1, 237                                 | 20. 1  |
| Portland, Me                     |                                   | 630                                    | 17. 2  |
| Binghamton, N. Y                 | 35, 005                           | 678                                    | 17.8   |
| Yonkers, N. Y                    | 32, 033                           | 671                                    | 20.9   |
| Mobile, Ala                      | 31, 076                           | 787                                    | 25.3   |
| Galveston, Tex                   | 29, 084                           | 698                                    | 23.9   |
| Auburn, N. Y.                    | 25, 858                           | 510                                    | 19.6   |
| Newton, Mass                     |                                   | 373                                    | 15. 3  |
| San Diego, Cal                   | 16, 159                           | 1,891                                  | 11.7   |
| Rock Island, Ill                 |                                   | 159                                    | 11.6   |
| Pensacola, Fla                   | 11,750                            | 257                                    | 21.8   |

Table of temperature and rainfall, week ended March 18, 1892.

[Received from Department of Agriculture, Weather Bureau.]

| Locality.               | Temp    | erature in<br>Fahrenhe |             | Rainfall in inches and hun-<br>dredths |         |            |  |  |  |  |
|-------------------------|---------|------------------------|-------------|--|---------|------------|--|--|--|--|
| Documey.                | Normal. | *Excess.               | *Defic'ncy. | Normal.                                | Excess. | Deficiency |  |  |  |  |
| New England States:     |         |                        |             |  |         |            |  |  |  |  |
| Eastport, Me            | 28      |                        | 72          | 1.21                                   |         | 1.09       |  |  |  |  |
| Portland, Me            | 30      |                        |             | . 77                                   |         | (          |  |  |  |  |
| Boston, Mass            |         |                        |             | 1.04                                   |         |            |  |  |  |  |
| Block Island, R. I      |         |                        |             | .91                                    |         |            |  |  |  |  |
| Middle Atlantic States: | 34      |                        | 73          |  |         |            |  |  |  |  |
|                         | 32      |                        | 68          | . 65                                   | Ì       | 5          |  |  |  |  |
| Albany, N. Y            |         |                        |             | .91                                    |         | . 5        |  |  |  |  |
| New York, N. Y          | 36      |                        |             |  |         |            |  |  |  |  |
| Philadelphia, Pa        |         | ;·····                 |             | . 70                                   | .57     |            |  |  |  |  |
| Atlantic City, N. J     | 37      |                        |             | . 91                                   | .25     | •••••      |  |  |  |  |
| Baltimore, Md           | 41      |                        |             | . 93                                   | . 72    |            |  |  |  |  |
| Washington, D. C        | 40      |                        |             | .98                                    | .47     |            |  |  |  |  |
| Lynchburg, Va           | 45      | ·                      | 61          | . 91                                   | . 53    |            |  |  |  |  |
| Norfolk, Va             | 46      |                        | 44          | 1.05                                   | . 65    |            |  |  |  |  |
| outh Atlantic States:   |         |                        | •           |  |         |            |  |  |  |  |
| Charlotte, N. C         | 50      |                        | 69          | 1.11                                   |         | . 2        |  |  |  |  |
| Wilmington, N. C        |         |                        | 53          | .98                                    | .16     |            |  |  |  |  |
| Charleston, S. C        |         |                        |             | . 91                                   |         | . 6        |  |  |  |  |
| Augusta, Ga             |         |                        |             | 1.26                                   |         |            |  |  |  |  |
| Savannah, Ga            |         |                        |             | .84                                    |         |            |  |  |  |  |
| Tooksonwills Pla        |         |                        |             | .75                                    |         |            |  |  |  |  |
| Jacksonville, Fla       |         |                        |             | .28                                    |         |            |  |  |  |  |
| Key West, Fla           |         |                        |             |  |         |            |  |  |  |  |

<sup>\*</sup>The figures in these columns represent the accumulated excess or deficiency for the week. To obtain the average daily departure these should be divided by seven.

Table of temperature and rainfall, week ended March 18, 1892-Continued.

