

Toner (J. M.)

CONTRIBUTIONS TO THE STUDY OF YELLOW FEVER,

A PAPER READ BEFORE

THE AMERICAN PUBLIC HEALTH ASSOCIATION,
NEW YORK, NOVEMBER 12, 1873,

ON THE

NATURAL HISTORY AND DISTRIBUTION

OF

YELLOW FEVER

IN

THE UNITED STATES,

WITH

CHART SHOWING ALL THE LOCALITIES, AND THE ELEVATION OF EACH PLACE ABOVE SEA-LEVEL,
WHERE IT HAS APPEARED,

FROM

A. D. 1668 to A. D. 1874,

BY

J. M. TONER, M. D.



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THE DISTRIBUTION AND NATURAL HISTORY OF YELLOW FEVER AS IT HAS OCCURRED AT DIFFERENT TIMES IN THE UNITED STATES.

BY J. M. TONER, M. D.,

President of the American Medical Association, Washington, D. C.

THE map which accompanies this paper, and which indicates the region where yellow fever has prevailed, either in an epidemic or in a sporadic form since the settlement of our country, is made up from notes taken in the study of the geographical distribution of the diseases of the United States.*

No special opportunities for studying the disease in question are claimed, nor originality in the mode of presenting the facts. Nevertheless, the map is believed to be accurate as far as it goes, if the data derived from past and contemporary medical literature can be relied upon.

Nor is it pretended that this paper is exhaustive, localities not named having, no doubt, been visited by this fever; but we are confident such localities will be found within the region of its general distribution, as here indicated.

The table accompanying this paper, which furnishes mainly the data upon which the map is projected, gives the names of the cities and other localities where yellow fever has occurred in our country from its first settlement, arranged by States in alphabetical order, with the years and dates of its appearance and disappearance.

The elevation of each locality above the sea-level, as far as possible, has been given from reliable sources. In some instances the elevation of a place is assumed from a general knowledge of the altitude of the surrounding country. The errors in these, if any, will be unimportant.

The influence upon localities of elevation above the sea-level, with the exemption from yellow-fever they seem to thence possess, is the view we here wish to call to the attention of sanitarians and of the profession.

We are inclined to give much weight to the theory that diseases have geographical areas and limits, modified somewhat by topographical and climatic conditions, which determine the types of disease as do climate and elevation the fauna and flora of a locality.

The fact has always been patent to the profession, that there are parts of the earth in which particular forms of disease occur, to the almost entire exclusion of others. The study of the causes of this difference is

* The map herewith published is projected from a large one, 8 by 10 feet in size, for the execution of which Dr. TONER desires to express his indebtedness to the kindness of the Hon. WILLIS DRUMMOND, Commissioner of the United States Land Office.—W.

as important as any that can engage the attention of the physician. As a simple factor elevation will, we apprehend, be found to possess qualities both preventive and curative.

We shall in this paper studiously avoid discussing the questions whether yellow fever is a specific disease or not; whether it is always imported; or whether under certain conditions it may originate within our own country.

Nor do we aim to speak as an expert, never having seen a case of yellow fever, but rather appear as a collator of facts in its history. At the present time the natural history of disease, if we may so use the term in describing the special characteristic distribution of diseases that exist in limited geographical areas, is attracting much attention. There can be no doubt that an accurate knowledge of the climate and other physical peculiarities, and of the prevailing meteorological conditions of a region, will greatly aid the sanitarian and physician in preventing sickness, and in treating successfully the diseases incident to a locality.

The more exact and extended this information becomes, the more definitely can physicians mark out the boundaries and the distribution of diseases over the globe, and suggest measures of relief.

The chief factors usually and most naturally taken into account in the study of the salubrity of a State, or even a city, are latitude, longitude, the extremes of heat and cold and mean annual temperature, the prevailing direction of the winds, the general humidity of the air, and the annual precipitation, drainage, etc.

These undoubtedly furnish most valuable information, but there is another important element, that of elevation, which has the power to intensify or counteract the influence of most of them.

The most insalubrious regions are, confessedly, the savannas and tide-water lands of the tropic and temperate zones. The impression is quite general that persons of the same nationality, living on mountains or high table-lands are more rugged and healthy, as a general rule, than their friends engaged in similar occupations on the low lands in the same latitude.

The accompanying map enables us, in a comprehensive way, to consider the question whether elevation has presented any barrier to the progress of yellow fever in the United States, by bringing all localities where it has prevailed, with their altitudes, before the eye at one time.

The fact will be patent to any one that the low lands of the Gulf States and the Atlantic coast, with the water-courses emptying into them, are the regions of its most frequent visitations in the United States.

The conceded home of yellow fever is in the West Indies and the Bahamas, with a portion of the adjacent continents of North and South America. A square formed by the forty-fifth and the one hundredth degrees of longitude, and the thirty-fifth north and the fifth south latitude, will include the favorite region of this disease.

Although originating within the square named, history shows that it may prevail on the sea-coast in any locality within the tropics, north and south of the equator, where malarial fevers prevail, and the daily average of the thermometer is over 75° or 80° with a high dew-point for weeks or months together.

If these latter conditions, however, were the only ones necessary to the development of this disease, it should prevail much more widely; for they exist, during parts of the summer at least, in almost all of our Atlantic cities, as may be seen by reference to the record of temperature shown by the admirable isothermal maps in Lorin Blodgett's *Climatology*.

There are, no doubt, other climatic conditions essential to its origin, if not to its propagation and spread. Once the disease has become epidemic in a place, it can exist at a much lower average daily range of the thermometer than seems to be required for its development.

It is, however, always controlled in its severity and checked in its spread, or entirely arrested by storms, heavy rains, and, most effectually, by frost. This has been exemplified by the polar waves, or "northers," that occasionally blow from the Arctic regions down over Texas, and by long-continued rains.

Yellow fever does not prevail in the East Indies nor in China. It has appeared in most of the maritime cities of the United States on the Atlantic coast, as far north as Boston, and indeed has been chronicled at Quebec and Halifax. But while it is true that it has thus visited many of the cities and towns on the sea-coast, it has, fortunately, never extended far into the interior of our country.

In the United States, it seems to prevail in the large sea-ports and in localities along the navigable water-courses having their outlet in the Gulf of Mexico. Dr. Drake, many years ago, observed that while the disease had appeared at almost every town on the Mississippi, as far up as Vicksburg, that Woodville, twelve miles from the river, was the most remote inland point it had reached. During the late epidemic at Shreveport, a number of deaths occurred, according to the report of the Howard Association, at points outside the city limits—distances from the city not given. The places named are Caddo Parish, Marshall, Greenwood, and Summer Grove.

The same accurate observer (Dr. Drake,) remarks that yellow fever is eminently a disease of cities rather than of rural districts, and of villages rather than of scattered country dwellings. It has been shown that towns of small population are less liable to suffer than larger ones, and the same town within the yellow-fever zone, as its population increases, is more likely to suffer than when its population was less. Hence density of population, or proximity of numerous individuals approaching to crowding, is believed to be a factor of no small influence in the propagation and spread of the disease.

Its appearance in a locality is generally coincident with bilious intermittents, and the first cases are said always to occur near the water in the lowest and most insalubrious places.

It has been observed that its epidemical limits coincide with the range of the growth of the live-oak, the cypress, and the long mosses. Certainly the regions of our country most frequented by this disease are particularly low and flat, with numerous rivers and much marsh and swamp lands, as may be inferred from the localities and their elevations marked on the map. These low lands are to a considerable extent covered with the cypress, long-leaved pine, and other indigenous trees, with thick undergrowth when in an unredeemed or natural state. The northern limit of the growth of the cypress is not much north of Norfolk.

Yellow fever has been considered by nearly all writers a distinct disease from the autumnal remittent fevers of the temperate zone. All agree that it is indigenous at Vera Cruz on the Gulf of Mexico. When we examine into the climatic conditions of this locality, nothing special or satisfactory as an explanation of the peculiarities and origin of the disease has been discovered.

Protracted average high temperature is a constant factor there, but this of itself is deemed insufficient. The time has, perhaps, not come, if it ever does, for the discovery of all the elements entering into its development.

No doubt there are numerous undiscovered factors and conditions, essential to its existence and present in varying intensity, in different years, and which greatly add to its rapid spread and virulence. The mortality from the disease at the same place is much greater in some seasons when the conditions of heat and moisture are apparently the same. Again, extreme heat and dryness stop the epidemic, as do heavy and protracted rains.

As we have already stated, the conditions of long-continued heat, averaging over 75° throughout the twenty-four hours, and great humidity exist almost constantly during the summer in the Gulf States. Occasionally during the summer season, for months together, this condition of high temperature, but with less moisture, may exist in many of the coast cities of our country, as far north as Boston, and yet rarely ever are these cities visited by this disease in an epidemic form.

Is the exemption of these more northern coast cities due alone to climatic conditions, or are they in part exempted by sanitary and quarantine regulations? Yellow fever is almost annually reported on vessels at the quarantine stations, where it is fortunately arrested and prevented from entering the cities. In the table of the localities where the disease has prevailed, no distinction has been made between the city proper and the quarantine stations which, in a more careful study, should be made.

The average annual distribution of moisture throughout our country is made manifest by a glance at Chas. A. Schott's Tables and Results of

the Precipitation in Rain and Snow, published in 1872 by the Smithsonian Institution, a most valuable contribution to knowledge in this direction. The humidity in the atmosphere is relative to the season, and, as is well known, the absolute humidity is greater in the summer than in the winter, warm air having a greater capacity to contain moisture than cold air, as the following table from Professor Guyot will show. This table expresses, in troy grains, the weight of vapor contained in a cubic foot of saturated air at the stated temperatures of Fahrenheit :

Temperature of air.	Vapor in grains.	Temperature of air.	Vapor in grains.	Temperature of air.	Vapor in grains.
0°	0.545	63°	6.361	80°	10.949
5	0.678	64	6.575	81	11.291
10	0.841	65	6.795	82	11.643
20	1.298	66	7.021	83	12.005
30	1.968	67	7.253	84	12.376
32	2.126	68	7.493	85	12.756
40	2.862	69	7.739	86	13.146
45	3.426	70	7.992	87	13.546
50	4.089	71	8.252	88	13.957
55	4.860	72	8.521	89	14.378
56	5.028	73	8.797	90	14.810
57	5.202	74	9.081	91	15.254
58	5.381	75	9.372	92	15.709
59	5.566	76	9.670	93	16.176
60	5.756	77	9.977	94	16.654
61	5.952	78	10.292	95	17.145
62	6.154	79	10.616	96	17.648

To see how far the conditions of a higher than ordinary average of temperature and a greater degree of humidity may have existed in Memphis and Shreveport during the prevalence of the epidemic of the past summer, we have been enabled, through the courtesy of General Myer, to tabulate the returns, nearly complete, made from Memphis to the United States Signal Bureau for the months of August, September, October, and November, 1872 and 1873. The former year, being healthy at this place, is included for the purpose of contrast. The meteorological tables for Shreveport are compiled from the observations furnished by Dr. J. L. Moore, of Shreveport, the regular observer for the Smithsonian Institution at that point. In addition to the ordinary observations, Dr. Moore gives the daily number of deaths occurring from yellow fever, which, for convenience, is placed in a parallel column on the side of the meteorological table, and on the line of the other daily observations. For Shreveport we are not able to give the observations in 1872 for contrast:

TABLE SHOWING THE METEOROLOGICAL CONDITIONS OBSERVED AT SHREVEPORT, LA., DURING THE YELLOW-FEVER EPIDEMIC OF 1873.

Compiled from the Register of Meteorological Observations under the direction of the Smithsonian Institution, J. L. Moore, M. D., Observer, to which is added the daily Number of Deaths from Yellow Fever.

[SHREVEPORT: County of Caddo, State of Louisiana; latitude, 32° 30' north; longitude, 93° 45' west; height above the sea-level, 228.52 feet.]

Day of month.	Thermometer in the open air.				Rain-fall, inches.	Amount of cloudiness.			Winds.*						Barometer reduced to freezing point.	Relative humidity or fraction of saturation.†			Deaths from yellow fever.	
									7 a. m.		2 p. m.		9 p. m.							
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.	Direction.	Force.	Direction.	Force.	Direction.	Force.	Mean.	7 a. m.	2 p. m.	9 p. m.		
Aug. 1	79	88	81	82½	.....	4-4	1-2	3-4	S. W.	5	S.	5	0	0	30.111	.86	.55	.83		
2	80	89	84	84½	.....	1-4	4-4	0	S. W.	6	0	0	0	0	30.068	.82	.53	.79		
3	80	90	85	85	.01	1-2	3-4	1-4	S. W.	7	N. W.	5	N.	1	30.083	.82	.53	.79		
4	80	90	79	79½	.40	3-4	4-4	1-4	E.	6	N. E.	12	0	0	30.132	.78	.78	.87		
5	74	84	78	78½	.....	3-4	3-4	0	N. E.	8	N. E.	7	N. E.	5	30.135	.76	.53	.69		
6	74	87	81	80½	.....	1-4	1-2	1-4	N. E.	6	N. E.	7	N.	5	30.165	.72	.45	.70		
7	80	81	80	80½	.....	4-4	4-4	1-2	0	0	E.	5	0	0	29.996	.75	.55	.82		
8	78	88	77	81	.13	0	4-4	3-4	S. E.	1	0	0	E.	2	29.994	.73	.52	.71		
9	77	87	81	81½	.11	1-4	3-4	3-4	E.	5	E.	7	E.	1	30.055	.82	.55	.78		
10	76	87	80	81	.....	4-4	3-4	4-4	E.	2	E.	8	E.	1	30.102	.91	.58	.82		
11	81	90	83	84½	.....	1-2	3-4	0	N. E.	4	S. E.	8	N.	4	30.031	.78	.60	.71		
12	82	91	81	84½	.....	3-4	3-4	4-4	N.	2	E.	5	E.	4	30.038	.70	.57	.78		
13	78	91	85	84½	.....	3-4	3-4	1-2	S. W.	6	S. W.	7	S. W.	2	30.014	.86	.54	.72		
14	80	90	76	82	.60	3-4	3-4	1-2	0	0	S. W.	7	0	0	29.971	.82	.56	.91		
15	76	91	77	81½	.24	3-4	3-4	4-4	N.	4	N.	2	S. E.	8	29.995	.94	.60	.91		
16	75	85	79	79½	.....	4-4	4-4	3-4	N. E.	4	N. E.	4	0	0	29.959	.90	.68	.87		
17	76	82	79	79	.05	4-4	4-4	1-2	N.	8	N.	5	N. E.	5	29.937	.91	.83	.78		
18	78	85	79	80½	.....	1-2	1-4	0	N. E.	5	N. E.	6	0	0	30.062	.69	.41	.70		
19	77	85	79	80½	.....	1-4	1-2	1-4	N. E.	1	E.	4	0	0	30.043	.69	.44	.66		
20	76	85	81	80½	.....	3-4	1-2	1-4	E.	1	S. E.	4	S. E.	4	29.961	.73	.47	.67	2	
21	76	82	79	79	.....	1-4	1-4	0	S. W.	1	N.	7	E.	2	29.969	.77	.83	.78		
22	79	86	79	81½	.....	1-2	3-4	0	0	0	E.	7	N. E.	2	30.029	.74	.48	.74	4	
23	76	86	79	80½	.....	3-4	3-4	0	E.	2	E.	5	0	0	30.076	.82	.58	.82		
24	81	88	84	84½	.....	0	1-2	1-4	S.	2	N. W.	5	0	0	30.107	.70	.49	.75	2	
25	81	90	83	84½	.....	0	1-2	1-2	S.	1	N. E.	4	0	0	30.037	.74	.50	.75	2	
26	79	90	77	82	.....	3-4	3-4	3-4	W.	6	N.	4	S. W.	2	30.020	.78	.53	.82	1	
27	78	91	86	85	.....	0	1-2	0	S. W.	1	N. E.	1	0	0	30.016	.78	.51	.68	3	
28	78	91	81	83½	.....	1-4	1-4	1-4	W.	4	N. W.	2	S. E.	2	30.053	.73	.54	.70	4	
29	79	84	80	83	.65	0	3-4	0	S. W.	1	0	0	S. E.	4	30.118	.74	.68	.87	4	
30	80	91	84	85	.....	0	1-2	0	S.	2	S.	5	S. W.	6	30.175	.82	.48	.64	2	
31	89	89	82	83½	.....	0	1-2	1-4	0	0	0	0	S. E.	1	30.133	.74	.50	.71	4	

REMARKS.—Normal summer-heat for this latitude prevailed during the month; mean temperature 82° 56'; highest at 2 p. m., 91° on the 12th, 13th, 15th, 27th, 28th, and 30th; lowest, 80° on the 4th. Force of wind remarkably uniform and moderate, scarcely rising at any time above the degree of "gentle." Yellow fever: The first death from yellow fever in Shreveport this summer was observed on the 20th day of August, which date proved the beginning of the epidemic of 1873. Total deaths from the disease during the month, 29.