| Locality.  |            | erature in<br>Fahrenhe                |             | Rainfall     | in inches | and hun-   |
|--|------------|---------------------------------------|-------------|--------------|-----------|------------|
| Locality.  | Normal.    | *Excess.                              | *Defic'ncy. | Normal.      | Excess.   | Deficiency |
| ulf States:  |            |                                       |             |              |           |            |
| Atlanta, Ga  | 51         | ·                                     | 61          | 1.47         | <b></b>   | .8         |
| Pensacola, Fla   | 60         |                                       | 41          | 1.26         |           | .4         |
| Mobile, Ala  | 59         |                                       | 47          | 1.80         |           | 1.0        |
| Montgomery, Ala<br>Vicksburg, Miss                     | 57         |                                       | 46          | 1.40         | .00       | .0         |
| Vicksburg, Miss  | 58         | '                                     | 99          | 1.47         |           | .1         |
| New Orleans, La  | 62         |                                       |             | 1.29         |           | .6         |
| Shreveport, La   | 58         |                                       |             | 1.05         | . 24      |            |
| Fort Smith, Ark  |            | · · · · · · · · · · · · · · · · · · · | 85          | .57          | . 42      |            |
| Little Rock, Ark                                       | 53         | ····                                  | 102         | 1.06         |           | .8         |
| Palestine, Tex   | 59         |                                       | 91          | .98          | 1.32      |            |
| Galveston, Tex   |            |                                       |             | . 75         |           |            |
| San Antonio, Tex<br>Corpus Christi, Tex                | 62         |                                       | 85          | .47          | .00       | .0         |
| Corpus Christi, Tex                                    | 64         |                                       | 73          | .38          | .13       |            |
| Brownsville, Texhio Valley and Tennessee:              | <b>6</b> 8 |                                       | 65          | . 35         |           | .2         |
| nio valley and Tennessee:                              |            | }                                     |             | 1 00         | 1.00      |            |
| Memphis, Tenn  | 52         | ļ                                     | 98          | 1.33         | 1.06      | ļ          |
| Nashville, Tenn  | 48         |                                       | 85          | 1.19         | .87       | ······     |
| Chattanooga, Tenn<br>Knoxville, Tenn<br>Louisville, Ky | 50         |                                       | 68          | 1.47<br>1.26 | 1.4       | .:         |
| Knoxville, Tenn  | 47         | · · · · · · · · · · · · · · · · · · · | 66          | .91          | .14       |            |
| Louisville, Ky   | 45         |                                       | 68          |              |           |            |
| Indianapolis, Ind                                      | 39         |                                       | 70          | . 91         |           | 1          |
| Cincinnati, Ohio                                       | 42         | ;·····                                | 87          | .77          |           |            |
| Columbus, Ohio   | 38<br>38   |                                       | 79          | .73          |           |            |
| Pittsburg, Pa  | - 36       |                                       | 77          | .05          |           | • • •      |
| ake Region: Oswego, N. Y Rochester, N. Y Buffalo, N. Y | 29         |                                       |             | . 63         |           |            |
| Pochostor N V  | 29         |                                       | 77<br>69    | .68          | .01       |            |
| Duffele N V  | 29         |                                       |             | .63          |           |            |
| Erie, Pa   |            |                                       | 64          | .65          |           |            |
| Cleveland, Ohio  | 32<br>32   |                                       | 82<br>63    | .68          |           |            |
| Sandualty Ohio   | 33         | · · · · · · · · · · · · · · · · · · · | 62          | .57          |           |            |
| Sandusky, Ohio   |            |                                       |             | .49          |           |            |
| Detucit Mich   | 34<br>33   |                                       | 67          | .56          |           |            |
| Detroit, Mich<br>Port Huron, Mich                      | 28         | :······                               | 74<br>56    | .70          |           |            |
|  | 22         |                                       |             | .42          |           | :          |
| Alpena, Mich   | 22         |                                       | 64<br>63    | .29          | .07       |            |
| Marquette, Mich  | . 21       |                                       |             | .54          | .07       |            |
| Milmanhae Wie  | 30<br>29   | · · · · · · · · · · · · · · · · · · · | 66          | .56          |           | :          |
| Chicago III  | 29         |                                       | 66<br>80    | .56          |           | 1 :        |
| Grand Haven, Mich                                      | 34<br>23   |                                       | 77          | .35          |           | 1 :        |
| nnor Mississinni Vollovi                               | 23         |                                       | 11          | .55          |           |            |
| pper Mississippi Valley: St. Paul, Minn                | 27         | ì                                     | 92          | .28          |           |            |
| Le Creage Wig  | 30         |                                       | 69          | .35          |           |            |
| Dubuque Jowe   | 32         |                                       | 61          | .49          |           | :          |
| La Crosse, Wis<br>Dubuque, Iowa<br>Davenport, Iowa     | 34         |                                       | 56          | .49          |           | :          |
| Des Moines, Iowa                                       | 34         |                                       | 61          | .28          |           | :          |
| Keokuk, Iowa   | 37         |                                       | 62          | .49          |           | ] :        |
| Springfield, Ill                                       | 39         |                                       | 69          | .56          |           | 1 :        |
| Cairo, Ill   | 45         |                                       | 86          | .84          | .00       | 1 .        |
| St. Louis, Mo  | 43         |                                       | 77          | .70          |           |            |
| issouri Valley:  | 1.0        |                                       | •••         |              |           | 1          |
| Springfield, Mo  | 44         |                                       | 98          | . 75         |           | ١.         |
| Kansas City, Mo  | 39         |                                       | 93          | . 42         |           |            |
| Kansas City, Mo<br>Concordia, Kans                     | 39         |                                       | 73          | . 42         |           |            |
| Omaha. Nebr  | 36         |                                       | 72          | . 28         |           |            |
| Valentine. Nebr  | 33         |                                       | 119         | . 22         | .72       |            |
| Huron, S. Dak  | 28         |                                       | . 87        | .14          |           |            |
| Huron, S. Dak<br>Pierre, S. Dak                        | 29         |                                       | 98          | .14          |           |            |
| xtreme Northwest:                                      | 1          |                                       |             |              | 1         | i          |
| Moorhead, Minn   | 19         |                                       | . 83        | .14          |           | .  .       |
| Bismarck, N. Dak                                       | 24         |                                       | . 102       | . 21         |           |            |
| Buford, Fort, N. Dak                                   | 24         |                                       | . 77        | . 07         |           |            |
| ocky Mountain Slope:                                   | 1          |                                       | 1           | 1            | 1         | i          |
| Assinniboine, Fort, Mont                               | 29         | 1                                     | 61          | . 12         |           | .  .       |
| Helena. Mont   | 34         |                                       | 34          | .14          |           | .1 .       |
| Salt Lake City. Utah                                   | 42         | 39                                    |             | 42           |           |            |
| Salt Lake City, Utah<br>Cheyenne, Wyo. †               | 35         |                                       |             | . 14         |           | .          |
| North Platte, Nebr                                     | 37         |                                       | 95          | .14          | .04       |            |
|  | ٠.         |                                       |             |              |           | 1          |
| Denver, Colo,  | 40         |                                       | . 84        | . 14         | .09       |            |

<sup>\*</sup>The figures in these columns represent the accumulated excess or deficiency of the week. To obtain the average daily departure these should be divided by seven. †Reports missing.

Table of temperature and rainfall, week ended March 18, 1892—Continued.

| Locality.                                 | Tempe  | erature in<br>Fahrenhe   |             | Rainfall   | in inches<br>dredths | and hun-   |
|---|--|--------------------------|-------------|--|----------------------|------------|
|   | Normal.  | *Excess.                 | *Defic'ncy. | Normal.  | Excess.              | Deficiency |
| Rocky Mountain Slope—Cont'd. Pueblo, Colo | 43<br>56<br>40<br>45<br>49<br>49<br>55<br>56<br>55<br>58<br>57 | 1<br>49<br>38<br>43<br>9 | 106         | .07<br>.20<br>.28<br>.14<br>1.17<br>1.42<br>.70<br>.77<br>.77<br>.77<br>.91<br>.32 | .30                  | .81        |

<sup>\*</sup>The figures in these columns represent the accumulated excess or deficiency of the week. To obtain the average daily departure these should be divided by seven. †Reports missing.

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### FOREIGN.

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

Bahamas—Governor's Harbor.—Two weeks ended February 13, 1892. Population, 1,116. One death.

Green Turtle Cay—Abaco.—Two weeks ended February 24, 1892. Population, 3,686. Total deaths, 2. No deaths from contagious disease.

BRAZIL—Bahia.—Under date of February 9, 1892, the United States consul writes as follows:

I have to report that the health of this community is good. Since the beginning of the year 1892 there have been six sporadic cases of yellow fever within the limits of Bahia, and 1 death from same, but no trouble is apprehended from the spread of the fever and there is no suspicion of a plague.

CUBA—Havana.—The United States sanitary inspector sends the following reports, dated March 5 and 12, 1892:

There were 85 deaths in this city during the week ended March 3, 1892.

One of these deaths was caused by yellow fever, 3 by enteric fever, 1 by bilious fever, 1 by pernicious fever, 3 by diphtheria and croup, and 2 by the grippe.

During the week ended March 10, 1892, there were 134 deaths in this city. Six of these deaths were caused by enteric fever, 1 by paludal fever, 1 by diphtheria, 2 by the grippe, and 1 by glanders.

Santiago de Cuba.—Two weeks ended February 14, 1892. Total deaths, 44, including phthisis pulmonalis, 4; yellow fever, 1; and croup, 2.

France—Marseilles.—Month of February, 1892. Population, 406, 919. Total deaths, 1,101, including smallpox, 11; enteric fever, 17; scarlet fever, 1; diphtheria and croup, 71; measles, 12; and whooping cough, 2.

Rheims.—Month of January, 1892. Population, 105,408. Total deaths, 322, including phthisis pulmonalis, 19; smallpox, 5; diphtheria and croup, 6; and measles, 48.

Rouen.—Month of January, 1892. Population, 111,847. Total deaths, 354, including phthisis pulmonalis, 38; enteric fever, 1; and whooping cough, 1.

GREAT BRITAIN—England and Wales.—The deaths registered in 28 great towns of England and Wales during the week ended March 5 corresponded to an annual rate of 20.5 a thousand of the aggregate population, which is estimated at 10,185,736. The lowest rate was recorded in Portsmouth, viz, 15.3, and the highest in Preston, viz, 32.5 a thousand.

London.—One thousand five hundred and forty-five deaths were registered during the week, including measles, 52; scarlet fever, 10; diphtheria, 27; whooping cough, 67; typhus fever, 1; enteric fever, 4; and diarrhea and dysentery, 16. The deaths from all causes corresponded to an annual rate of 18.9 a thousand. Diseases of the respir-

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atory organs caused 379 deaths. In greater London 1,984 deaths were registered, corresponding to an annual rate of 18.0 a thousand of the population. In the "outer ring" the deaths included measles 10 and whooping cough 18.

Ireland.—The average annual death rate represented by the deaths registered during the week ended March 5, in the 16 principal town districts of Ireland, was 31.9 a thousand of the population. The lowest rate was recorded in Armagh, viz, 0.0, and the highest in Sligo, viz, 61.9 a thousand. In Dublin and suburbs 219 deaths were registered, including enteric fever, 4; influenza, 8; measles, 7; and whooping cough, 8.

Scotland.—The deaths registered in 8 principal towns during the week ended March 5 corresponded to an annual rate of 22.5 a thousand of the population, which is estimated at 1,338,314. The lowest mortality was recorded in Perth, viz, 18.5, and the highest in Paisley, viz, 26.0 a thousand. The aggregate number of deaths registered from all causes was 626, including measles, 11; scarlet fever, 4; diphtheria, 12; whooping cough, 19; fever, 8; and diarrhea, 7.

NETHERLANDS.—Month of November, 1891. Reports from the 12 principal cities, having an aggregate population of 1,198,116, show a total of 2,118 deaths, including phthisis pulmonalis and throat diseases, 188; typhus and enteric fever, 15; scarlet fever, 1; diphtheria, 25; measles, 9; croup, 22; and whooping cough, 47.

Amsterdam.—Month of January, 1892. Population, 426,480. Enteric fever caused 6 deaths and diphtheria 12. Total deaths from all causes not reported.

NEW ZEALAND.—Month of November, 1891. Reports to the registrargeneral from the 4 principal cities and towns having an aggregate population of 98,233 show a total of 94 deaths, including phthisis pulmonalis, 6; enteric fever, 2; and whooping cough, 6.

Month of December, 1891. Total deaths, 125, including phthisis pulmonalis, 14; enteric fever, 4; diphtheria, 1; influenza, 13; and whooping cough, 2.

Month of January, 1892. Total deaths, 169, including phthisis pulmonalis, 16; enteric fever, 2; influenza, 30; diphtheria, 2; and whooping cough, 5.

Russia—*Riga*.—Month of December, 1891. Population, 200,000. Total deaths, 369, including phthisis pulmonalis, 49; enteric fever, 6; scarlet fever, 42; diphtheria, 22; measles, 1; and whooping cough, 3.

SWITZERLAND—Zurich.—Month of January, 1892. Population, 91,323. Total deaths, 118, including phthisis pulmonalis, 13; typhus fever, 1; diphtheria and croup, 6; measles, 5; and whooping cough, 2.

West Indies—*Trinidad*.—Two weeks ended February 20, 1892. Total deaths, 57. No deaths reported from contagious disease.