* The force is estimated and registered by figures from 1 to 10, as in the first column of the following table. The figures in the last column, expressing the number of miles per hour, are used in the above.

1. Very light breeze.....	2 miles per hour.	6. Gale.....	45 miles per hour.
2. Gentle breeze.....	4 do.	7. Strong gale.....	60 do.
3. Fresh breeze.....	12 do.	8. Violent gale.....	75 do.
4. Strong wind.....	25 do.	9. Hurricane.....	90 do.
5. High wind.....	35 do.	10. Most violent hurricane.....	100 do.

† The numbers under the head of "Relative humidity" denote the percentage of saturation; full saturation being indicated by 1, and half saturation by 0.5.

Table showing the Meteorological Conditions observed at Shreveport, La., during the Yellow-Fever Epidemic of 1873—Continued.

Day of month.	Thermometer in the open air.				Rain-fall, inches.	Amount of cloudiness.			Winds.						Barometer reduced to freezing-point.	Relative humidity or fraction of saturation.			Deaths from yellow fever.
									7 a. m.		2 p. m.		9 p. m.						
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.	Direction.	Force.	Direction.	Force.	Direction.	Force.		Mean.	7 a. m.	2 p. m.	9 p. m.
Sept. 1	79	86	83	82.7	...	0	3.4	1.4	S. W.	4	S.	5	0	0	30.071	.78	.58	.71	6
2	78	91	81	83.3	...	1.2	1.2	4.4	S. W.	7	S.	7	7	7	30.042	.82	.45	.70	5
3	79	98	83	86.8	...	3.4	3.4	1.4	S. W.	6	S. W.	10	7	4	30.022	.82	.45	.60	5
4	78	92	82	84.4	...	3.4	1.2	0	S. W.	5	S.	7	0	0	30.052	.82	.43	.63	2
5	79	91	85	85	...	1.4	1.4	1.2	S. W.	2	N. W.	5	0	0	30.127	.82	.36	.64	4
6	77	91	79	82.3	...	3.4	1.2	3.4	N. W.	1	N. E.	6	N.	14	30.167	.77	.45	.74	7
7	74	83	72	76.7	.01	1.2	3.4	3.4	N. E.	7	N.	12	N. E.	8	30.214	.76	.67	.71	10
8	68	79	71	72.7	...	1.2	1.2	1.4	N. E.	8	E.	10	N. E.	4	30.178	.70	.58	.62	11
9	67	85	77	76.3	...	1.4	3.4	3.4	N. E.	5	N. E.	5	0	0	30.074	.69	.51	.73	8
10	75	87	79	80.3	...	1.2	1.2	1.4	N. E.	1	N. E.	4	S. E.	2	30.065	.77	.69	.70	15
11	77	87	81	81.7	...	1.4	1.2	1.2	N. E.	1	E.	4	S. E.	4	30.050	.73	.65	.59	18
12	77	76	73	75.3	...	4.4	4.4	4.4	0	0	S. E.	6	S. E.	5	29.999	.75	.82	.90	15
13	69	76	70	71.7	1.56	4.4	1.4	0	S. W.	1	N. E.	1	N. E.	10	30.076	.90	.64	.80	26
14	61	69	64	64.7	.06	0	0	0	N. E.	7	N. E.	7	N. E.	4	30.140	.71	.56	.78	24
15	64	81	69	71.3	...	0	0	0	N. E.	2	S. E.	4	E.	1	30.121	.68	.41	.85	31
16	67	83	73	74.3	...	0	1.4	0	E.	2	E.	6	0	0	30.107	.74	.30	.67	24
17	69	85	74	76	...	0	1.4	0	0	0	E.	2	0	0	29.978	.70	.41	.76	18
18	70	87	79	78.7	...	0	1.4	0	E.	1	N. E.	1	0	0	29.899	.80	.45	.74	19
19	75	87	72	78	...	0	1.2	0	N. E.	2	N. E.	1	N. E.	8	29.939	.72	.49	.76	16
20	63	77	69	69.7	...	0	1.4	0	N. E.	6	E.	7	N. E.	4	30.028	.62	.46	.56	14
21	63	80	69	70.7	.01	3.4	3.4	0	E.	4	E.	7	N. E.	6	30.021	.67	.51	.75	15
22	65	71	68	68	.05	4.4	1.2	1.4	0	0	N. E.	10	N. E.	2	30.002	.78	.85	.95	18
23	66	78	68	70.7	...	0	3.4	0	N. E.	5	N.	7	N.	5	29.970	.89	.54	.84	11
24	62	85	74	73.7	...	0	1.2	0	S. E.	2	S. W.	3	S.	8	29.866	1.00	.47	.76	10
25	70	87	75	77.3	...	0	1.2	0	S. E.	4	S. E.	4	S. E.	2	29.935	1.00	.62	.77	14
26	73	83	76	77.3	...	1.4	3.4	4.4	S. E.	6	S.	5	S. E.	5	29.988	.85	.83	.88	15
27	75	82	74	77	.48	4.4	4.4	1.2	S. E.	10	S. E.	4	S. E.	5	29.981	.80	.75	1.00	20
28	77	87	80	81.3	...	3.4	1.2	1.2	S. E.	2	S.	4	S.	6	29.928	.91	.62	.89	11
29	72	76	69	72.3	.12	4.4	4.4	4.4	N. E.	13	N. W.	6	N. E.	13	30.066	.95	.82	.95	7
30	64	74	64	67.3	...	4.4	1.4	0	N. E.	7	N. E.	6	N. E.	7	30.146	.73	.76	.73	7

REMARKS.—Extremes of temperature during this month: Highest at 2 p. m., 92°, on the 4th; lowest, 69°, on the 14th; mean for the month, 76°. 14. Humidity appears much greater than last September. Wind variable in force and direction. Yellow fever: Heavy mortality from yellow fever during this month, proving most fatal about the middle of the month, averaging seventy-five per cent. Total deaths from the disease, 406.

Table showing the Meteorological Conditions observed at Shreveport, La., during the Yellow-Fever Epidemic of 1873—Continued.

Day of month.	Thermometer in the open air.				Rain-fall, inches.	Amount of cloudiness.			Winds.						Barometer reduced to freezing-point.	Relative humidity or fraction of saturation.			Deaths from yellow fever.	
									7 a. m.		2 p. m.		9 p. m.							
									Direction.	Force.	Direction.	Force.	Direction.	Force.		Mean.	7 a. m.	2 p. m.		9 p. m.
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.												
Oct. 1	61	75	67	67	0	2-4	1-2	N. E.	5	N.	5	N. E.	7	30.083	.55	.44	.69	8		
2	65	79	71	71	3-4	0	0	N. E.	2	N. W.	2	N. W.	1	30.090	.73	.43	.80	11		
3	69	84	77	76	0	1-2	0	N. E.	2	E.	2	S. E.	1	30.028	.75	.54	.69	16		
4	73	88	80	80	0	1-2	0	S.	1	W.	5	0	0	29.953	.72	.40	.70	7		
5	74	88	80	80	0	3-4	1-4	0	0	N. W.	2	0	0	29.915	.72	.43	.70	11		
6	61	66	57	61	1-4	0	0	N.	18	N. E.	14	N.	10	30.137	.61	.32	.47	12		
7	54	64	59	59	0	0	0	N.	4	N.	5	0	0	30.136	.55	.34	.70	6		
8	54	63	63	61	3-4	3-4	0	0	0	E.	6	S. E.	2	30.116	.74	.56	.67	12		
9	55	77	69	67	0	1-2	1-2	S. E.	1	S. E.	7	S. E.	2	30.129	.81	.61	.75	10		
10	64	79	69	70	0	3-4	0	0	0	E.	5	0	0	30.178	.78	.47	.75	2		
11	65	87	75	75	4-4	1-2	0	0	0	N. W.	8	0	0	30.184	.78	.45	.68	3		
12	66	74	65	68	0	0	0	0	0	N. E.	10	N. E.	1	30.217	.54	.29	.49	2		
13	57	73	61	63	0	0	0	N. E.	1	E.	2	E.	5	30.163	.63	.24	.71	7		
14	56	74	65	65	0	0	0	0	0	E.	10	S. E.	4	30.186	.69	.36	.68	8		
15	62	79	73	71	3-4	1-2	1-4	S. E.	1	S. E.	10	S. E.	4	30.277	.72	.51	.63	3		
16	70	77	73	73	.05	4-4	4-4	1-2	2	S.	4	S. E.	1	30.190	.90	.77	.81	3		
17	69	80	75	74	.01	1-2	3-4	4-4	4	S. W.	8	S. E.	8	30.040	.80	.87	.78	3		
18	67	70	59	65	1.17	4-4	1-2	1-4	12	N.	8	N.	14	30.106	.95	.87	.78	5		
19	50	60	52	54	0	0	0	N.	15	N.	18	N. W.	7	30.253	.65	.29	.60	4		
20	46	70	46	57	0	0	0	W.	2	N. W.	7	N. E.	2	30.073	.77	.36	.81	5		
21	43	71	65	61	0	1-2	0	S. E.	2	N.	13	S.	7	29.860	.78	.49	.63	3		
22	63	68	50	60	1.00	4-4	4-4	4-4	2	S. W.	18	N. W.	7	29.969	.89	.95	1.00	4		
23	41	49	47	45	1.06	4-4	0	0	8	N. E.	8	N. E.	4	30.193	.91	.93	.85	6		
24	39	53	48	46	.01	1-4	1-4	4-4	4	S. E.	4	E.	6	30.246	.91	.80	1.00	3		
25	48	62	63	57	.85	4-4	4-4	4-4	5	E.	4	S. E.	4	30.133	1.00	.83	.94	2		
26	68	78	61	69	4-4	4-4	4-4	4-4	5	S. W.	5	N. W.	12	29.936	1.00	.91	.77	5		
27	45	60	54	53	3-4	1-4	0	N. W.	4	N.	5	S. W.	4	30.088	.84	.39	.61	5		
28	37	47	40	41	0	0	0	N.	7	N. W.	19	N. W.	8	30.454	.62	.28	.56	4		
29	33	55	47	45	0	0	0	...	...	S. W.	2	S.	4	30.376	.89	.62	.48	3		
30	42	67	53	54	0	0	0	S. W.	4	W.	10	N.	1	30.170	.74	.60	.86	3		
31	45	57	47	49	0	0	0	N.	8	N. E.	10	N. E.	4	30.341	.61	.31	.62	4		

REMARKS.—Extremes of temperature: Highest at 2 p. m., 88°, on the 4th; lowest, 47°, on the 28th; mean for the month, 62°.68. Variable winds; fluctuating barometer; thunder-storm on the 26th of the month; greatest force of the wind sixty miles an hour. *Yellow fever*: An abatement of the yellow fever, as shown by mortality, was noticed about the middle of September and continued through this month, making a difference of 210 in deaths. Total deaths from yellow fever for November, 196.

Table showing the Meteorological Conditions observed at Shreveport, La., during the Yellow-Fever Epidemic of 1873—Continued.

Day of month.	Thermometer in the open air.				Rain fall, inches.	Amount of cloudiness.			Winds.						Barometer reduced to freezing-point.	Relative humidity or fraction of saturation.			Deaths from yellow fever.
	7 a. m.	2 p. m.	9 p. m.	Mean.		7 a. m.	2 p. m.	9 p. m.	7 a. m.		2 p. m.		9 p. m.						
									Direction.	Force.	Direction.	Force.	Direction.	Force.					
Nov. 1	44	66	58	56	1.18	1.2	3.4	4.4	E.	4	S. E.	5	S. E.	1	30.313	.60	.59	.70	1
2	53	56	58	55	.28	3.4	4.4	4.4	N. E.	5	S. E.	2	N.	6	30.162	.80	1.00	1.00	1
3	54	57	54	55	.32	4.4	4.4	4.4	N. E.	7	N. E.	5	N. E.	2	30.182	1.00	.87	.93	2
4	54	60	58	57	.07	4.4	4.4	4.4	N. E.	6	N. W.	2	N. W.	6	30.074	1.00	.88	.94	1
5	56	60	58	58	.....	4.4	4.4	4.4	N.	4	0	0	N.	4	30.106	1.00	.88	.94	1
6	55	68	61	61	.....	3.4	3.4	0	N. W.	6	N.	2	0	0	30.042	.93	.65	.82	2
7	51	73	62	62	.....	0	0	0	W.	2	S. W.	2	W.	2	30.016	1.00	.46	.77	2
8	55	71	56	60	.....	0	0	0	N.	4	N.	1	N.	4	30.230	.80	.37	.81	2
9	47	74	60	60	.....	0	0	0	0	0	W.	2	0	0	30.224	.92	.29	.65	2
10	51	78	66	65	.....	0	0	0	0	0	W.	5	S.	8	30.116	.86	.29	.50	1
11	56	79	62	65	.....	1.4	0	0	S. W.	7	S. W.	2	N. W.	4	30.000	.69	.35	.46	.....
12	47	54	48	49	.....	1.4	0	0	N.	18	N. W.	16	N. W.	4	31.271	.48	.32	.36	.....
13	35	59	50	48	.....	0	0	0	0	0	S. W.	4	S. W.	7	30.179	.70	.47	.80	.....
14	42	67	58	55	.....	1.4	3.4	3.4	S.	2	S.	1	S.	4	30.171	.74	.33	.58	.....
15	55	69	64	62	.....	3.4	4.4	4.4	S.	4	S. W.	6	S.	6	30.135	.87	.65	.83	.....
16	65	74	66	68	.....	4.4	1.2	0	S. W.	5	S. W.	8	N. W.	30	29.966	.99	.59	.19	.....
17	51	73	68	64	.....	1.2	0	1.4	N. W.	6	N. W.	20	S. W.	4	29.623	.52	.17	.22	.....
18	53	58	48	53	.....	3.4	0	3.4	N. W.	4	N. W.	30	N.	20	30.033	.67	.26	.51	.....
19	54	53	58	55	.....	0	0	0	N. W.	1	N. W.	13	0	0	30.271	.45	.24	.64	.....
20	35	60	53	49	.05	0	3.4	4.4	S. E.	2	S.	5	S.	4	30.179	.70	.20	.73	.....
21	49	64	61	58	8.50	4.4	3.4	4.4	E.	2	S. E.	2	S. E.	6	33.135	.92	.67	.77	.....
22	60	66	64	63	3.85	4.4	4.4	4.4	S. E.	4	S. E.	2	N. E.	2	29.853	.94	.84	1.00	.....
23	62	62	59	61	.....	4.4	4.4	4.4	N. E.	10	E.	11	N.	4	29.808	.88	.94	.94	.....
24	47	50	48	48	.....	4.4	4.4	0	N.	11	N. W.	5	W.	4	30.119	.92	.72	.85	.....
25	66	63	55	61	.....	1.4	3.4	1.2	W.	4	N. W.	11	0	0	30.168	.69	.33	.50	.....
26	45	63	55	54	.....	3.4	3.4	1.2	S. E.	2	S.	6	S.	12	29.920	.76	.47	.68	.....
27	52	63	57	57	.....	4.4	1.2	4.4	S.	5	S.	1	0	0	29.985	1.00	.67	.81	.....
28	45	46	45	45	.....	4.4	4.4	4.4	N. E.	11	N. E.	5	E.	4	30.345	.53	.47	.53	.....
29	40	59	53	50	.....	4.4	0	1.2	E.	0	S. E.	4	S. E.	2	30.355	1.00	.48	.73	.....
30	51	70	63	61	.....	0	4.4	1.4	S.	6	S.	6	S.	8	30.275	1.00	.61	.78	.....

REMARKS.—Mean temperature for the month, 57.45°; highest at 2 p. m., 79°, on the 11th; lowest, 46°, on the 28th; first frost, night of the 12th and 13th. *Yellow fever*: Yellow fever continued to abate, until the 10th of the month, when the last death occurred; total deaths from yellow fever for the month, 10.

TABLE OF THE METEOROLOGICAL CONDITIONS OBSERVED AT MEMPHIS, TENN.

Compiled from the Reports of the Signal-Service, U. S. A., for Comparison

[MEMPHIS: County of Shelby, State of Tennessee; latitude 35° 07' north;

Thermometer.					Amount of cloudiness.*						Wind.						Barometer.†	Humidity, per cent.			
1872.				Mean.	Rain-fall, inches.	7.35 a.m.		4.35 p.m.		11 p.m.		7.35 a.m.		4.35 p.m.		11 p.m.		Mean.	7 a.m.	2 p.m.	9 p.m.
						Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.				
Aug.	7.35 a.m.	4.35 p.m.	11 p.m.			Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.				
1	72	89	80.50	...	0	2.4	0	2.4	0	...	...	N. W.	6	N. W.	4	30.07	.85	.56	...		
2	76	85	77	79.66	...	0	1.4	0	1.4	2.4	0	N. E.	5	N. W.	11	30.09	.72	.46	.64		
3	73	81	70	74.66	...	0	0	0	1.4	0	0	N. E.	4	N. W.	11	30.11	.71	.44	.65		
4	72	82	71	76.50	...	0	0	0	2.4	0	0	N. W.	6	N. W.	10	30.16	...	.45	.70		
5	69	70	90	76.33	...	0	1.4	0	1.4	0	0	N.	4	N.	4	30.15	.70	.50	.76		
6	74	88	78	80.00	...	0	0	0	2.4	0	0	N. E.	4	N. E.	4	30.14	.76	.52	.77		
7	78	90	85	84.33	...	0	1.4	0	2.4	1.4	0	N. E.	4	N. E.	4	30.11	.73	.47	.77		
8	80	93	78	82.00	...	1.4	0	0	2.4	0	0	S. E.	4	E.	4	30.10	.74	.55	.77		
9	78	94	75	82.33	...	0	1.4	0	1.4	4.4	0	S. E.	4	S. E.	4	30.10	.77	.40	.81		
10	77	90	80	82.33	...	0	2.4	0	1.4	0	0	S. E.	4	S. E.	4	30.05	.73	.44	.78		
11	80	93	83	85.33	...	0	0	0	2.4	1.4	0	S. E.	4	S. E.	4	30.05	.78	.42	.71		
12	81	78	76	78.33	...	1.4	0	2.4	1.4	3.4	0	S. W.	4	S. E.	0	30.05	.78	.77	.81		
13	77	85	79	80.33	...	0	1.4	2.4	1.4	1.4	2.4	S. E.	4	N. W.	4	30.06	.81	.68	.38		
14	79	88	79	82.00	...	0	2.4	0	1.4	0	0	W.	10	N. W.	N. E.	30.02	.82	.46	.74		
15	75	85	76	78.66	...	0	0	0	4.4	0	0	N.	0	N. W.	N. W.	30.07	.68	.41	.81		
16	74	82	77	78.66	...	0	0	0	2.4	0	0	N.	0	N. W.	N. W.	30.05	.81	.37	.64		
17	75	91	78	81.33	...	0	0	0	1.4	0	0	N. W.	1	S. E.	4	30.07	.68	.26	.69		
18	78	92	80	83.33	...	0	1.4	0	1.4	0	0	S. E.	1	N. E.	5	30.12	.65	.37	.70		
19	78	93	82	84.33	...	0	0	0	1.4	0	0	S.	1	S. E.	4	30.18	.77	.4	.66		
20	80	93	82	85.00	...	0	0	0	2.4	0	0	N. E.	0	E.	2	0	30.20	.70	.43	.70	
21	81	93	83	85.66	...	0	0	0	2.4	1.4	0	0	0	0	0	0	30.22	.70	.43	.75	
22	80	94	84	86.00	...	S.	2.4	0	1.4	0	1.4	0	0	N. W.	4	0	30.17	.78	.46	.59	
23	82	94	82	86.00	...	0	0	0	2.4	1.4	1.4	0	0	0	0	N. E.	1	30.03	.74	.46	.59
24	78	96	84	86.00	...	0	0	0	1.4	1.4	0	N. E.	1	S. W.	5	S. W.	7	29.96	.69	.29	.64
25	83	98	87	89.33	...	0	1.4	0	1.4	1.4	0	0	N. W.	4	0	0	30.02	.67	.38	.65	
26	82	97	84	89.33	...	0	1.4	1.4	1.4	2.4	0	S. E.	1	N. E.	4	S.	1	30.05	.70	.37	.64
27	80	93	82	85.00	.54	0	2.4	1.4	2.4	1.4	0	S.	1	W.	4	0	30.02	.78	.48	.74	
28	80	95	84	86.33	...	S.	1.4	0	1.4	1.4	0	S.	1	W.	6	S.	2	29.97	.78	.44	.71
29	79	87	84	76.66	...	0	2.4	0	2.4	2.4	0	N. W.	4	N. W.	12	N. E.	8	29.99	.77	.58	.67
30	68	80	66	71.33	...	0	1.4	0	1.4	1.4	0	N.	6	N. E.	10	N. E.	4	30.08	.74	.36	.58
31	62	78	66	68.66	...	1.4	2.4	0	1.4	1.4	0	N. E.	4	N. E.	8	N. E.	4	30.09	.66	.29	.58
Sept.																					
1	60	83	69	70.66	...	0	0	0	0	0	0	N. E.	3	N. E.	6	N.	4	30.17	.59	.21	.65
2	64	85	73	74.00	...	0	0	0	1.4	1.4	0	E.	1	N. W.	8	N.	1	30.16	.67	.32	.58
3	65	87	75	75.66	...	0	0	0	1.4	1.4	0	E.	1	N. W.	6	0	0	30.10	.73	.27	.63
4	69	89	75	77.66	...	0	1.4	0	0	0	0	0	0	S. W.	8	0	0	30.01	.84	.32	.59
5	69	91	79	79.66	...	S.	H.	S.	H.	0	0	S. W.	1	S. W.	10	S.	4	29.96	.70	.39	.78
6	74	92	79	81.66	...	0	0	0	2.4	0	0	S.	5	S. W.	9	S.	3	30.01	.67	.37	.58
7	75	93	82	83.33	...	1.4	0	0	1.4	0	0	S.	1	S.	6	S. W.	1	30.04	.68	.40	.59
8	76	93	80	83.00	...	0	0	0	1.4	0	0	S.	2	S. W.	10	S.	3	29.99	.68	.40	.62
9	76	89	76	80.33	...	0	1.4	0	2.4	0	0	S.	4	S. W.	7	S.	2	30.02	.68	.46	.68
10	71	91	81	81.00	...	S.	0	0	1.4	1.4	1.4	0	0	W.	4	S. E.	6	30.02	.71	.36	.67
11	76	...	...	76.00	1.10	0	2.4	...	...	...	...	N.	1	...	...	...	30.02	.72	...	...	
12	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	
13	59	74	65	66.00	...	0	0	0	0	0	0	N. W.	5	N. W.	10	N.	4	30.20	.87	.39	.63
14	60	75	65	66.66	...	0	0	0	0	0	0	N. W.	4	W.	12	N. W.	4	30.20	.70	.36	.63
15	60	77	65	67.66	...	0	0	0	0	0	0	0	0	W.	8	N.	1	30.13	.70	.41	.63
16	60	79	71	70.00	...	S.	0	0	2.4	0	2.4	N. W.	1	N. W.	8	N.	8	30.07	.82	.40	.66
17	60	77	65	67.33	...	0	1.4	0	0	0	0	N. E.	1	N. E.	6	0	0	30.08	.65	.31	.63
18	58	84	75	72.33	...	S.	1.4	0	0	0	0	0	0	S. W.	5	S. W.	6	29.98	.77	.40	.63
19	61	74	61	65.33	...	0	0	0	0	0	0	N.	5	N. E.	4	N. E.	2	30.11	.60	.32	.65
20	58	86	77	73.66	...	H.	2.4	0	2.4	0	0	S. E.	6	S. W.	6	S.	1	30.07	.64	.41	.77
21	72	89	79	80.00	...	H.	H.	0	H.	0	0	0	0	S. W.	6	S.	2	30.05	.71	.40	.61
22	72	89	79	80.00	...	2.4	1.4	0	2.4	1.4	2.0	S.	4	S. W.	8	S. E.	6	30.06	.75	.46	.58
23	70	87	76	77.66	...	1.0	2.4	0	2.4	1.4	2.0	S.	5	S.	8	S.	2	30.03	.79	.42	.64
24	75	87	83	81.66	...	2.4	1.4	2.0	2.4	0	4.4	S.	8	S.	12	S.	12	29.95	...	...	...
25	61	70	60	63.66	1.88	4.4	0	4.4	...	4.4	...	N.	8	S.	7	N. E.	4	30.13	.76	.55	.60
26	61	75	63	66.33	.33	4.4	...	4.4	...	4.4	...	S. E.	4	N.	6	S. W.	4	29.99	.76	.44	.70
27	56	77	66	66.33	...	1.4	0	0	1.4	4.4	...	N. E.	4	N. E.	6	E.	8	30.01	.88	.51	.72
28	70	73	67	66.66	.31	4.4	...	...	...	...	...	S.	8	S. W.	16	W.	8	29.97	.80	.31	.63
29	61	73	61	65.00	...	1.4	0	1.4	2.4	1.4	0	W.	2	W.	8	N. W.	2	30.14	.84	.80	.69
30	55	67	57	59.66	...	0	0	0	2.4	1.4	0	N. W.	6	N. W.	10	0	0	30.17	.76	.31	.71

* The letters "F," "H," and "S," indicate foggy, hazy, and smoky, respectively.

† The barometer-readings here given, and in the subsequent tables, are at the temperature given for the corresponding days, and not, as in the preceding tables, reduced to freezing-point.

DURING THE AUGUSTS, SEPTEMBERS, OCTOBERS, AND NOVEMBERS OF 1872 AND 1873.

of Conditions during the Absence and the Prevalence of Yellow Fever.

longitude 90° 07' west; height above the sea-level, 260 feet.]