## MORTALITY TABLE, FOREIGN CITIES.

|  |                    | alm                                       | from                      |   |               | I         | Deat          | hs fr          | om-            | -           |          |          |
|--|--------------------|---|---------------------------|---|---------------|-----------|---------------|----------------|----------------|-------------|----------|----------|
| Cities.  | Week ended.        | Estimated popula-<br>tion.                | Total deaths fall causes. | Cholera.                                | Yellow fever. | Smallpox. | Typhus fever. | Enteric fever. | Scarlet fever. | Diphtheria. | Measles. | Whooping |
| ondon  | Feb. 27            | 5. 752. 204                               | 2, 261                    |   |               |           |               | 7              | 18             | 42          | 75       |          |
| ondon  | Mar. 5             | 5, 752, 204<br>5, 752, 204<br>2, 424, 705 | $2,261 \\ 1,984$          |   |               |           |               | 4              | 18<br>12       | 30          | 75<br>62 |          |
| aris   | Feb. 27            | 2, 424, 705                               | 1.095                     |   |               |           |               | 6              | 5              | 26          | 14       |          |
| lasgow   | Feb. 27            | 669 143                                   | 321                       | • |               |           |               |                | 3              | 1           | 4        |          |
| lamburgiverpool                                | Feb. 20<br>Feb. 27 | 570, 534<br>513, 786<br>507, 000          | $\frac{267}{292}$         |   |               | 1         |               | 3 2            | 3              | 8           |          | ١.,      |
| Ruda-Pesth                                     | Feb. 27<br>Feb. 26 | 507,000                                   | 202                       |   |               |           | 1             |                |                | 16          |          | l        |
| uda-Pesth                                      | Feb. 27            | 482, 158                                  | 223                       |   |               |           |               | 2              |                |             |          |          |
| Vargaty  | Feb. 20            | 482, 158<br>465, 272<br>436, 179          | 247                       |   |               | 4         |               | 6              | 4              | 8           |          | ١.,      |
| Rome   | Jan. 23            | 436, 179                                  | 315                       | ļ                                       |               |           | 3             |                |                | 9           | 1        | ١        |
| vons   | Feb. 27            | 430,000                                   | 210                       |   |               |           |               | 1              | 1              | 11          |          | ١        |
| msterdam                                       | Feb. 27            | 426, 480                                  | 187                       |   |               |           | 1             | 1              |                | 2           |          | •••      |
| Cairo  | Feb. 18            | 374, 838<br>366, 000                      | $\frac{357}{204}$         |   |               | 1         |               | 12             | 3              |             | •••••    | ļ        |
| Junich   | Feb. 20<br>Feb. 20 | 326,000                                   | 150                       |   |               |           |               | 1              |                | 7           |          | ١        |
| Copenhagen                                     | Feb. 27            | 326,000                                   | 143                       |   |               |           |               |                |                | 6           |          | l        |
| Cologne  | Mar. 5             | 291, 461                                  | 160                       |   |               |           |               |                | 1              | 9           | 4        |          |
| Jopenhagen<br>Jopenhagen<br>Jologne<br>Dresden | Feb. 20            | 326, 000<br>291, 461<br>286, 200          | 141                       |   |               |           |               |                | 1              | 6           |          | ١.,      |
|  | Feb. 27            | 286 200                                   | 115                       |   |               |           |               |                | 1              | 8           |          |          |
| Barcelona                                      | Feb. 26            | 272,000                                   | 233                       |   |               | 5         |               | 5              | 1              | 7 2         | •••••    |          |
| Edinburgh                                      | Feb. 27            | 272,000<br>264,787<br>264,787             | 95<br>88                  |   | •••••         |           |               | 1              | i              | 1           |          |          |
| Edinburgh<br>Belfast                           | Mar. 5<br>Feb. 27  | 255, 922                                  | 132                       |   |               |           | 1             |                | 1              | 1           |          | ١.,      |
| Palermo  | Feb. 27            | 250, 000                                  | 108                       |   |               |           | -             | 2<br>1         |                | i           |          |          |
| ntwerp   | Feb. 27            | 241, 263                                  | 113                       |   |               |           |               | î              | 1              | î           |          | l.,      |
| lexandria                                      | Feb. 18            | 231, 396                                  | 218                       |   |               | 1         |               | ļ              |                |             |          | ١.,      |
| Bristol  | Mar. 5             | 223,592                                   | 80                        |   |               |           |               | 1              |                |             |          | ١.,      |
| Rotterdam                                      | Mar. 5             | 216, 678<br>185, 200                      | 109                       |   |               | ļ         |               |                | 1              |             |          |          |
| Ianover  | Feb. 20            | 185, 200                                  | 65                        |   |               | ļ         |               |                | 1              | 4 2         | •••••    |          |
| Prague   | Feb. 27<br>Feb. 27 | 182, 887                                  | 136<br>119                |   |               | 3         |               | ·····          | 1.             | 2           |          |          |
| Jenoa<br>Frankfort-on-the-Main                 | Feb. 27            | 181, 338<br>180, 000                      | 73                        |   |               | 0         |               |                | i              | 6           |          | 1        |
| Venice   | Feb. 20            | 180,000<br>161,130                        | 93                        |   |               |           |               | 1              | l              | ĭ           |          |          |
| rie <b>ste</b>                                 | Feb. 27            | 158, 054                                  | 83                        |   |               |           |               | 1              |                | 4           | 1        |          |
| hent   | Feb. 20            | 150, 208                                  | 68                        |   |               | 2         |               |                |                | 1           |          |          |
| Nuremberg                                      | Feb. 20            | 149,507                                   | 77                        |   |               |           |               |                |                |             |          | ١.,      |
| Hiogo  | Feb. 6             | 142, 394                                  | 56                        |   |               |           | 1             |                |                | 2           |          |          |
| Hiogo<br>Hiogo<br>Stuttgart                    | Feb. 13            | 142, 394<br>142, 394                      | 53<br>48                  |   |               | •••••     | 1             |                | 1              | 1           |          |          |
| Stuttgart                                      | Feb. 20<br>Mar. 5  | 139, 659                                  | 47                        |   |               |           | 1             |                |                | 10          |          | 1.       |
| Kanagawa                                       | Feb. 20            | 135,000                                   |                           |   |               | 16        |               |                |                |             |          | ١.       |
| Kanagawa<br>Funchal                            | Feb. 27            | 133, 250                                  | 22                        |   |               |           |               |                |                |             |          | ١.,      |
| 3remen   | Feb. 27            | 133, 250<br>125, 600                      | 55                        |   |               |           |               |                |                | 4           |          |          |
| Stettin  | Feb. 27            | 116,500                                   | 45                        |   |               |           |               | ļ              |                | 3           |          |          |
| Havre  | Feb. 27            | 116, 369                                  | 71                        |   |               |           |               |                | $\frac{1}{2}$  | 1           |          |          |
| Catania  | Feb. 29<br>Mar. 5  | 100,000                                   | 54<br>91                  |   |               |           |               | 1              | 2              |             | •••••    |          |
| Crefeld  | Feb. 28            | 111,000<br>108,000<br>106,000             | 51                        |   |               |           |               |                |                |             |          | 1:       |
| othenburg                                      | Feb. 27            | 105, 800                                  | 46                        |   |               |           |               |                | 1              |             |          | ١.,      |
| othenburg<br>Leghorn                           | Feb. 28            | 103, 395<br>91, 323<br>80, 000            | 48                        | ļ                                       |               |           |               |                |                | 2           |          | ١.,      |
| Zurich   | Feb. 27            | 91, 323                                   | 21                        |   |               |           |               |                | 1              | 8           | 4        |          |
| Mannheim                                       | Feb. 27            | 80,000                                    | 36                        |   |               |           |               |                | ••••           | 4           |          | 1.       |
| Leith  | Feb. 27<br>Mar. 5  | 69, 956<br>69, 956                        | 17<br>25                  |   |               |           | •••••         | 1              |                | 1           | •••••    | 1.       |
| Leith  | Mar. 5<br>Jan. 9   | 53, 176                                   | 46                        |   |               |           |               | 1              |                | l           |          | 1:       |
| Jeorgetown, Demarara<br>Jeorgetown, Demarara   | Jan. 16            | 53, 176                                   | 71                        |   |               |           |               |                |                |             |          | 1.       |
| łeoroetown Demarara                            | Jan. 30            | 53, 176                                   | 77                        |   |               |           |               | 1              |                | l           |          | ļ.,      |
| deorgetown, Demararadeorgetown, Demarara       | Feb. 6             | 53, 176                                   | 57                        | <b>!</b>                                |               | ļ         |               | J              |                | ,           |          |          |
| eorgetown, Demarara                            | Feb 13             | 53, 176                                   | 66                        |   |               |           |               |                |                |             |          | 1.       |
| rapani   | Feb. 27            | 43,095                                    | 19                        |   | į             | ·····     |               |                | ļ              |             |          | ŀ        |
| Marsala  | Feb. 27<br>Feb. 6  | 40, 131<br>35, 000                        | 31<br>340                 |   | 83            | 11        |               |                |                |             |          | 1.       |
| Fibraltar                                      | Feb. 28            | 35, 000<br>25, 755                        | 10                        |   | 00            |           |               |                |                |             |          | [.       |
| Schiedam                                       | Mar. 5             | 25, 437                                   | 16                        |   |               |           |               | J              |                |             |          | Į.,      |
| Vera Cruz                                      | Mar. 11            | 25,000                                    | 3                         |   |               |           |               | 1              |                |             |          | ļ.,      |
| dirgenti                                       | Feb. 27            | 23,549                                    | 12                        |   |               |           |               |                |                | ·····       | ļ        | 1.       |
| Kingston, Can                                  | Mar. 11            | 19, 264                                   | 11                        |   |               |           |               |                |                |             |          | 1.       |
| Sagua la Grande                                | Mar. 5             | 18, 109                                   | 8<br>20                   |   | ļ             |           |               |                |                |             |          | 1        |
| Rio Grande do Sul                              | Jan. 2<br>Jan. 9   | 17,000<br>17,000                          | 20<br>19                  |   |               |           |               |                |                |             |          | 1.       |
| Rio Grande do Sul<br>Rio Grande do Sul         | Jan. 16            | 17,000<br>17,000                          | 16                        |   |               |           |               |                |                |             |          | ľ        |
| Rio Grande do Sul                              |                    | 17,000                                    | 18                        | 1                                       |               |           |               |                |                |             | l        |          |

# MORTALITY TABLE, FOREIGN CITIES—Continued.

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|   |  | -sluq  | from                       |          |               | ]         | Deat          | hs fr          | om-            | - '         |          |                 |
|---|--|--|----------------------------|----------|---------------|-----------|---------------|----------------|----------------|-------------|----------|-----------------|
| Cities.   | Week ended.  | Estimated popu<br>tion.  | Total deaths               | Cholera. | Yellow fever. | Smallpox. | Typhus fever. | Enteric fever. | Scarlet fever. | Diphtheria. | Measles. | Whooping cough. |
| Hamilton. Hamilton Flushing Matamoras. Sonneberg Guelph | Mar. 7<br>Mar. 14<br>Mar. 5<br>Mar. 11<br>Feb. 27<br>Mar. 12 | 15, 013<br>15, 013<br>14, 000<br>12, 000<br>12, 000<br>10, 539 | 2<br>1<br>4<br>5<br>2<br>5 |          |               |           |               |                |                |             |          |                 |

# Cholera, yellow fever, and smallpox in 1891.

The following tables, showing the distribution of cholera, yellow fever, and smallpox, are consolidated from reports received by the Marine-Hospital Bureau:

Cholera in 1891.

|   | Deaths.  |           |        |         |      |       |       |         |            |               |           |           |  |  |
|---|----------|-----------|--------|---------|------|-------|-------|---------|------------|---------------|-----------|-----------|--|--|
| Countries and localities.   | January. | February. | March. | April.  | May. | June. | July. | August. | September. | October.      | November. | December. |  |  |
| China: Hongkong   | 108<br>1 | 526<br>   | 1      | 84<br>1 |      | 56    | 11    | 38      |            | 188<br>1<br>3 |           | 154       |  |  |
| Siam: Bankok (b) Turkey in Asia: (c) Aleppo Beirut and Syria Damascus Tripoli Yemen |          | 1         |        |         | 55   | 50    | 234   | 545     | 224        | 34<br>319     | 93<br>69  | 47 14     |  |  |