Thermometer.					Amount of cloudiness.						Wind.						Humidity, per cent.				
1873.					Rain-fall, inches.	7.35 a.m.		4.35 p.m.		11 p.m.		7.35 a.m.		4.35 p.m.		11 p.m.		Barometer.			
	7.35 a.m.	4.35 p.m.	11 p.m.	Mean.		Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.		7.35 a.m.	4.35 p.m.	11 p.m.
Aug.																		Mean.			
1	70	85	69	74.66	2.94	4.4		3.4	1.4	4.4		S. W.	5	S. W.	6	S. W.	2	30.06	1.00	.68	
2	70	89	79	79.33		1.4	1.4	1.4	1.4	1.4		S. W.	2	S. W.	6	0	0	30.03	.94	.59	
3	82	72	77	77.00				1.4	1.4	0	0	0	0	N. E.	4	N.	12	30.08		.50	
4	68	79	69	72.00		0	1.4	0	1.4	0	0	N. E.	4	N. W.	10	N. E.	5	30.15	.81	.44	
5	69	82	72	74.33		0	0	1.4	1.4	0	0	N.	3	N. E.	12	N. E.	3	30.15	.74	.42	
6	71	87	76	74.66		0	0	1.4	2.4	1.4	1.4	N. E.	12	S. E.	5	S. E.	2	30.08	.75	.51	
7	72	81	74	75.66		2.4	1.4	2.4	1.4	0	1.4	E.	12	N.	8	N. E.	1	30.01	.60	.66	
8	73	88	78	80.33		0	0	1.4	1.4	0	1.4	S. E.	12	S. W.	5	S. E.	1	30.03	.85	.77	
9	77	91	78	82.00	.73	S.	1.4	1.4	1.4	0	1.4	0	0	N. W.	S. E.	1	30.05	.81	.50		
10	...	...	...	86.00	.23	...	...	1.4	2.4	2.4	0	0	0	N. W.	6	0	0	30.05		.56	
11	81	91	82	84.66		S.	1.4	1.4	1.4	0	0	E.	4	N.	6	N.	2	29.97	.82	.50	
12	79	93	82	84.66		1.4	2.4	1.4	1.4	2.4	H.	0	0	0	0	0	0	29.98	.82	.45	
13	78	86	76	80.00	1.09	2.4	2.4	1.4	2.4	1.4	0	S. W.	4	W.	N. W.	1	29.96	.86	.68		
14	75	85	75	78.33		S.	0	1.4	1.4	0	0	N. E.	1	N.	11	0	0	29.96	.76	.41	
15	72	87	79	79.33		S.	H.	1.4	2.4	1.4	0	N. E.	2	W.	4	S.	2	29.98	.75	.48	
16	73	79	74	75.33		4.4	...	4.4	...	...	...	W.	4	N. W.	11	N.	2	29.92	.90	.77	
17	...	...	...	78.00		...	1.4	1.4	1.4	0	0	0	0	N. W.	N. W.	5	29.98		.55		
18	71	81	71	74.00		S.	0	0	0	0	0	N.	2	N. W.	12	N.	2	30.05	.70	.41	
19	69	85	75	77.33		H.	1.4	1.4	2.4	1.4	0	N. E.	3	N.	8	E.	8	30.04	.70	.47	
20	71	86	74	77.00		S.	2.4	1.4	1.4	1.4	0	N. E.	1	N. W.	6	N.	2	29.93	.70	.31	
21	71	88	76	78.33		1.4	1.4	1.4	2.4	1.4	0	N. E.	2	N.	7	S.	2	29.98	.75	.76	
22	71	86	75	77.33		2.4	1.4	2.4	1.4	1.4	0	S. E.	2	N. E.	N. W.	1	30.01	.85	.51		
23	73	89	79	80.33		1.4	1.4	1.4	1.4	1.4	0	E.	1	E.	6	S. E.	1	30.02	.85	.49	
24	78	92	81	83.66		S.	1.4	H.	2.4	1.4	...	S. E.	1	S. W.	5	0	0	30.09	.86	.67	
25	80	92	82	84.66		0	0	1.4	1.4	0	0	N. E.	1	W.	4	N.	2	30.05	.78	.45	
26	79	94	83	85.33		0	1.4	1.4	1.4	0	0	S.	4	S. W.	5	S. W.	9	29.99	.82	.43	
27	77	93	75	81.66		2.4	1.4	0	2.4	4.4	...	N.	2	W.	4	S. E.	5	29.96	.86	.43	
28	75	88	77	80.00		S.	1.4	1.4	1.4	0	0	N.	4	N. W.	12	N. E.	4	29.95	.85	.49	
29	72	83	78	79.33		S.	1.4	1.4	1.4	1.4	0	N. E.	3	N. W.	N.	3	30.01	.80	.46		
30	77	92	78	82.33		0	0	1.4	1.4	0	0	N.	1	S. W.	5	0	0	30.09	.77	.34	
31	77	93	82	84.00		0	0	1.4	1.4	0	0	S. W.	1	S. W.	7	S. W.	6	30.11	.77	.48	
Sept.																					
1	80	92	81	84.33		1.4	1.4	2.4	1.4	1.4	H.	S. W.	6	S. W.	12	W.	3	29.97	.74	.45	
2	78	82	73	77.66	.48	0	1.4	H.	1.4	4.4	...	S. W.	1	N. W.	1	N. W.	7	30.01	.81	.66	
3	76	77	76	76.33	.40	2.4	1.4	2.4	1.4	0	1.4	S.	8	S. W.	3	S.	5	29.97	.86	.75	
4	76	89	79	81.33		H.	...	1.4	2.4	0	2.4	S. W.	6	S.	10	S. E.	5	30.12	.86	.52	
5	77	86	76	79.66		4.4	...	2.4	1.4	H.	1.4	S. W.	1	N.	9	N. E.	4	30.17	.75	.64	
6	74	84	72	76.66		S.	1.4	0	2.4	H.	H.	N. E.	3	N. E.	9	N. E.	5	30.30	.74	.84	
7	66	...	65	65.50	...	2.4	4.4	1.4	1.4	0	0	N.	3	N. E.	14	N. E.	3	30.26	.78	.54	
8	69	77	65	67.33	...	0	1.4	S.	0	0	0	N. E.	6	N.	10	N.	4	30.22	.65	.31	
9	63	83	73	73.00	...	0	1.4	1.4	2.4	0	1.4	N. E.	3	N.	10	N. E.	3	30.09	.73	.52	
10	69	86	76	77.00	...	2.4	1.4	2.4	1.4	0	0	S. E.	1	N.	4	0	0	30.07	.84	.44	
11	72	86	76	78.00	...	S.	1.4	1.4	1.4	1.4	0	S.	1	W.	5	0	0	31.05	.72	.48	
12	77	89	70	76.66	...	0	1.4	4.4	...	4.4	...	S. W.	2	S. W.	11	N.	13	29.96	.68	.52	
13	67	71	58	65.33	.10	4.4	...	1.4	2.4	0	0	N. E.	4	N.	14	N.	11	30.08	.84	.49	
14	53	68	58	59.66	...	S.	0	0	0	0	0	N.	5	N.	8	N.	2	30.14	.73	.42	
15	55	76	64	65.00	...	S.	0	S.	0	0	0	E.	2	W.	2	0	0	30.11	.68	.41	
16	65	82	71	72.66	...	S.	0	S.	1.4	0	0	0	0	N. W.	8	0	0	30.11	.71	.42	
17	66	86	75	75.66	...	S.	1.4	S.	1.4	0	0	0	0	W.	4	S. E.	4	29.99	.83	.41	
18	70	85	75	76.66	...	S.	1.4	1.4	1.4	S.	0	0	0	N. W.	6	0	0	29.91	.70	.50	
19	63	69	55	62.66	...	4.4	...	S.	1.4	S.	0	N.	13	N.	13	N.	5	30.00	.72	.39	
20	53	64	58	58.33	...	1.4	1.4	4.4	...	4.4	...	N. E.	4	N. W.	10	N. E.	2	30.09	.60	.52	
21	58	73	65	65.33	...	1.4	2.4	3.4	1.4	4.4	...	N. E.	2	N. W.	9	N. E.	2	30.07	.64	.42	
22	65	70	63	65.00	.51	1.4	2.4	4.4	...	1.4	0	W.	3	N.	11	N. E.	3	30.06	.76	.65	
23	60	70	61	63.66	...	4.4	...	1.4	1.4	0	0	N. E.	8	N. W.	6	N.	2	29.98	.92	.61	
24	56	73	68	65.66	...	F.	...	2.4	1.4	4.4	...	S. E.	3	S. E.	6	S.	4	29.86	.87	.67	
25	66	79	74	73.00	...	4.4	...	1.4	2.4	0	0	N.	5	N. W.	6	S.	4	29.93	.89	.65	
26	70	87	76	77.66	...	0	0	1.4	1.4	0	0	S.	7	S. E.	8	S. E.	4	29.99	.89	.45	
27	72	78	76	75.33	.82	4.4	...	4.4	...	4.4	...	E.	4	S. E.	2	S. W.	4	30.03	.55	.86	
28	72	84	71	75.66	.24	...	...	1.4	2.4	4.4	...	S. E.	2	S.	9	N.	9	29.95	.90	.64	
29	71	63	59	64.33	1.18	4.4	...	...	...	4.4	...	0	0	N. W.	13	N. W.	9	30.05	.89	.83	
30	54	66	56	58.66	...	0	1.4	0	0	0	0	N. E.	8	N.	13	N. E.	7	30.17	.80	.45	

Table of Meteorological Conditions observed at Memphis, Tenn., during the Augusts,

1872.	Thermometer.				Amount of cloudiness.						Wind.						Humidity per cent.						
	Oct.	7. 35 a. m.	4. 35 p. m.	11 p. m.	Mean.	Rain-fall, inches.	7.35 a.m.		4.35 p.m.		11 p. m.		7.35 a.m.		4.35 p.m.		11 p. m.		Barometer.	Mean.	7. 35 a. m.	4. 35 p. m.	11 p. m.
							Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.					
1	45	71	61	59.00	.....	1.4	0	0	0	1.4	0	0	W.	1	N.W.	4	S.W.	8	30.21	.85	.36	.71	
2	46	56	78	66.66	.....	2	0	0	0	4.4	0	0	W.	2	N.W.	4	S.W.	8	1 30.14	.74	.42	.73	
3	44	64	84	73	73.33	.....	0	0	H.	0	0	0	W.	2	N.W.	4	S.W.	8	1 30.00	.76	.40	.71	
4	67	84	71	74.00	.....	F.	0	0	H.	0	0	0	S.W.	2	N.W.	4	S.W.	4	30.12	.84	.40	.70	
5	65	83	70	72.66	.....	0	0	0	2.4	1.4	H.	0	S.W.	2	N.W.	4	S.W.	4	30.02	.73	.42	.70	
6	65	65	63	64.33	1.96	2.4	2.4	4.4	0	0	0	0	N.W.	1	N.W.	4	S.W.	12	30.95	.73	.94	.94	
7	56	70	58	61.33	.....	1.4	1.4	0	0	0	0	0	N.E.	4	N.W.	4	N.	0	30.13	.87	.65	.80	
8	53	72	58	61.00	.....	0	1.4	0	0	1.4	0	0	N.E.	4	N.W.	4	N.	0	30.13	.79	.34	.81	
9	52	76	63	63.66	.....	2	0	0	2.4	S.	2.4	0	N.E.	4	N.W.	4	N.	0	30.13	.86	.41	.88	
10	53	58	46	52.33	.....	0	0	S.	0	0	0	0	W.	16	N.W.	16	N.	4	30.31	.55	.42	.54	
11	42	59	48	49.66	.....	2	0	0	0	0	0	0	N.	4	N.W.	4	N.	1	30.29	.66	.43	.77	
12	38	65	53	52.00	.....	2	0	0	0	0	0	0	N.	1	N.W.	4	N.	1	30.11	.90	.38	.66	
13	51	67	56	58.00	.....	0	0	H.	0	0	0	0	N.W.	2	N.W.	4	N.	30.09	.72	.58	.51		
14	42	55	44	47.00	.....	0	0	0	0	S.	0	0	N.W.	2	N.W.	4	N.	30.02	.66	.38	.45		
15	43	68	61	57.33	.....	0	0	4.4	0	0	2.4	0	S.	12	N.W.	12	S.W.	4	30.12	.64	.61	.78	
16	59	70	64	64.33	.....	1.4	2.4	H.	4.4	1.4	2.4	0	S.W.	1	N.W.	4	S.W.	1	30.21	.81	.51	.83	
17	59	75	63	65.66	.....	2.4	2.4	H.	1.4	S.	0	0	N.W.	4	N.W.	4	0	0	30.25	.93	.29	.74	
18	53	71	55	59.66	.....	F.	0	0	0	S.	0	0	N.W.	0	0	0	0	0	30.24	.92	.25	.74	
19	47	71	55	57.66	.....	F.	0	0	0	S.	0	0	N.W.	0	0	0	0	0	30.14	.85	.31	.68	
20	49	73	56	59.33	.....	F.	0	0	2.4	0	0	0	0	0	0	0	0	30.24	.86	.51	.89		
21	53	74	65	64.00	.02	S.	4.4	1.4	2.4	4.4	0	0	E.	3	N.E.	S.E.	N.E.	12	30.14	.94	.94	.94	
22	63	64	54	60.33	.77	4.4	4.4	4.4	4.4	4.4	0	0	N.	4	N.E.	N.E.	N.E.	5	30.29	.85	.69	.72	
23	51	58	51	53.33	.05	4.4	4.4	4.4	1.4	0	0	0	N.	4	N.E.	N.E.	N.E.	4	30.24	.76	.51	.68	
24	46	63	55	54.66	.....	S.	2.4	0	2.4	1.4	0	0	N.W.	4	N.W.	N.E.	N.E.	3	30.14	.85	.57	.66	
25	48	64	53	55.00	.....	S.	0	0	2.4	S.	0	0	N.W.	4	N.W.	N.E.	N.E.	3	30.07	1.00	.41	.79	
26	45	67	53	55.00	.....	S.	0	0	0	0	0	0	0	0	0	0	0	30.07	.84	.48	.80		
27	47	70	56	57.66	.....	S.	0	0	H.	S.	0	0	0	0	0	0	0	30.14	.78	.34	.43		
28	49	72	60	60.33	.....	S.	0	0	0	1.4	0	0	N.E.	1	S.	E.	0	0	30.09	.51	.45	.53	
29	56	66	65	62.33	.....	2.4	2.4	4.4	0	2.4	0	0	S.E.	5	S.	E.	N.W.	1	30.18	.93	.40	.78	
30	56	61	49	55.33	.27	4.4	4.4	0	1.4	S.	0	0	N.W.	4	N.W.	0	0	0	30.24	1.00	.30	.63	
31	38	61	51	50.00	.....	F.	0	0	1.4	S.	0	0	0	0	N.E.	3	0	0					
Nov.																							
1	42	62	52	55.33	.....	S.	1.4	2.4	2.4	0	0	0	E.	2	S.	S.W.	2	30.14	.82	.62	.86		
2	47	62	50	53.00	.....	1.4	H.	0	0	0	0	0	W.	8	W.	S.W.	2	30.09	.84	.32	.64		
3	41	65	55	53.66	.....	S.	H.	0	H.	0	0	0	N.E.	6	E.	S.E.	4	30.13	.65	.33	.56		
4	51	62	64	59.00	.....	S.	2.4	4.4	4.4	0	0	0	S.E.	4	E.	S.E.	12	30.00	.65	.51	.43		
5	54	57	47	52.66	.03	4.4	4.4	4.4	.....	S.	.....	.....	S.	4	N.W.	N.	4	30.12	.86	.75	.84		
6	43	47	47	45.66	.....	4.4	4.4	4.4	4.4	.....	.....	.....	N.	1	N.	N.	8	30.16	.75	.77	.69		
7	41	57	52	50.00	.....	4.4	4.4	1.4	H.	4.4	.....	.....	0	0	0	0	0	30.11	.91	.54	.60		
8	47	69	55	54.00	.....	4.4	4.4	1.4	3.4	4.4	.....	.....	N.E.	3	N.E.	N.E.	3	30.03	.77	.44	.66		
9	50	65	53	56.00	.01	1.4	0	0	1.4	S.	1.4	0	N.E.	8	N.W.	E.	5	29.92	.51	.48	.48		
10	51	58	56	55.00	.....	4.4	4.4	4.4	4.4	.....	.....	.....	S.E.	4	N.W.	S.	4	30.00	.92	.58	.56		
11	55	65	52	57.33	.35	4.4	1.4	3.4	4.4	.....	.....	.....	S.W.	3	S.E.	E.	12	30.07	.86	.63	1.00		
12	43	55	51	49.66	.....	1.4	0	0	2.4	4.4	.....	.....	N.	4	S.E.	16	E.	6	30.07	.83	.59	.59	
13	51	58	44	51.00	.....	4.4	0	0	0	9	0	0	S.	8	N.W.	10	N.W.	16	29.97	.85	.31	.37	
14	31	39	31	33.66	.....	0	0	H.	0	0	1.4	0	N.W.	8	N.W.	12	W.	6	30.30	.38	.34	.58	
15	26	36	31	31.00	.....	2.4	1.4	0	2.4	0	0	0	W.	5	W.	14	N.W.	8	30.03	.75	.55	.58	
16	27	34	29	30.00	.....	S.	2.4	S.	0	S.	9	0	W.	8	N.W.	4	N.	2	30.15	.52	.34	.52	
17	21	36	33	30.00	.....	S.	1.4	0	2.4	0	1.4	0	0	0	W.	3	0	0	30.29	.71	.46	.80	
18	27	40	33	33.33	.....	F.	H.	S.	H.	S.	0	0	S.W.	1	S.W.	8	S.	3	30.42	.76	.39	.50	
19	33	52	47	44.00	.....	S.	2.4	S.	3.4	4.4	.....	.....	S.	6	N.W.	7	N.	8	30.17	.51	.29	.41	
20	29	46	40	38.33	.01	S.	1.4	4.4	.....	S.	0	0	N.	8	N.E.	3	S.E.	6	30.30	.63	.25	.44	
21	29	45	41	42.00	.....	S.	0	0	0	0	0	0	S.	4	S.W.	4	S.W.	4	30.06	.55	.69	.55	
22	36	37	47	46.66	.....	S.	0	0	0	0	0	0	W.	4	S.W.	4	S.	5	30.58	.71	.33	.34	
23	48	65	61	58.00	.....	4.4	4.4	3.4	1.4	4.4	.....	.....	S.	5	S.E.	12	S.E.	4	30.23	.70	.30	.34	
24	48	40	31	42.00	.90	4.4	.....	4.4	.....	2.4	.....	.....	N.W.	14	N.E.	2	N.E.	8	30.12	1.00	.82	.90	
25	47	40	41	43.00	.....	4.4	.....	S.	H.	S.	0	0	N.	3	N.E.	5	0	0	30.17	.64	.56	.73	
26	34	43	31	36.00	.....	F.	0	0	0	0	0	0	N.	8	N.E.	5	N.E.	4	30.43	.61	.21	.38	
27	26	37	37	31.50	.....	S.	H.	.....	S.	H.	N.W.	1	N.W.	1	W.	N.	N.W.	8	30.47	.63	.39	.39	
28	18	26	23	22.33	.....	0	0	0	2.4	S.	H.	N.W.	12	W.	7	N.	3	30.67	.52	.34	.46		
29	20	34	34	29.33	.....	S.	1.4	S.	1.4	.....	.....	.....	S.	2	S.	6	S.	14	30.25	.70	.34	.46	

Septembers, Octobers, and Novembers of the years 1872 and 1873—Continued.