## Yellow fever in 1891.

| UNITED STATES.                                   |      |     |       |       |       |    |       |       |   |     |     |              |
|--|------|-----|-------|-------|-------|----|-------|-------|---|-----|-----|--------------|
| Gulf quarantine $(d)$ Pensacola quarantine $(e)$ | .    |     |       | ļ     |       | 1  |       |       |   |     |     |              |
| Pensacola quarantine (e)                         |      |     |       |       |       |    | 1     |       |   |     |     | ļ. <b></b>   |
| FOREIGN.   |      |     | 1     |       |       | 1  |       |       |   |     |     |              |
| Brazil:  |      |     |       | 1.    | l     | ł  | İ     |       |   |     |     |              |
| Bahia  |      |     |       |       |       |    |       |       |   |     |     | l <u>.</u> . |
| Para   |      |     |       |       |       |    | 16    |       |   | 17  | 22  | 13           |
| Pernambuco                                       |      | 100 |       | 000   | 1 016 | 1  | 100   | 100   |   |     |     |              |
|  |      |     |       |       |       |    |       |       |   | 105 |     | 143          |
| SantosCosta Rica: Puntas Arenas (f),             | •    |     |       | ••••• |       |    |       |       |   | 22  | 101 | 14.          |
| Cuba:  |      |     |       |       |       |    |       | ••••• |   |     |     |              |
| Cardenas   | .i   |     |       | 7     | 1     |    |       |       | 1                                       | 1   |     |              |
| Cienfuegos<br>Havana<br>Santiago de Cuba.        | . 2  | 1   |       | ļ     |       |    | 1     | 2     | 2                                       | 13  | 5   | 1            |
| Havana   | . 11 | 4   | 4     | 5     | 7     | 43 | 65    |       | 47                                      | 49  | 26  | 1            |
| Santiago de Cuba                                 | . 7  | 10  | 6     | 4     | 12    | 26 |       |       | 3                                       |     | 1   |              |
| Ecuador: Guayaquil                               |      |     |       |       |       |    | 2     |       | 3                                       | 14  | 7   | 59           |
| Jamaica:   | 1    |     |       |       | İ     | 1  |       |       |   | -   |     |              |
| Kingston (g)                                     |      |     | ••••• |       |       |    | ••••• | ••••• | • |     |     | • • • • • •  |
| Port Royal                                       |      |     | ••••• |       |       |    |       |       | •••••                                   |     | 1   |              |
| Merida   | 9    |     |       |       |       | ļ  |       |       |   | 1   |     |              |
| Vera Cruz  |      | 3   | 2     | 2     | 8     |    |       | 19    |   | 16  | 21  |              |

a Outbreak of cholera in Singapore, Shanghai, and Swatow during August, 1891. No statistics. b United States consul reports, under date April 21, 1891, cholera prevailing to an alarming extent, but no way of obtaining statistics. c February 18, 1891, United States consul reports disappearance of cholera in various provinces of Syria. All quarantine restrictions removed. May 15, 1891, outbreak of cholera among 290 pilgrims from steamship Sculptor, landed at Camaran. June 9, outbreak of cholera at Aleppo. July 17, appearance of cholera at Meca, Medina, and Antioch. Since outbreak of cholera to July 28, 2,594 deaths reported in Hedjaz. To August 19, 3,154 deaths. September 22, 1891, cholera reported completely disappeared from Hedjaz. d Fourteen cases treated.

e Engineer on steamer Nigretia died. Reports for June and December missing. f Yellow fever reported as existing in Puntas Arenas in December, 1891. No statistics. g Four cases in September.

### Smallpox in 1891.

|  |                            |              |                                      |               |                              | Dea          | ths.     |                 |            |          |           |     |
|--|----------------------------|--------------|--------------------------------------|---------------|------------------------------|--------------|----------|-----------------|------------|----------|-----------|-----|
| Countries and localities.  | January.                   | February.    | March.                               | April.        | May.                         | June.        | July.    | August.         | September. | October. | November. | -   |
| UNITED STATES.   |                            |              |                                      |               |                              |              |          |                 |            |          |           |     |
| ape Charles Quarantine (a)   |                            |              |                                      |               |                              |              | i        | į               | i          |          |           | !   |
| onnecticut   |                            |              | 1                                    |               |                              |              |          |                 |            |          |           | ١   |
| Iardeeville  | l                          | 1            |                                      |               |                              |              |          |                 |            |          |           | i.  |
| Iarris Neck, Ga. (b)   |                            | l            |                                      |               |                              |              |          |                 |            |          |           | ĺ., |
| amestown, N. Y   | 1                          |              |                                      |               |                              |              |          |                 |            |          | l         | I   |
| ansas City, Mo   |                            |              |                                      | 1             |                              |              | l        |                 | 1          |          | 1         | ١   |
| Iemphis, Tenn  |                            |              |                                      |               |                              |              |          |                 | ļ          |          | 1         | l   |
| ew Vork State  |                            | l            |                                      | 1             |                              |              |          |                 |            |          | l         |     |
| hiladelphia, Pa  |                            |              |                                      | 2             | 2                            |              |          | :               |            | ĺ        |           | ١   |
| hiladelphia, Paoint Pleasant, N. J   |                            |              |                                      |               |                              |              |          |                 |            |          | 2         | ١   |
| ort Townsend Quarantine (c)  |                            |              |                                      |               |                              |              |          |                 |            |          |           | ٠.  |
| t. Louis, Moalem, N. H   |                            |              |                                      |               |                              |              |          |                 |            |          |           |     |
| alem, N. H   | 1                          |              |                                      |               |                              |              |          |                 |            |          |           | ١., |
| an Antonio, Tex  |                            |              |                                      |               |                              | 1            | l        |                 |            |          |           | ١., |
| an Antonio, Tex<br>an Elizario, Tex.(d)  |                            |              |                                      |               |                              |              |          |                 |            | l        | l         | ١., |
| an Francisco Quarantine (e)  |                            |              |                                      |               |                              |              |          |                 |            | <b> </b> |           |     |
| avannah, Ga  | 3                          | 5            |                                      |               |                              | 1            |          |                 |            |          |           |     |
| FOREIGN.   |                            |              |                                      |               |                              |              |          |                 |            |          |           |     |
| ustria:  |                            |              |                                      |               |                              |              |          |                 |            |          |           |     |
| Trieste  | , ,                        |              |                                      |               |                              | 1            | Ì        |                 |            | 1        |           |     |
| Vienna   | 17                         | 14           | 68                                   | 52            | 64                           | 36           | 39       | 17              | 5          | 15       | 2         | ••• |
| razil:   |                            | 1.2          | 00                                   | 02            | 04                           | 30           | 33       | 1.              | "          | 10       | -         |     |
| Ceara  | , 1                        | 1            |                                      | 1             | 1                            | 1            | ĺ        |                 | l          |          |           | !   |
| Pernambuco   | 35                         | 21           | 12                                   | 5             | 2                            | 2            |          | 1               |            |          |           | ٠.  |
| Rio de Janeiro $(f)$   | 39                         | 15           | 13                                   | 42            | 63                           | _            | 309      |                 | 1,000      | 738      | 97        | ĺ   |
| Rio de Janeiro (f)<br>Rio Grande do Sul  |                            |              |                                      |               |                              |              |          | 7               | 2          | 3        | 2         |     |
| Santos   |                            |              |                                      |               |                              |              |          |                 | l          |          | 5         |     |
| elgium:  |                            | 1            |                                      |               |                              | 1            |          |                 |            |          | -         | ĺ   |
| Antwerp  |                            | 3            |                                      |               | 2                            | 2            | 6        |                 | l          | l        | 1         | ١   |
| Brussels   | 51                         | 44           | 47                                   | 77            | 62                           | 32           | 10       | 6               | 4          | 3        | 1         | 1   |
| Ghent  | 1                          | 1            | 2                                    |               | 2                            | 1            | 2        | 1               | 5          | 2        | 5         | !   |
| ape Verde: Medillo   | اا                         |              |                                      |               |                              | 5            | 2        |                 |            |          |           | ١., |
| anada (g)  |                            |              |                                      |               |                              |              |          | ·               |            |          |           | ٠.  |
| eylon:   |                            |              |                                      |               |                              | 1            | į        |                 | ļ          |          |           |     |
| Colombo  | 49                         | 52           | 11                                   | 18            | 6                            | 2            |          |                 |            |          | 1         | ٠.  |
| Galle  |                            |              | 6                                    |               |                              |              |          |                 |            |          |           |     |
| hile · Concension City   | 27                         | 8            | 14                                   | 8             | 14                           | 16           | ļ        |                 |            |          |           |     |
| mile . Conception Only   | . ,                        | 1            | 4                                    | 8             | 1                            |              |          |                 |            |          |           | ٠.  |
| hina: Hongkong   |                            |              | _                                    |               |                              |              |          |                 |            | _ :      |           |     |
| hina: Hongkonguba:   | _                          |              |                                      |               |                              |              |          |                 |            | 1        |           | 1   |
| hina : Hongkonguba :<br>Uba :<br>Havana  | 2                          | 2            | 2                                    | 14            | 27                           | 33           | 30       | 28              |            | -        |           | ١   |
| hina : Hongkonguba :<br>Uba :<br>Havana<br>Santiago de Cuba  | 1                          |              |                                      | 14            | 27                           | 33           | 30       | 28              |            |          |           |     |
| Santiago de Cuba.,enmark : Copenhagen  | 1                          | 5            | 2                                    | 14            | 27                           | 33           | 30       | 28              |            |          |           |     |
| hina : Hongkong  | 37                         | 5<br>17      | 2<br><br>9                           |               |                              |              | 30       | 28              |            |          |           |     |
| hina: Hongkong   | 1                          | 5            | 2                                    | 14<br><br>16  | 27<br>15                     | 33           | 30       | 28              |            |          |           |     |
| hina : Hongkong  | 37                         | 5<br>17      | 2<br><br>9                           |               | 15                           |              | 30       | 28              |            |          |           |     |
| hina : Hongkong  | 37                         | 5<br>17      | 2<br>9<br>9                          | 16            | 15<br>1                      | 11           | ,        |                 |            |          | 1         |     |
| hina : Hongkong.  Uba :  Havana Santiago de Cuba, enmark : Copenhagen cuador : Guayaquil gypt. ngland: Liverpool London  | 37                         | 5<br>17      | 2<br><br>9                           |               | 15                           |              | 30       | 28              |            |          | 1         |     |
| hina: Hongkong   | 37                         | 5<br>17      | 2<br>9<br>9                          | 16            | 15<br>1                      | 11           | ,        |                 |            |          | 1         |     |
| hina: Hongkong.  uba:  Havana Santiago de Cuba enmark: Copenhagen cuador: Guayaquil gypt. ngland:  Liverpool London rance: Lyons   | 37<br>4                    | 5<br>17<br>6 | 2<br>9<br>9                          | 16            | 15<br>1<br>1                 | 11           | 1        | 1               |            |          |           |     |
| hina: Hongkong.  uba:  Havana Santiago de Cuba, enmark: Copenhagen cuador: Guayaquil gypt ngjand: Liverpool London rance: Lyons. Marseilles.                                     | 37<br>4                    | 5<br>17      | 2<br>9<br>9                          | 16<br>2       | 15<br>1<br>1<br>1            | 3<br>22      | 1 23     |                 | 10         |          | 21        |     |
| hina: Hongkong.  uba:  Havana  | 37<br>4                    | 5<br>17<br>6 | 2<br>9<br>9<br>1<br><br>48<br>2      | 16<br>2<br>40 | 15<br>1<br>1<br>1<br>32<br>2 | 3<br>22<br>1 | 1 23 1   | <br><br>1<br>23 |            | 13       | 21        |     |
| hina: Hongkong.  uba:  Havana Santiago de Cuba. enmark: Copenhagen cuador: Guayaquil gypt. ngland: Liverpool London rance: Lvons. Marseilles. Nice Paris.                        | 37<br>4                    | 5<br>17<br>6 | 2<br>9<br>9                          | 16<br>2       | 15<br>1<br>1<br>1            | 3<br>22      | 1 23     | 1               | 10         |          | 21        |     |
| hina: Hongkong.  uba:  Havana Santiago de Cuba. enmark: Copenhagen cuador: Guayaquil gypt. ngland: Liverpool London rance: Lyons. Marseilles. Nice Paris Rheims                  | 37<br>4                    | 5<br>17<br>6 | 2<br>9<br>9<br>1<br><br>48<br>2      | 16<br>2<br>40 | 15<br>1<br>1<br>1<br>32<br>2 | 3<br>22<br>1 | 1 23 1   | <br><br>1<br>23 |            | 13       | 21        |     |
| hina: Hongkong.  uba:  Havana Santiago de Cuba. enmark: Copenhagen cuador: Guayaquil gypt. ngland: Liverpool London rance: Lyons. Marseilles. Nice Paris. Rheims. ermany:        | 37<br>4<br><br>87<br>      | 5<br>17<br>6 | 2<br>9<br>9<br>1<br><br>48<br>2<br>8 | 16<br>2<br>40 | 15<br>1<br>1<br>1<br>32<br>2 | 3<br>22<br>1 | 1 23 1   | 1<br>23         |            | 13       | 21        |     |
| hina: Hongkong.  uba:  Havana Santiago de Cuba, enmark: Copenhagen cuador: Guayaquil gypt. ngland: Liverpool London rance: Lyons. Marseilles. Nice Paris. Rheims. ermany: Bremen | 37<br>4                    | 5<br>17<br>6 | 2<br>9<br>9<br>1<br><br>48<br>2      | 16<br>2<br>40 | 15<br>1<br>1<br>1<br>32<br>2 | 3<br>22<br>1 | 1 23 1 3 | <br><br>1<br>23 |            | 13       | 21        |     |
| hina: Hongkong.  uba:  Havana Santiago de Cuba. enmark: Copenhagen cuador: Guayaquil gypt. ngland: Liverpool London rance: Lyons. Marseilles. Nice Paris. Rheims. ermany:        | 37<br>4<br><br>87<br><br>5 | 5<br>17<br>6 | 2<br>9<br>9<br>1<br><br>48<br>2<br>8 | 16<br>2<br>40 | 15<br>1<br>1<br>1<br>32<br>2 | 3<br>22<br>1 | 1 23 1   | 1<br>23         |            | 13       | 21        |     |