1873.	Thermometer.				Amount of cloudiness.						Wind.					Humidity.		
Oct.	7.35 a. m.	4.35 p. m.	11 p. m.	Mean.	Rain-fall, inches.		7.35 a. m.		4.35 p. m.		11 p. m.		7.35 a. m.		4.35 p. m.		11 p. m.	
					Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1	53	69	63	61.66	0	2.4	3.4	1.4	2.4	2.4	0	0	N.	6	N.E.	8	N.	4
2	53	73	65	67.00	4.4	2.4	2.4	2.4	0	0	0	0	E.	6	N.W.	10	N.	10
3	62	70	70	66.00	0	1.4	1.4	1.4	0	2.4	0	0	E.	6	N.W.	10	N.	10
4	70	76	66	70.66	0	2.4	0	1.4	0	0	0	0	S.W.	10	N.W.	10	N.	10
5	62	63	63	63.00	S.	2.4	0	0	0	0	0	0	N.	12	N.	16	N.	16
6	46	56	47	49.66	0.4	1.4	0	1.4	0	0	0	0	N.	12	N.	16	N.	16
7	42	59	50	50.33	0	0	0	0	0	0	0	0	N.	12	N.	16	N.	16
8	46	69	56	57.00	0	0	0	1.4	0	0	0	0	N.	12	N.	16	N.	16
9	52	68	60	60.00	S.	0	0	0	0	0	0	0	N.	12	N.	16	N.	16
10	52	76	64	64.80	0	0	2.4	2.4	S.	1.4	0	0	E.	6	N.W.	10	N.	10
11	50	77	65	67.33	0	1.4	1.4	0	0	0	0	0	N.W.	10	N.W.	10	N.	10
12	54	66	55	58.33	0	0	0	1.4	0	0	0	0	N.W.	10	N.W.	10	N.	10
13	46	69	54	56.33	E.	0	2.4	0	0	0	0	0	N.W.	10	N.W.	10	N.	10
14	46	74	61	60.33	S.	0	2.4	0	S.	0	0	0	E.	6	N.W.	10	N.	10
15	57	66	61	61.50	0	1.4	1.4	2.4	1.4	0	0	0	S.E.	6	S.E.	6	S.W.	10
16	67	80	70	72.33	1.4	2.4	1.4	2.4	0	0	0	0	S.	6	S.E.	6	S.W.	10
17	64	79	72	71.66	1.4	2.4	1.4	2.4	4.4	0	0	0	S.	6	S.E.	6	S.W.	10
18	55	57	52	54.66	1.76	4.4	0	0	0	0	0	0	N.W.	16	N.	12	N.	12
19	46	56	47	49.66	0	1.4	0	0	1.4	0	0	0	N.	6	N.W.	12	N.	12
20	44	55	46	48.33	0	0	0	0	0	0	0	0	N.	6	N.W.	12	N.	12
21	40	63	56	53.00	S.	0	0	0	0	0	0	0	N.	6	N.W.	12	N.	12
22	58	68	57	61.00	1.12	1.4	2.4	0	0	0	0	0	W.	12	S.W.	6	S.	6
23	40	40	36	38.66	1.09	4.4	4.4	0	0	0	0	0	N.	6	N.W.	10	N.	10
24	38	55	47	46.66	4.4	4.4	4.4	0	S.	2.4	0	0	N.	6	N.W.	10	N.	10
25	46	52	52	50.00	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	N.E.	12	N.E.	4	E.	3
26	57	65	61	61.00	1.04	4.4	4.4	4.4	4.4	4.4	4.4	4.4	N.E.	12	N.E.	4	E.	3
27	38	56	50	48.00	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	W.	4	S.W.	11	N.W.	16
28	32	41	34	35.66	0	0	0	0	0	0	0	0	W.	4	S.W.	11	N.W.	16
29	30	48	42	40.00	0	0	0	0	0	0	0	0	W.	4	S.W.	11	N.W.	16
30	42	58	46	48.66	1.4	2.4	2.4	1.4	0	0	0	0	S.W.	6	S.W.	6	S.	2
31	36	47	37	40.00	0	0	0	0	0	0	0	0	N.W.	6	N.W.	6	0	0
Nov.	7.35 a. m.	4.35 p. m.	11 p. m.	Mean.	Rain-fall, inches.		7.35 a. m.		4.35 p. m.		11 p. m.		7.35 a. m.		4.35 p. m.		11 p. m.	
					Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Lower.	Upper.	Direction.	Velocity.	Direction.	Velocity.	Direction.	Velocity.
1*	29	47	43	43.33	0	0	S.	1.4	S.	1.4	S.	1.4	E.	3	S.E.	5	S.E.	5
2	45	59	47	53.66	1.4	1.4	4.4	4.4	4.4	4.4	4.4	4.4	S.	3	S.E.	5	N.W.	10
3	48	58	49	51.66	0.1	4.4	4.4	4.4	S.	1.4	S.	1.4	N.E.	4	N.E.	6	N.E.	2
4	46	53	52	50.33	2.7	4.4	4.4	4.4	4.4	4.4	4.4	4.4	N.E.	4	N.E.	6	N.E.	2
5	53	61	59	57.66	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	N.	3	N.E.	2	N.E.	1
6	52	64	55	57.00	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	N.	5	N.E.	6	N.E.	1
7	50	68	62	60.00	S.	1.4	S.	0	2.4	0	N.W.	10	N.W.	8	N.W.	6	N.W.	6
8	48	65	53	55.33	S.	0	S.	0	S.	0	N.W.	10	N.W.	4	N.W.	4	N.W.	4
9	46	69	56	57.00	S.	0	0	0	S.	0	S.W.	12	S.W.	2	S.W.	2	S.W.	2
10	48	74	59	60.33	S.	0	S.	0	S.	0	S.W.	12	S.W.	2	S.E.	2	S.E.	2
11	54	75	60	63.00	S.	1.4	S.	0	4.4	0	S.W.	6	S.W.	11	N.W.	12	N.W.	12
12	45	46	40	43.66	4.4	4.4	4.4	4.4	0	0	N.W.	6	N.W.	8	N.W.	1	N.W.	1
13	38	49	42	41.33	S.	1.4	S.	0	S.	0	W.	1	S.	6	S.	6	S.	6
14	38	57	49	48.00	S.	0	S.	0	0	0	N.W.	1	N.W.	1	S.	6	S.	6
15	50	68	64	60.00	1.4	2.4	S.	1.4	3.4	0	S.W.	6	S.W.	14	S.W.	8	S.W.	8
16	62	62	62	62.00	4.4	4.4	4.4	4.4	4.4	4.4	4.4	4.4	S.W.	8	S.W.	8	S.W.	8
17	60	55	57	57.50	4.4	4.4	4.4	4.4	0	H.	0	0	S.	6	S.W.	3	S.W.	3
18	47	43	33	41.00	4.4	4.4	4.4	4.4	0	0	N.W.	27	N.W.	16	N.W.	20	N.W.	20
19	26	36	32	31.33	S.	0	S.	0	H.	0	N.W.	4	N.W.	12	W.	1	W.	1
20	29	45	40	38.00	H.	H.	H.	H.	0	0	N.W.	4	N.W.	12	W.	1	W.	1
21	45	55	49	49.66	F.	4.4	4.4	4.4	4.4	4.4	S.W.	11	S.	6	S.	6	S.	6
22	49	52	49	50.00	1.80	4.4	4.4	4.4	4.4	4.4	S.	11	S.	6	S.	6	S.	6
23	53	56	54	54.33	7.9	4.4	4.4	4.4	4.4	4.4	S.E.	5	S.E.	10	S.E.	7	S.E.	7
24	46	46	43	45.00	0.7	4.4	4.4	4.4	4.4	4.4	N.W.	10	N.W.	9	N.W.	9	N.W.	9
25	45	50	44	46.33	S.	0	S.	0	0	0	W.	9	W.	10	S.	6	S.	6
26	37	59	51	49.00	S.	0	S.	0	1.4	0	S.	10	S.	10	S.	10	S.	10
27	44	54	43	47.00	S.	0	S.	0	4.4	0	S.W.	1	N.	8	N.E.	10	N.E.	10
28	42	35	38	38.50	S.	0	S.	0	0	1.4	N.E.	6	N.E.	6	N.E.	5	N.E.	5
29	34	45	44	41.00	S.	2.4	F.	2.4	0	2.4	N.E.	5	N.E.	3	N.E.	3	N.E.	3
30	38	58	57	51.00	0	2.4	3.4	2.4	2.4	2.4	E.	3	S.E.	3	S.E.	8	S.E.	8

* Frost during nights of October 6-7, and October 31 and November 1.

The foregoing record of the meteorological conditions observed during the period of the prevalence of the epidemic yellow fever at Memphis and Shreveport in 1873, undoubtedly furnish important facts which are essential to a correct study of the habits and climatic conditions under which this disease exists. Yet we are unable to deduce from them, or to recognize any positive factor or factors that can satisfactorily account for the outbreak and the prevalence, for months, of a specific fever which is very generally believed by physicians to have been imported from New Orleans, where, however, it was not recognized as being epidemic or even extensively prevalent during any part of the summer.

We may here remark, that in the study of this disease as seen in the United States, it is to man himself, and his neglect of the laws governing health and the sanitary conditions of his abode, that we must look for at least some of the exciting causes.

That the disease has limits varying its boundaries during particular seasons, will be readily conceded. One of the limiting causes assigned by most observers, is low temperature. We believe that elevation and a comparatively dry atmosphere may be added.

We ask the question if, from the facts furnished by the different visitations of yellow fever within the United States, elevation is entitled to be credited in any degree with controlling the spread of the disease to interior towns; and if so, does the elevation control it in any other mode than by the effect of a cooler and drier atmosphere than prevails in the low lands in the same vicinity?

Nothing is truer than that man's health is affected by his surroundings. Where a rapid vegetable growth and decay go on, as in the tropical and semi-tropical regions, these localities must always have conditions peculiar to themselves, which influence powerfully both health and disease, although their modes of action may escape our observation.

Humboldt long ago observed that this fever did not exist at high altitudes. A. Keith Johnson, in his valuable *Physical Atlas*, says: "At Xalapa, in Mexico, on the same parallel with Vera Cruz, but 4,330 feet above the sea, yellow fever is unknown." In Jamaica, Maroontown and the Phoenix Park, at an elevation of 2,000 feet, are noted for their healthfulness, while yellow fever rages along the coast, cutting off many hundreds annually. In this island, however, it has been known to exist in a mild form on Stony Hill, elevated 1,360 feet.

Major Tullock, of the British army, remarks that this disease has never been known in any climate at an elevation of 2,500 feet. Mount Desmoulin, near Roseau, in the island of Dominica, 1,500 feet above the sea, is always free from fever, even while it is epidemic at the water-line. The same exemption is observed in the northern and elevated parts of San Domingo, whatever may be the character of the soil.

Dr. Drake, in his work, fixes a limit to this fever in the United States at 400 feet. These figures would seem to be not far out of the way.

This view of the limitation to the spread of yellow fever by elevation has been observed in Cuba and elsewhere.

Fort Smith, in Arkansas, 460 feet above the sea, is the highest point at which this fever has prevailed as an epidemic in the United States. Although Winchester, Va., at an altitude of 700 feet, is placed upon the map, the cases reported to have occurred there in 1802 are not well authenticated. A correspondence with Dr. G. Miller, an old and intelligent physician of that place, was opened to verify the report, but nothing could be learned that would give credibility to the statement. As a faithful chronicler, however, we do not feel at liberty to omit the mention of the disease at this place, with the authority, and the less so since a person *en route* from the South died there shortly after his arrival, in 1871, of what was supposed to be yellow fever. There is much room for doubt, also, as to the correctness of the diagnosis that recognized yellow fever at Gallipolis, in Ohio, in 1796, and in Bald Eagle Valley and Nittany, in Pennsylvania, in 1799.

The cases at Cincinnati in 1871 and 1873 were strangers, reported to have been brought there on boats from New Orleans and Memphis, which renders it probable that they were yellow fever, but contracted before sailing. No new cases occurred at Cincinnati. Those reported at Winchester, Gallipolis, Bald Eagle Valley, Nittany, and other points, not here questioned, may have been only aggravated cases of bilious fevers.

But lest we be misled, and attribute too much influence to elevation, we should not forget the remark of the late Dr. La Roche, who notices how securely a stranger may live in the near vicinity of the epidemic, provided he does not enter the infected district. This fact suggests that the stratum of air, in which the infection peculiar to yellow fever exists, is heavier than air free from the poison, and which therefore seeks the lowest and dampest localities.

If this view should be verified by careful and repeated observations, it would suggest that houses and hospitals, in districts particularly liable to yellow fever, should be built upon columns or supports 10 or 12 feet high, with the space beneath paved and left open for the free circulation of air. The occupants might thus, to some extent, escape breathing the heavier and more noxious stratum of air.

It is clear, as shown by this map, that the disease has, in the United States, never in an epidemic form reached an elevation of 500 feet. If elevation, then, can exempt the inhabitants of a place from such a terribly destructive disease, the profession should, and will, avail itself of this means of protecting life, namely, the removal of all susceptible persons out of the infected district to an elevation above 500 feet if practicable. So far as we could collect facts bearing upon the point in question as to each locality we have done so, and they are given in the following table:

TABLE OF LOCALITIES IN THE UNITED STATES WHERE YELLOW FEVER HAS APPEARED SINCE A. D. 1668.

With their Elevations above the Sea-level; Dates of Commencement and Suspension of the Disease; Mortality; and Authorities for the Statements.

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Alabama.	Blakely, Baldwin Co.	On Tensaw River.	25	1822					Drake, Principal Diseases of Interior Valley, North America, p. 255.
	Cahawba, Dallas Co.	On Alabama River.	175	1853					E. H. Barton, Report Sanitary Commission of New Orleans, 1857, p. 65.
	Citronelle, Mobile Co.	On Mobile and Ohio Railroad.	65	1853					J. C. Nott, N. O. M. & S. J., 1854, p. 571.
	Dog River Cotton Factory.	Five miles from Mobile.	30	1853	Aug. 8				C. Whittleworth, Ch. M. J. & Rev., 1859, p. 479.
	Demopolis, Marengo Co.	On Tombigbee River.	125	1853					E. D. Fenner, History of Epidemic Yellow Fever, 1853, p. 49.
	Fort Claiborne, Monroe Co.	Alabama River.	75	1819	July 4	1819	Dec. 1		Harvey E. Brown, (asst. surg., U. S. A.,) Quarantine, on the southern and Gulf coasts, 1872.
	Fort Morgan Island.	Mobile Bay.	20	1867	Aug. 13				Brown, Quarantine, p. 44.
	Fort Saint Stephens, Washington Co.	Tombigbee River.	75	1819	July 4	1819	Dec. 1		Dowler, Yellow Fever of 1853, p. 16.
	Fulton, Sumpter Co.	Tombigbee River.	120	1853					N. O. Med. and Surg. Jour., vol. 11, 1854, p. 52.
	Hollywood.	Tombigbee River.	75	1853					E. H. Barton, Report San. Com. of N. O., 1857, p. 65.
	Mobile, Mobile Co.	Mobile Bay.	50	1765					P. H. Lewis, N. O. M. J., 1845, vol. 1, No. 4, p. 283.
				1765					Drake, Dis. Int. Valley of N. A., p. 216.
				1819	Aug. 15		Nov. —	574	P. H. Lewis, N. O. M. J., vol. 1, No. 4, 1845, p. 283.
				1831					P. H. Lewis, N. O. M. J., vol. 1, No. 4, 1845, p. 284.
				1832					Drake, Dis. Int. Valley of N. A., p. 191.
				1834					Do.
				1835	Sept. —				Do.
				1837	Aug. —				Drake, Dis. Int. Valley of N. A., p. 219.
				1838					Do.
				1839	Sept. 14			130	Drake, Dis. Int. Valley of N. A., p. 191.
				1837	Sept. 20	1837	Nov. —	350	Drake, Dis. Int. Valley of N. A., p. 220.
				1838					Do.
				1839	Aug. 11	1839	Oct. 20	650	Drake, Dis. Int. Valley of N. A., p. 191.
				1841				60	Drake and Brown, Quarantine, 1872.
				1842	Aug. 50				J. H. Lewis, N. O. M. J., 1844, p. 31.
				1843	Aug. 18	1843	Nov. 5	940	Drake, p. 222, and Brown, Quarantine, 1872.
				1847					Do.
								76	Drake, Dis. Int. Valley of N. A., p. 191.
									Brown, Quarantine, and Fenner's South Med. Reports, vol. 2, p. 304.
				1848				75	Fenner, South Med. Reports, vol. 2, p. 304.