a Steamer Helmsley, 15 cases.
b Epidemic started August 16. Twelve deaths to November 16; only 1 death from November 16 to December 31.

to December 31.
c Two cases on board City of Pekin, 1 death.
dSeveral cases reported November 10, 1891.
e Eight cases on City of Rio de Janeiro.
f Reports for June and December missing.
gSmallpox believed to have been brought by steamship Brazilian from Montevideo via London.
First case on ship April 22. There were 149 cases and 31 deaths during epidemic until December 28, 1891.
hSeventy-three cases and 6 deaths reported April 4, 1891.

# Smallpox in 1891—Continued.

|                           | 1        |           |        |        |          | Dea   | ths.  |         |            |          |            |             |
|---------------------------|----------|-----------|--------|--------|----------|-------|-------|---------|------------|----------|------------|-------------|
| Countries and localities. | January. | February. | March. | April. | May.     | June. | July. | August. | September. | October. | November.  | December.   |
| India:                    |          |           |        | -      |          |       |       | _       |            |          |            |             |
| Calcutta                  |          |           | 3      | 1      | 1        | 1     | 1     | 1       |            |          |            |             |
| Singapore                 |          | 1         |        | 2      | 3        | 2     | 3     |         |            |          | l          |             |
| Ireland: Belfast          |          |           |        |        | 1        |       | 1     |         |            |          | l. <b></b> |             |
| Italy:                    | ł        | 1         |        |        | 1        |       |       |         | i          |          | 1          |             |
| Genoa                     |          | 1         |        |        |          |       |       |         |            | 1        |            |             |
| Milan                     |          |           |        |        | 1        | 1     | l     |         |            |          |            |             |
| Rome                      | 2        |           | 2      | 1      |          |       |       | ,       |            | 1        | 1          |             |
| Turin                     |          |           |        |        |          | 1     | 1     |         |            |          |            |             |
| Venice                    |          | 1         | 1      |        |          |       | ·     | 1       |            | 1        |            |             |
| Madagascar: Tamatave (a)  | l        | ·         |        |        |          | l     |       |         |            | 1        | l          |             |
| Madeira: Funchal          | 5        | . 1       | 4      | 2      |          |       |       |         |            |          |            |             |
| Mexico:                   | i        |           |        |        | 1        | 1     |       | ]       | i          | 1        |            |             |
| Matamoras                 |          |           | 1      |        |          | 1     |       |         |            |          |            | i           |
| Tuxpan                    |          |           |        |        |          | 1     |       |         |            |          |            |             |
| Vera Cruz                 |          |           |        |        |          |       | 1     |         |            |          | . <b></b>  | · • • • • • |
| Norway: Christiania       |          |           | 1      |        |          |       |       |         |            |          |            |             |
| Russia:                   |          |           |        | i      | 1        | 1     | i     |         |            |          |            |             |
| Moscow                    |          |           |        |        | 7        |       |       |         |            | ١        |            |             |
| Odessa                    |          | ļ         | 1      | 4      | <b> </b> | 1     |       |         |            |          | 1          |             |
| Warsaw                    |          | 9         | 11     | 7      | 5        | 13    | 12    | 12      | 4          | 8        | 12         | 13          |
| Scotland: Glasgow         |          |           |        |        |          |       |       | 1       |            |          |            |             |
| Sicily: Messina           | 4        | 2         |        |        |          |       |       |         |            |          |            | ••••        |
| Spain:                    | 1        |           | i      |        |          | -     | 1     |         |            |          | 1          |             |
| Barcelona                 |          | 16        | 24     | 24     | 24       | 15    | 17    | 19      | 10         | 11       | 8          |             |
| Cadiz (b)                 |          |           |        | 5      | 2        | 2     | 4     | 5       |            |          |            |             |
| Jerez de la Frontera      |          | 17        | 12     | 4      | 9        | 5     | 2     | 5       | 2          | 9        | 7          | ]           |
| Switzerland: Zurich       |          |           | j      | 1      | 1        |       | 4     |         |            |          |            |             |
| Turkey: Constantinople    |          |           |        |        |          |       |       | 35      | 45         |          | 40         | 37          |
| West Indies: St. Thomas   |          |           |        |        | 3        | 1     |       | l       |            |          |            |             |

a August 9, 1891, several cases declared.
b October 29, 1891, epidemic smallpox reported.

OFFICIAL:

WALTER WYMAN,

Supervising Surgeon-General Marine-Hospital Service.