Arkansas	Montgomery, Montgomery Co.	On Alabama River.....	1849	.....	.....	.....	59	Do	Brown, Quarantine, 1873, p. 43.
			1851	.....	.....	.....	115	Do	N. O. M. & S. J., 1854, p. 571.
			1853	.....	.....	.....	.....	Do	Ed. Nash, J. M. & S., 1854, p. 345.
			1854	.....	.....	.....	.....	Do	Ed. Va. M. J., 1858, p. 517.
			1858	.....	.....	.....	.....	Do	Brown, Quarantine, 1873, p. 44.
			1867	.....	.....	.....	.....	Do	G. A. Ketchum, Trans. A. M. S., 1871, p. 268.
			1870	.....	.....	.....	.....	Do	O. L. Crampton, Report Superintending Surgeon, (J. M. Woodworth.) U. S. Marine Hospital Service, 1871.
			1873	.....	.....	.....	.....	Do	R. F. Michel, Charleston Med. Journal and Review, vol. 1, No. 4, 1874, p. 303.
			1883	.....	.....	.....	.....	Do	R. F. Michel, Charleston Med. Journal and Review, vol. 1, No. 4, 1874, p. 303.
			1884	.....	.....	.....	.....	Do	R. F. Michel, Charleston Med. Journal and Review, vol. 1, No. 4, 1874, p. 303.
Connecticut	Pollard, Escambia Co.	On Alabama River.....	1854	.....	.....	.....	45	Do	J. Jones, B. M. & S. J., 1873, p. 543.
			1855	.....	.....	.....	30	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	102	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	.....	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	.....	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	.....	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	.....	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	.....	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	.....	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
			1873	.....	.....	.....	.....	Do	J. C. Marks, N. O. M. & S. J., 1854, p. 88.
Delaware	New London, New London Co.	On Thames River, 3 miles from ocean.	1849	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1851	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1853	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1854	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1855	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1856	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1857	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1858	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1859	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1860	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
Florida	Apalachicola, Franklin Co.	On Apalachicola Bay	1849	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1851	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1853	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1854	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1855	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1856	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1857	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1858	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1859	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.
			1860	.....	.....	.....	.....	Do	N. Y. M. & Ph. J., 1822, p. 153.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &c.—Continued.

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Florida	Milton, Santa Rosa Co Pensacola Bay. On Pensacola Bay	On Blackwater River, near Pensacola Bay. On Pensacola Bay	20 15	1829	June —	.....	.....	96	C. C. Dupré, Am. J. of Med. Sci., 1841, p. 380.
				1841	Aug. —	.....	.....	112	Do.
				1853	Aug. —	1854	Aug. —	.....	Army Medical Statistics, p. 323.
				1854	.....	.....	.....	.....	Ed. N. O. M. & S. J., 1854, p. 423.
				1862	June 20	.....	Oct. —	71	Ed. M. and S. Reporter, 1862, p. 513.
				1864	.....	.....	.....	.....	E. B. Hunt, Med. Reporter, 1864, p. 340.
				1865	.....	.....	.....	.....	Brown, Quarantine, p. 40.
				1867	.....	.....	.....	.....	Surgeon-General's Office, Circular No. 1, 1868, p. 152.
				1869	.....	.....	.....	.....	Brown, Quarantine, p. 41.
				1869	.....	.....	.....	.....	Brown, Quarantine, p. 38.
				1853	.....	.....	.....	.....	Do.
				1855	.....	.....	.....	.....	P. S. Townsend, N. Y. M., and Ph. J., 1853, p. 315.
				1764	.....	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 190.
				1765	.....	.....	.....	125	Do.
				1811	.....	.....	.....	.....	Do.
				1822	Aug. 12	.....	Oct. 10	357	Drake, Dis. Int. Valley, of N. A., p. 229.
				1825	.....	.....	.....	.....	Brown, Quarantine, p. 36.
				1827	.....	.....	.....	.....	Med. Statistics, United States Army, p. 58.
				1834	Aug. 23	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 232.
				1839	.....	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 233.
				1841	.....	.....	.....	.....	Do.
				1842	.....	.....	.....	.....	S. C. Larrison, Maryland M. & S. J., 1843, p. 393.
				1843	.....	.....	.....	.....	Dr. Wedderburn, Report of San. Com., p. 125.
				1844	.....	.....	.....	.....	Do.
				1845	.....	.....	.....	.....	Brown, Quarantine, p. 36.
				1846	.....	.....	.....	.....	Do.
				1847	.....	.....	.....	.....	Do.
				1848	.....	.....	.....	.....	Dr. Wedderburn, Report of San. Com., p. 125.
				1853	.....	.....	.....	.....	Dr. Wedderburn, Report of San. Com. of N. O., p. 125.
				1854	.....	.....	.....	.....	E. D. Finner, His. of Yellow Fever, N. O., 1855, p. 49.
				1858	.....	.....	.....	.....	R. B. Hanges, N. O. M. N., 1859, p. 747.
				1863	Aug. 95	.....	.....	.....	Do.
				1867	July 24	.....	.....	34	B. F. Gibbs, A. J. M. Sc., 1866, p. 340.
				1873	Aug. 6	.....	.....	61	M. Reporter, 1868, p. 227.
St. Augustine, St. John's Co.	On Matanzas Sound, two miles from the sea.		10	1897	.....	.....	.....	.....	R. F. Michol, Charleston M. J. and R., 1874, vol. 1, No. 4, p. 280.
				1821	Aug. —	.....	.....	.....	Brown, Quarantine, p. 32.
				1838	.....	.....	.....	140	J. Goddard, M. Reporter, 1856, p. 564.
				1839	Aug. 15	.....	.....	.....	C. C. Dupré, A. J. Med. Sci., 1841, p. 384.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1653, &c.—Continued.

Name.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Louisiana.....									
	Bay of Saint Louis.....	Mouth of the Mississippi River.	10	1830	Aug. —	.....	.....	.....	A. P. Merrill, N. O. M. and S. J., 1851, p. 1. N. O. M. and S. J., 1850, p. 79.
	Bayou Sara, West Feliciana Parish.	On Mississippi River....	75	1853	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., 1848, p. 19. P. C. Gallard, Ch. M. J. and Rev., 1859, p. 481. Brown, Quarantine.
	Burat Settlement, (coast below New Orleans)	On Mississippi River.....	10	1853	Sept. 22	.....	.....	.....	
	Carrollton, Jefferson Parish.	On Mississippi River.....	15	1847	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., 1848, p. 192. D. Warren Brickett, N. O. M. N., 1855, p. 107. W. B. Wood, N. O. M. N., 1856, p. 483. Do.
	Centreville, Saint Mary's Parish.	On Teche River 60 miles from the Gulf of Mexico.	20	1853	May 18	.....	.....	.....	
	Clinton, East Feliciana Parish.	32 miles N. of Baton Rouge..	85	1853	Sept. —	.....	.....	.....	
	Cloutierville, Natchitoches Parish.	On Old River, branch of Red River.	175	1853	Sept. 1	.....	.....	75	B. Dowler, Tableau of Yellow Fever, 1853, p. 28.
	Covington, Saint Tammany Parish.	45 miles north of New Orleans.	25	1854	Aug. 14	.....	Dec. 14	.....	Brown, Quarantine. Do.
	Donaldsonville, Ascension Parish.	On Mississippi River.....	30	1837	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., 1848, p. 192.
	Franklin, Saint Mary's Parish.	On Teche River, 65 miles from the Gulf of Mexico.	15	1853	Oct. 19	.....	.....	.....	
	Gretton, Iberville Parish.	On Mississippi River.....	18	1854	.....	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 247. J. W. Lyman, N. O. M. and S. J., 1854, p. 670. W. B. Wood, N. O. M. N., 1856, p. 483. N. O. M. J., 1859, p. 506.
	Iberville, Iberville Parish.	On Mississippi River.....	15	1854	Oct. 7	.....	.....	.....	Brown, Quarantine.
	Jennierett's, Parish of Saint Mary.	Settlement on coast below New Orleans.	10	1854	Sept. 12	.....	.....	.....	Brown, Quarantine.
	Lake Providence, Carroll Parish.	Near New Orleans On Mississippi River.....	12	1847	June 22	.....	.....	.....	N. O. M. and S. J., 1848, p. 336. J. L. Ridell, N. O. M. and S. J., 1854, p. 813.
	Mandeville, Saint Tammany Parish.	On Lake Pontchartrain.....	15	1847	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., p. 192.
	McDonoughville	.....	.....	1853	.....	.....	.....	.....	N. O. M. J., 1859, p. 506.
	Natchitoches.....	On Red River.....	180	1839	.....	.....	.....	.....	Drake, Dis. Int. Valley of N. A., p. 191. Drake, Dis. Int. Valley of N. A., p. 341.
	New Iberia, Saint Martin's Parish.	Southern part of Louisiana..	20	1867	.....	.....	.....	.....	Report New Orleans Board of Health, 1873, p. 68. Brown, Quarantine, p. 38.

New Orleans.....	On Mississippi River.....	10	1769	.....	.....	.....	.....	.....	S. Chaillé, Va. M. J., 1858, p. 498.
			1791	.....	.....	.....	.....	.....	Do.
			1793	.....	.....	.....	.....	.....	Trans. A. M. A., vol. 2, p. 684.
			1794	.....	.....	.....	.....	.....	Stethoscope, Vol. 3, No. 11, 1853, p. 665.
			1795	.....	.....	.....	.....	.....	Do.
			1796	.....	.....	.....	.....	.....	Do.
			1797	.....	.....	.....	.....	.....	Do.
			1799	.....	.....	.....	.....	.....	S. Chaillé, Va. M. J., 1858, p. 498.
			1800	.....	.....	.....	.....	.....	Do.
			1801	.....	.....	.....	.....	.....	Do.
			1802	.....	.....	.....	.....	.....	Dowling, Tableau of Yellow Fever, 1853, p. 12.
			1804	.....	.....	.....	.....	.....	Chaillé, Va. M. J., 1858, p. 498.
			1809	.....	.....	.....	.....	.....	Do.
			1811	.....	.....	.....	.....	.....	Do.
			1812	.....	.....	.....	.....	.....	Do.
			1817	.....	.....	.....	.....	.....	Do.
			1818	.....	.....	.....	.....	.....	S. Chaillé, Va. Med. J., 1858, p. 498.
			1819	.....	.....	.....	.....	.....	M. M. Dowling, N. O. M. N., 1850, p. 308.
			1830	.....	.....	.....	.....	.....	S. Chaillé, Va. Med. J., 1858, p. 498.
			1832	.....	.....	.....	.....	.....	Do.
			1833	.....	.....	.....	.....	.....	Trans. A. M. A., 1851, p. 207, and Drake, p. 197.
			1834	.....	.....	.....	.....	.....	Do.
			1835	.....	.....	.....	.....	.....	Do.
			1836	.....	.....	.....	.....	.....	Do.
			1837	.....	.....	.....	.....	.....	Do.
			1838	.....	.....	.....	.....	.....	Do.
			1839	.....	.....	.....	.....	.....	Do.
			1840	.....	.....	.....	.....	.....	Do.
			1841	.....	.....	.....	.....	.....	Do.
			1842	.....	.....	.....	.....	.....	Do.
			1843	.....	.....	.....	.....	.....	Do.
			1844	.....	.....	.....	.....	.....	Do.
			1845	.....	.....	.....	.....	.....	Do.
			1846	.....	.....	.....	.....	.....	Chaillé, Va. Med. J., 1856, p. 498.
			1847	.....	.....	.....	.....	.....	Do.
			1848	.....	.....	.....	.....	.....	Do.
			1849	.....	.....	.....	.....	.....	Do.
			1850	.....	.....	.....	.....	.....	Do.
			1851	.....	.....	.....	.....	.....	Do.
			1852	.....	.....	.....	.....	.....	Do.
			1853	.....	.....	.....	.....	.....	Do.
			1854	.....	.....	.....	.....	.....	Do.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1663, &c.—Continued.

e.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Louisiana.	New Orleans.	On Mississippi River.	10	1855	June	.....	Dec.	2, 670	Chaillé, Va. Med. J., 1856, p. 499.
				1850	Aug.	.....	Nov.	174	S. Chaillé, Va. M. J., 1856, p. 499.
				1857	June	.....	.....	159	Do.
				1858	June	.....	Oct. 10	3, 859	Ed. Med. Rep., 1858, vol. 1, No. 4, p. 72.
				1862	.....	.....	.....	.....	Fenner, S. J. of M. S., May, 1866.
				1863	.....	.....	.....	.....	Chaillé, p. 8.
				1864	.....	.....	.....	.....	Harris, Sanitary Commission, p. 264.
				1867	June 10	.....	Dec. 22	3, 093	Ed. N. O. M. J., 1868, p. 188.
				1870	May 10	.....	Dec.	.....	J. C. Fox, N. O. M. J., vol. 1, No. 2, 1873.
				1871	Aug. 4	.....	Oct.	557	Report N. O. Board of Health, 1871.
				1872	Aug. 29	.....	Nov. 30	40	Report N. O. Board of Health, 1872, p. 17.
				1873	July 4	.....	Nov. 18	225	Orasmus Smith, Report Supervising Surgeon, U. S. Marine Hospital Service, 1873.
	New Orleans, (small settlement on coast below.) Opelousas, Saint Landry Parish.	On Mississippi River. Seven miles from the head of navigation on the Courta-bleau Bayou.	10	1854	.....	.....	.....	.....	D. R. Fox, N. O. M. N., 1856, p. 409.
				1855	.....	.....	.....	.....	Do.
				1859	.....	.....	.....	.....	Carpenter, Sketches, p. 26.
				1837	Oct. 30	.....	Nov.	.....	T. A. Cooke, N. O. M. J., 1846, p. 27; Drake, p. 243.
				1839	Aug.	.....	Nov.	.....	Do.
				1842	.....	.....	.....	.....	Do.
				1853	.....	.....	.....	.....	T. A. Cooke, South Med. Rec., vol. 34, 1873, No. 4, p. 199.
				1867	.....	.....	.....	.....	Do.
				1853	Aug. 8	.....	Dec.	45	J. S. Grant, M. D., Report San. Com., 1853, p. 43.
				1854	Sept.	.....	.....	.....	W. B. Wood, N. O. M. N., 1856, p. 483.
				1855	Sept.	.....	.....	.....	Do.
				1837	.....	.....	.....	.....	Drake, Dis. Int. Valley, N. A., p. 191.
	Plaquemine.	On Mississippi River.	6	1839	.....	.....	.....	.....	Do.
				1847	.....	.....	.....	.....	N. O. M. and S. J., 1848, p. 536.
				1853	Sept.	.....	Oct.	.....	J. B. Hacker, N. O. M. and S. J., 1854, p. 668.
				1856	.....	.....	.....	.....	S. Chaillé, Va. M. J., 1853, p. 491.
				1854	Oct.	.....	.....	.....	Brown, Quarantine.
				.....	.....	.....	.....	.....	T. A. Cooke, South Med. Rec., vol. 3, 1873, No. 4, p. 193.
				1870	.....	.....	.....	.....	Drake Dis. Int. Valley, N. A., p. 252.
				1839	Oct. 13	.....	.....	.....	Do.
				1841	.....	.....	.....	.....	Drake, Dis. Int. Valley, N. A., p. 191.
				1843	.....	.....	.....	.....	Drake Dis. Int. Valley, N. A., p. 253.
				1811	.....	.....	.....	.....	Do.
				1817	.....	.....	.....	.....	Do.
	Point a la Hache, coast below New Orleans.	On Mississippi River.	8	.....	.....	.....	.....	.....	.....
									
									
									
	Port Barre.	On Mississippi River.	.....	.....	.....	.....	.....	.....	.....
									
									
									
	Port Hudson, East Feliciana Parish.	On Mississippi River.	75						
									
									
									
	Saint Francisville West. Feliciana Parish.	On Mississippi River.	83						
									
									
									

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Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &c.—Continued.

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUBPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Massachusetts	Boston, Suffolk Co.	Head of Massachusetts Bay.	45	1798	.....	.....	.....	200	J. H. Griscom, N. Y. J. M., 1856, p. 369.
				1800	.....	.....	.....	.....	S. Emilen, N. A. M. and S. J., 1824, p. 321.
				1802	.....	.....	.....	60	J. Gotham, Med. Rep., 1856, p. 563.
				1805	.....	.....	.....	.....	J. H. Griscom, Visitations of Yellow Fever, p. 13.
				1819	.....	.....	.....	.....	S. Emilen, N. A. M. and S. J., 1828, p. 321.
				1858	.....	.....	.....	.....	F. E. Oliver, B. M. and S. J., 1858, p. 140.
				1744	.....	.....	.....	15	<i>measles not yellow fever - see N. Webster I p 411 (not confirmed)</i>
				1763	.....	.....	.....	250	Med. Rep., 1853, p. 107.
				1800	.....	.....	.....	.....	Brown, Quarantine, p. 9.
				1801	.....	.....	.....	.....	B. Dowlet, Tableau of Yellow Fever, 1853, p. 11.
Mississippi				1796	.....	.....	.....	.....	J. H. Griscom, N. Y. J. M., 1856, p. 369.
				1798	.....	.....	.....	.....	J. Gotham, Jr., Med. Rep., 1856, p. 563.
				1702	.....	.....	.....	.....	Drake Dis. Int. Valley, N. A., 191.
				1839	.....	.....	.....	.....	Do.
				1847	.....	.....	.....	.....	E. D. Fenner, N. O. M. and S. J., 1848, p. 192.
				1853	.....	.....	.....	.....	J. C. Nott, N. O. M. and S. J., 1854, p. 571.
				1858	.....	.....	.....	.....	S. Chaillé, Va. M. J., 1858, p. 401.
				1853	Sept. 15	.....	.....	.....	Report Sanitary Commission, 1853, p. 77.
	Brandon, Rankin Co.	Inland, 12 miles from Jackson, on branch of Pearl River.	300	1854	Sept. 23	Nov. 18	.....	.....	Trans. A. M. A., 22, p. 201.
				1855	.....	.....	.....	.....	A. P. Jones, N. O. M. N., 1856, p. 182.
				1853	Aug. 28	Oct. —	.....	13	J. S. Beazley, N. O. M. N., 1856, p. 151.
				1855	Aug. 23	.....	.....	.....	E. McAllister, N. O. M. and S. J., 1854, p. 675.
				1853	.....	.....	.....	9	Trans. A. M. A., 1854, p. 525.
				1853	.....	.....	.....	.....	S. C. Farnas Stethoscope, 1855, p. 584.
				1854	.....	.....	.....	.....	Do.
				1854	Sept. —	Nov. 9	.....	9	Drake, Dis. Int. Valley, N. A., p. 363.
				1817	.....	.....	.....	180	Brown, Quarantine, p. 59.
				1819	Sept. —	Dec. —	.....	312	H. Tooley, History Yellow Fever, 1853, p. 25.
				1823	Aug. 10	Oct. 18	.....	150	Drake, Dis. Int. Valley, N. A., p. 369.
				1835	Aug. 20	Nov. 1	.....	.....	A. P. Merrill, Galv. M. J., 1867, p. 861.
				1837	.....	.....	.....	90	Drake, Dis. Int. Valley, N. A., p. 191.
				1839	Sept. 1	Nov. —	.....	280	Do.
				1837	Sept. 8	Nov. 25	.....	235	Do.
				1839	Sept. —	Nov. —	.....	.....	Cartwright, N. O. M. and S. J., 1848, p. 225.
				1844	.....	.....	.....	.....	C. H. Stine, N. O. M. and S. J., 1849, p. 540.
				1846	June	.....	.....	.....	B. Dowlet, Tableau of Yellow Fever, 1853, p. 26.
				1853	July 17	.....	.....	.....	

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &c.—Continued.

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COMMENCEMENT.		DATE OF SUSPENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
New York.	Brooklyn, Kings Co.....	A seaport.....	40	1823	July 14				Carpenter, Sketches of Yellow Fever. 3d Nat'l Quarantine and Sanitary Convention, p. 41.
	Catskill, Greene Co.....	On Hudson River.....	50	1856					
	Governor's Island.....	New York Harbor.....	25	1794	Aug. 10		Sept. 28	8	B. W. Dwight, M. Reps. 3d Nat'l Quarantine and Sanitary Convention, p. 41.
	Gowanus, Kings Co.....	On Gowanus Cove, near New York Harbor.....	15	1803	July 29		Oct. 26	49	Report Board of Health, New York, 1870, p. 29. Va. M. J., 1856, p. 328.
	Greenfield, Saratoga Co....	Far inland.....	150	1856	Sept. —				J. G. Scott, M. Repos., 1807, p. 291.
	Huntington, Suffolk Co....	Huntington Bay.....	20	1795					Dr. D. Hensack, M. and Philos. Reg., 1813, p. 191.
	New York, New York Co.	A seaport.....	35	1798					Do.
				1803			Sept. 30	570	J. H. Griscom, M. Rep., 1856, p. 561. — <i>See 3d. Month 1858.</i>
				1732					J. H. Griscom, Visitations of Yellow Fever, p. 2.
				1741					J. H. Griscom, Visitations of Yellow Fever, p. 3.
				1743					Ed. N. Y. J. M., 1856, p. 278.
				1745					Do.
				1747					J. H. Griscom, Visitations of Yellow Fever, p. 3.
				1748					Do.
				1762					J. H. Griscom, Visitations of Yellow Fever, p. 3.
				1790					Do.
				1791	Aug. —		Oct. 15		J. H. Griscom, Visitations of Yellow Fever, p. 3.
				1792					Do.
			1793					Do.	
			1794					J. H. Griscom, Visitations of Yellow Fever, p. 4.	
			1795	July 19				Daily Shreveport Times, vol. 2, No. 811, 1873.	
			1796					Do.	
			1797					Do.	
			1798	Aug. —				W. Hume, Ch. M. J. and Rev., 1860, p. 24.	
			1799	July —				Ed. N. Y. J. M., 1856, p. 278, and Brown, Quarantine, 6.	
			1800	Sept. —				Ed. N. Y. J. M., 1856, p. 278.	
			1801	Sept. —				Ed. N. Y. J. M., 1856, p. 278.	
			1802					Do.	
			1803	July 18				Bayley's Account of Epidemic Fever, 1795.	
			1805	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
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			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
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			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
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			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
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			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
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			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
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			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
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			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —				Ed. N. Y. J. M., 1856, p. 278.	
			1806	June —					

(p 21)
1858. 17
28

North Carolina ..	Queensborough, Orange Co. ....	.....	.....	.....	.....	1807	1807	3	J. H. Grignon, M. Rep., 1856, p. 561
	Red Hook, Dutchess Co. ....	.....	.....	.....	.....	1808	1808	*1	Ed. N. Y. J. M., 1856, p. 284.
	Stapleton, Staten Island, Richmond Co. ....	.....	.....	.....	.....	1809	1809	2	Do.
	do .....	.....	.....	.....	.....	1810	1810	*1	Do.
	do .....	.....	.....	.....	.....	1811	1811	7	Do.
	do .....	.....	.....	.....	.....	1812	1812	*0	Do.
	do .....	.....	.....	.....	.....	1813	1813	*4	Ed. N. Y. J. M., 1856, p. 281
	do .....	.....	.....	.....	.....	1814	1814	*4	Do.
	do .....	.....	.....	.....	.....	1815	1815	37	Do.
	do .....	.....	.....	.....	.....	1816	1816	*2	Do.
	do .....	.....	.....	.....	.....	1817	1817	*10	Do.
	do .....	.....	.....	.....	.....	1818	1818	23	Do.
	do .....	.....	.....	.....	.....	1819	1819	*8	Do.
	do .....	.....	.....	.....	.....	1820	1820	*3	Do.
	do .....	.....	.....	.....	.....	1821	1821	*1	Do.
	do .....	.....	.....	.....	.....	1822	1822	*2	Do.
	do .....	.....	.....	.....	.....	1823	1823	*0	Do.
	do .....	.....	.....	.....	.....	1824	1824	*8	Do.
	do .....	.....	.....	.....	.....	1825	1825	*1	Do.
	do .....	.....	.....	.....	.....	1826	1826	*2	Do.
	do .....	.....	.....	.....	.....	1827	1827	*4	Do.
	do .....	.....	.....	.....	.....	1828	1828	*0	Do.
	do .....	.....	.....	.....	.....	1829	1829	*0	Do.
	do .....	.....	.....	.....	.....	1830	1830	*1	Do.
	do .....	.....	.....	.....	.....	1831	1831	*1	Do.
	do .....	.....	.....	.....	.....	1832	1832	*2	Do.
	do .....	.....	.....	.....	.....	1833	1833	*1	Do.
	do .....	.....	.....	.....	.....	1834	1834	*2	Do.
	do .....	.....	.....	.....	.....	1835	1835	*2	Do.
	do .....	.....	.....	.....	.....	1836	1836	*8	Ed. N. Y. J. M., 1856, p. 284.
	do .....	.....	.....	.....	.....	1837	1837	*4	Do.
	do .....	.....	.....	.....	.....	1838	1838	*5	Do.
	do .....	.....	.....	.....	.....	1839	1839	*2	Do.
	do .....	.....	.....	.....	.....	1840	1840	*0	Do.
	do .....	.....	.....	.....	.....	1841	1841	*0	Do.
	do .....	.....	.....	.....	.....	1842	1842	*0	Do.
	do .....	.....	.....	.....	.....	1843	1843	*19	Do. and Trans. A. M. A., vol. 7, p. 162.
	do .....	.....	.....	.....	.....	1844	1844	*1	Ed. N. Y. J. M., 1856, p. 284.
	do .....	.....	.....	.....	.....	1845	1845	*14	Do.
	do .....	.....	.....	.....	.....	1846	1846	*30	Do.
	do .....	.....	.....	.....	.....	1847	1847	*5	Do.
	do .....	.....	.....	.....	.....	1848	1848	18	B. M. and S. J., vol. 80, No. 23, p. 587.
	do .....	.....	.....	.....	.....	1849	1849	30	Heber Smith, Report Sup. Surg. U. S. M. H. S., 1873.
	do .....	.....	.....	.....	.....	1850	1850	30	J. G. Scott, M. Repos., 1807, p. 242.
	do .....	.....	.....	.....	.....	1851	1851	20	Va. M. J., 1856, p. 328.
	do .....	.....	.....	.....	.....	1852	1852	8	A. B. Whiting, Ch. M. J. and Rev., 1848, p. 613.
	do .....	.....	.....	.....	.....	1853	1853	Nov. 47	Official Report, U. P. Rice, 1864.
	do .....	.....	.....	.....	.....	1854	1854	68	Do.
	do .....	.....	.....	.....	.....	1855	1855	18	Dr. D. Hosack, M. and Philos. Reg., 1813, p. 191.
	do .....	.....	.....	.....	.....	1856	1856	25	J. G. Scott, M. Repos., 1807, p. 242.
	do .....	.....	.....	.....	.....	1857	1857	20	Va. M. J., 1856, p. 328.
	do .....	.....	.....	.....	.....	1858	1858	8	A. B. Whiting, Ch. M. J. and Rev., 1848, p. 613.
	do .....	.....	.....	.....	.....	1859	1859	Nov. 47	Official Report, U. P. Rice, 1864.
	do .....	.....	.....	.....	.....	1860	1860	68	Do.

* Star indicates the reports of deaths at the Marine Hospital, N. Y. for the respective years. Ed. N. Y. J. M., 1856, p. 284.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1663, &c.—Continued.

State.	Location.	Situation.	Elevation, in feet, above sea-level.		DATE OF COM- MENCEMENT.		DATE OF SUS- PENSION.		Mortality.	Authority.
			Year.	Month.	Year.	Month.				
North Carolina	New Berne, Craven Co . . .	On Neuse River	20	1799	Sept. —	Nov. —	700	1862	M. Repas, 1800, p. 197. Report Medical Inspector U. S. A., Dec. 31, 1864. W. T. Wragg, N. Y. M. J., vol. ix, No. 5, 1869, p. 40.	
	Smithville, Brunswick Co. .	On Cape Fear River, near the ocean.	15	1862	Sept. —	Nov. —	700	1862	M. Repas, 1800, p. 197.	
	Washington, Beaufort Co. .	On Tar River, 40 miles from Pamlico Sound.	35	1800	Sept. —	Nov. —	700	1862	J. H. Griscorn, N. Y. J. M. p. 369.	
	Wilmington, New Han- over Co.	On Cape Fear River, 34 miles from the sea.	25	1796	Sept. —	Nov. —	700	1862	M. Repas, 1800, p. 197.	
				1800	Aug. 9	Nov. 17	446	1862	J. Hill, A. M. Rec., 1822, p. 86, and Brown, Quar- antine, p. 18.	
Ohio	Cincinnati, Hamilton Co. . .	On Ohio River	550	1871	Aug. 6	Nov. 17	446	1862	W. T. Wragg, N. Y. J. M., 1869, p. 478, and 1869, p. 225. Med. and Surg. Rep. vol. 25, No. 16, p. 354.	
	Gallipolis, Gallia Co.	do	520	1796	Aug. 6	Nov. 17	446	1862	Health Officer's Report.	
Pennsylvania	Bald Eagle Valley, Clin- ton Co.	Center of Pennsylvania, on West Branch of Susque- hanna River.	550	1799	Aug. 6	Nov. 17	446	1862	A. Elliott, M. Repas, 1801, p. 74.	
	Chester, Delaware Co.	On Delaware River	25	1798	Aug. 6	Nov. 17	446	1862	W. Harris, M. Repas, 1801, p. 75.	
	Chester County	do	15	1805	Aug. 6	Nov. 17	446	1862	J. H. Griscorn, Visitation of Yellow Fever, p. 9. Dowler Tables of Rev., p. 13.	
	Kensington, Philadelphia Co.	do	15	1793	Aug. 6	Nov. 17	446	1862	La Roche, Yellow Fever, p. 68.	
	Lisburn, Cumberland Co. . .	On Yellow Breeches Creek, 9 miles from Harrisburgh.	250	1803	Aug. —	Nov. —	50	1798	W. Baldwin, Med. Mus., 1805, p. 601.	
	Marcus Hook, Delaware Co.	On Delaware River	15	1798	Aug. —	Nov. —	50	1798	J. Rush, Med. Mus., 1805, p. 62.	
	Nittany Centre Co.	Far inland	550	1799	Aug. 1	Nov. —	920	1799	W. Harris, M. Repas, 1800, p. 75.	
	Philadelphia, Philadelpha Co.	On Delaware River	35	1695	Aug. 1	Nov. —	920	1799	J. N. Schofield, Va. M. J., 1857, p. 358.	
				1699	Aug. 1	Nov. —	920	1799	R. La Roche, Ch. M. J. and Rev., 1852, p. 58.	
				1732	Aug. 1	Nov. —	920	1799	Daily Shreveport Times, vol. 2, No. 311, 1873.	
			1741	Aug. 1	Nov. —	920	1799	J. H. Griscorn, Visitation of Yellow Fever, p. 3.		
			1742	Aug. 1	Nov. —	920	1799	B. Dowler, Tableau of Yellow Fever, p. 3.		
			1743	Aug. 1	Nov. —	920	1799	Do.		
			1744	Aug. 1	Nov. —	920	1799	R. La Roche, Ch. M. J. and Rev., 1852, p. 458.		
			1747	Aug. 1	Nov. —	920	1799	Do.		
			1762	Aug. —	Nov. —	920	1799	J. H. Griscorn, Visitation of Yellow Fever, p. 5.		
			1791	Aug. 15	Dec. —	4,041	1793	Carey, Account of the Malignant Fever, p. 116.		
			1793	Aug. 15	Dec. —	4,041	1793			

Rhode Island	Southwark, Philadelphia Co. Block Island Bristol, Bristol Co.	On Delaware River In Long Island Sound On Narragansett Bay	90 20 20	1794	Aug. 1	Oct. 15	1,300	La Roche, Board of Health Rep., Phila., 1870, p. 53.
				1796	Aug. 1	Nov. 1	3,500	J.H. Griscom, N.Y.J.M., 1856, p. 369, and 1856, p. 368.
				1798	Aug. 1	Nov. 1	1,000	Do.
				1799	Jul	Nov. 1	1,000	R. La Roche, Ch. M. J. and Rev., 1852, p. 458.
				1800	Aug.	Nov. 1	1,000	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
				1801	Aug.	Nov. 1	307	Do.
				1802	Aug.	Nov. 1	195	Do.
				1803	Aug.	Nov. 1	3-400	Do.
				1805	Aug.	Nov. 1	3	Do.
				1807	Aug.	Nov. 1	3	Do.
South Carolina	Newport, Newport Co. Providence, Providence Co.	A port on Narragansett Bay do	20 35	1796	Aug.	Nov. 1	307	B. Dowler, Tableau of Yellow Fever, 1853, p. 14.
				1802	Aug.	Nov. 1	195	Do.
				1803	Aug.	Nov. 1	3-400	Do.
				1805	Aug.	Nov. 1	3	Do.
				1807	Aug.	Nov. 1	3	Do.
				1809	Aug.	Nov. 1	3	Do.
				1810	Aug.	Nov. 1	3	Do.
				1811	Aug.	Nov. 1	5	Do.
				1813	Aug.	Nov. 1	6	Do.
				1814	Aug.	Nov. 1	7	Do.
South Carolina	Westerly, Washington Co. Charleston, Charleston district	On Pawcatuck River A seaport	25 10	1794	Aug. 13	Aug. —	45	S. Emilen, N. A. M. and S. J., 1838, p. 321.
				1800	Aug. 13	Aug. —	45	S. Jackson, A. M. Rec., 1821, p. 680.
				1805	July 19	Aug. —	—	W. Jewell, N. Y. J. M., 1854, pp. 149, 246, and Brown, Quarantine, p. 10.
				1805	July 19	Aug. —	—	Ed. Nash, J. M. and Surg., 1854, p. 345.
				1805	July 19	Aug. —	—	La Roche, Yellow Fev., 1870, pp. 20, 26.
				1805	July 19	Aug. —	—	La Roche, Yellow Fever, p. 68.
				1805	July 19	Aug. —	—	Aaron C. Willey, M. Repos., 1803, p. 123.
				1805	July 19	Aug. —	—	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
				1805	July 19	Aug. —	—	Do.
				1805	July 19	Aug. —	—	Do.
South Carolina	Charleston, Charleston district	A seaport	25 10	1794	Aug. 13	Aug. —	45	B. Dowler, Tableau of Yellow Fever, 1853, p. 7.
				1800	Aug. 13	Aug. —	45	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
				1805	July 19	Aug. —	—	W. Hume, Ch. M. J. and Rev., 1860, p. 234.
				1805	July 19	Aug. —	—	W. Hume, Ch. M. J. and Rev., 1860, p. 24.
				1805	July 19	Aug. —	—	P. Bowen, Yellow Fever in Providence in 1805.
				1805	July 19	Aug. —	—	Do.
				1805	July 19	Aug. —	—	Do.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Do.
				1805	July 19	Aug. —	—	Do.
South Carolina	Charleston, Charleston district	A seaport	25 10	1794	Aug. 13	Aug. —	45	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1800	Aug. 13	Aug. —	45	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1805	July 19	Aug. —	—	Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &c.—Continued.

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COM- MENCEMENT.		DATE OF SUS- PENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
South Carolina...	Charleston, Charleston dis- trict.	A seaport.....	10	1768					M. M. Dowler, N. O. M. J., 1859, p. 305.
				1770					T. Harris, Phil. M. and Ph. J., 1805, p. 21.
				1792					W. Hume, Ch. M. J. and Rev., 1852, p. 145, and Si- mons' Trans. Med. Ass'n S. C., 1851, p. 38.
				1794					Do.
				1795					Do.
				1796					Do.
				1797					Do.
				1798					T. Y. Simons, Ch. M. J., and Rev., 1851, p. 779.
				1799				339	W. Hume, Ch. M. J., and Rev., 1854, p. 145, and Si- mons' Trans. Med. Soc. S. C., 1851, p. 38.
				1800				184	Do.
				1802				96	Do.
				1803					Simons' Trans. S. C. Med. Ass'n, 1851, p. 37.
				1804				148	Do.
				1805					Do.
				1807					Do.
				1807				162	Simons' Trans. S. C. Med. Ass'n, p. 38.
				1819					W. Hume, Ch. M. J. and Rev., 1854, p. 145.
				1817	July		Nov.	279	Dowler, N. O. M. J., 1859, p. 397.
				1819	Aug.		Oct.	177	Do.
				1822	June		Aug.	9	Do.
				1824	Aug.		Nov.	235	Do.
				1825	Aug.		Sept.	9	Do.
				1827	Aug.		Nov.	64	Do.
				1828	Aug.		Sept.	26	Do.
				1830	Sept.		Nov.	30	Do.
				1834	Aug.		Oct.	40	Do.
				1835	Aug.		Sept.	25	Do.
				1838	Aug.		Nov.	351	Do.
				1839	June		Oct.	134	Do.
				1840	Aug.		Oct.	22	Do.
				*1841					Simons' Trans. S. C. Med. Ass'n, p. 59.
				1843			Nov.	1	Dowler, N. O. M. J., p. 597.
				1849	Aug.		Nov.	125	Do.
				1852	Aug.		Nov.	310	Do.
				1854	Aug.		Nov.	627	Do.
				1856	Aug.		Nov.	211	Do.
				1857	Sept.		Nov.	13	Do.

Tennessee	Beaufort district.	1864	July 27	Dec. —	717	Do. Brown, Quarantine, p. 29.
	Columbia, Richland dist.	10 1871	July 19	Nov. —	213	Trans. A. M. A., vol. 23, p. 292.
	Fort Moultrie.	175 1874	Aug. 6	Nov. 21	7	Trans. A. M. A., vol. 23, p. 331.
	Georgetown district.	15 1882	Aug. 15	Oct. 28	—	Ed. Nash, J. M. and S., 1854, p. 345.
	Hilton Head	1858	Aug. 30	Oct. 28	—	M. M. Dowler, N. O. M. J., 1854, p. 305.
	Mount Pleasant, Charles- ton Co.	10 1854	Aug. 30	Oct. 28	—	Ch. M. J. and Rev., 1858, p. 514.
		10 1862	Sept. 8	Oct. 25	—	W. C. Miller, Ch. M. J. and Rev., 1856, p. 19.
		1817	Sept. 8	Oct. 25	—	Brown, Quarantine, p. 30.
		1848	Do.	Do.	—	R. A. Kinloch, Ch. M. J. and Rev., 1852, p. 793.
		1852	Do.	Do.	—	Do.
Texas	Memphis, Shelby Co.	260 1857	Sept. 14	Nov. 9	1244	Do. W. J. Tuck, N. O. M. and S. J., 1854, p. 662.
		1853	Sept. 14	Nov. 9	—	A. P. Merrill, Galv. M. J., 1867, p. 561.
		1860	Sept. 14	Nov. 9	—	Ed. Amer. Pract., vol. 18, 1874, p. 313.
		1873	Sept. 14	Nov. 9	—	Memphis Board of Health. See G. B. Thornton, in Report of Supervising Surgeon U. S. Mar. Hos Service, 1873.
		250 1867	Sept. 4	Dec. —	45	Trans. A. M. A., vol. 19, p. 289.
		200 1867	Sept. 4	Dec. —	—	Trans. A. M. A., vol. 19, p. 275.
		1867	Sept. 4	Dec. —	—	Galv. M. J., 1867, vol. 2, No. 10, p. 930.
		260 1867	Sept. 4	Dec. —	—	Trans. A. M. A., vol. 19, p. 275.
		50 1863	Sept. 23	Dec. 23	—	Brown, Quarantine, p. 71.
		180 1855	Aug. —	Nov. —	1	J. Stephens, N. O. M. and S. J., 1856, p. 601.
	On Colorado River	30 1859	Aug. 11	Oct. 31	130	B. Dowler, N. O. M. J., 1860, p. 443.
	140 miles east by north of Austin, near Brazos River.	300 1853	Sept. 23	Dec. 23	—	Trans. A. M. A., vol. 19, p. 275.
	On Colorado River	25 1858	Aug. —	Nov. —	41	S. Army Medical Statistics, p. 353.
	On Neches River	325 1862	Oct. 12	Jan. 10	250	S. Challie, N. O. M. and S. J., 1858, p. 811.
	110 miles east-southeast of Austin, near Brazos River.	1873	Aug. 6	Dec. —	123	Galv. M. J., 1866, p. 170.
	Near the Gulf of Mexico.	250 1873	Aug. 6	Dec. —	132	Brown, Quarantine, p. 70.
	20 miles from Brazos River.	395 1873	Aug. —	Aug. —	—	Newsletters.
	On Rio Grande River	15 1862	Aug. —	Aug. —	—	Trans. A. M. A., vol. 19, p. 275.
	Between the Brazos and Navasota River.	200 1867	Aug. 6	Dec. —	—	Newsletters.
	Near Brazos River	250 1873	Aug. 6	Dec. —	—	Galv. M. J., 1866, p. 163.
	On Colorado River	250 1873	Aug. 6	Dec. —	—	Newsletters.
	On Brazos River	395 1873	Aug. —	Aug. —	—	Galv. M. J., 1866, p. 163.
	180 miles north northeast of Austin, near the Pecan River.	15 1862	Aug. —	Aug. —	—	Newsletters.
	On Corpus Christi Bay	1867	Aug. —	Aug. —	—	Galv. M. J., 1866, p. 170.
		1873	Aug. —	Aug. —	—	Brown, Quarantine, p. 70.
		200 1867	Aug. 6	Dec. —	—	Newsletters.
		250 1873	Aug. 6	Dec. —	—	Galv. M. J., 1866, p. 163.
		395 1873	Aug. —	Aug. —	—	Newsletters.
		15 1862	Aug. —	Aug. —	—	Galv. M. J., 1866, p. 170.
		1867	Aug. —	Aug. —	—	Brown, Quarantine, p. 70.

* Not within the incorporated limits of Charleston, South Carolina.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &c.—Continued

State.	Locality.	Situation.	Elevation, in feet, above sea-level.	DATE OF COM- MENCEMENT.		DATE OF SUS- PENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Texas.....	Cypress City, Harris Co.	Near Cypress Bayou, a branch of the San Jacinto River.	60	1853	.....	.....	.....	.....	Galv. M. J., 1866, p. 169.
	Dauville, Montgomery Co.	On branch of the San Jacinto River.	160	1859	.....	.....	.....	.....	B. Dowler, N. O. M. J., 1860, p. 443. Trans. A. M. A., vol. 19, p. 496.
	Edinburg, Cameron Co.	On Rio Grande River	100	1859	July —	.....	.....	13	B. Dowler, N. O. M. J., 1860, p. 443
	Goliad, Goliad Co.	On San Antonio River	50	1867	July 12	.....	.....	23	Trans. A. M. A., vol. 19, p. 284.
	Galveston, Galveston Co.	On an island in Galveston Bay.	5	1859	Sept. 30	.....	Oct. 11	250	Galv. M. J., 1867, p. 856.
				1844	July 5	.....	.....	400	Galv. M. J., 1867, p. 838.
				1847	Oct. 1	.....	Nov. 25	200	Do.
				1853	Aug. 16	.....	Nov. 28	536	Ed. Med. and Surg. Rep., vol. 17, 1867, No. 14, p. 297.
				1854	Aug. 9	.....	Nov. 5	404	Do.
				1858	Aug. 27	.....	Nov. 14	344	Do.
				1860	Sept. 17	.....	Nov. 30	162	Do.
				1864	Sept. 1	.....	Nov. 20	239	Do.
				1866	.....	.....	.....	.....	Galv. M. J., 1866, p. 338.
				1867	June 26	.....	Nov. —	1, 150	S. M. Welch, Galv. M. J., vol. 1, No. 2, p. 83.
			55	1867	Aug. 9	.....	Nov. 26	151	Trans. A. M. A., vol. 19, p. 280.
	Isaburg, Harris Co.	On Buffalo Bayou	200	1867	.....	.....	.....	.....	Trans. A. M. A., vol. 19, p. 275.
	Hempstead, Austin Co.	50 miles from Houston, and near Brazos River.	50	1853	.....	.....	.....	.....	Galv. M. J., 1866, p. 169.
	Hockley, Harris Co.	Near Buffalo Bayou	50	1844	.....	.....	.....	.....	W. McCraven, N. O. M. N., 1860, p. 105.
	Houston, Harris Co.	On Buffalo Bayou . . . . .	.....	1847	.....	.....	.....	.....	Do.
				1848	.....	.....	.....	.....	Do.
				1849	.....	.....	.....	.....	Do.
				1853	.....	.....	.....	.....	Do.
				1854	.....	.....	.....	.....	Do.
				1856	.....	.....	.....	.....	Do.
				1859	.....	.....	.....	.....	Do.
				1864	.....	.....	.....	.....	Do.
				1870	.....	.....	.....	.....	Galv. M. J., 1866, p. 163.
	Huntsville, Walker Co.	200 miles east by north of Austin.	200	1867	Aug. 9	.....	Oct. —	1	Galv. M. J., 1870, p. 296.
	Independence, Washing- ton Co.	80 miles east of Austin, near Brazos River.	250	1867	.....	.....	Oct. 19	130	Trans. A. M. A., vol. 19, p. 275.
					.....	.....	.....	.....	Trans. A. M. A., vol. 19, p. 289.

Table of Localities in the United States where Yellow Fever has appeared since A. D. 1668, &c.—Continued.

State.	Locality.	Situation.	Elevation in feet, above sea-level.	DATE OF COM- MENCEMENT.		DATE OF SUS- PENSION.		Mortality.	Authority.
				Year.	Month.	Year.	Month.		
Virginia	Richmond, Henrico Co. . . . Scott's Creek, near Ports- mouth. Winchester, Frederick Co.	On James River 20 miles from the Blue Ridge Mountains.	50	1806	.....	.....	.....	.....	M. Repos., 1807, p. 215.
			15	1855	June 29	.....	.....	.....	J. A. Manning, Va. M. J., 1857, p. 29.
			700	1804	July	.....	.....	.....	R. Dunbar, Med. Repos., 1805, p. 252.

CHART
OF
YELLOW FEVER
IN THE
United States

*Giving Elevations above Sea-Level of Localities where
Yellow Fever has appeared since A.D. 1668.*

Prepared by
DR. J. M. TONER
to accompany his paper on
"The Distribution and Natural History of Yellow Fever in the United States"
in the Report of the
Supervising Surgeon
-John M. Woodworth-
United States Marine-Hospital Service

(Figures accompanying Names of Localities indicate Elevation above Sea-Level in Feet.)



