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GEOLOGICAL SURVEY

No. 123



WASHINGTON

GOVERNMENT PRINTING OFFICE

1895

UNITED STATES GEOLOGICAL SURVEY

CHARLES D. WALCOTT, DIRECTOR

A

DICTIONARY OF GEOGRAPHIC POSITIONS

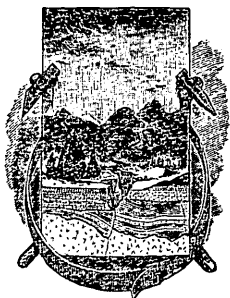
IN.

THE UNITED STATES

COMPILED BY

HENRY GANNETT

CHIEF TOPOGRAPHER



WASHINGTON

GOVERNMENT PRINTING OFFICE

1895

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LETTER OF TRANSMITTAL.

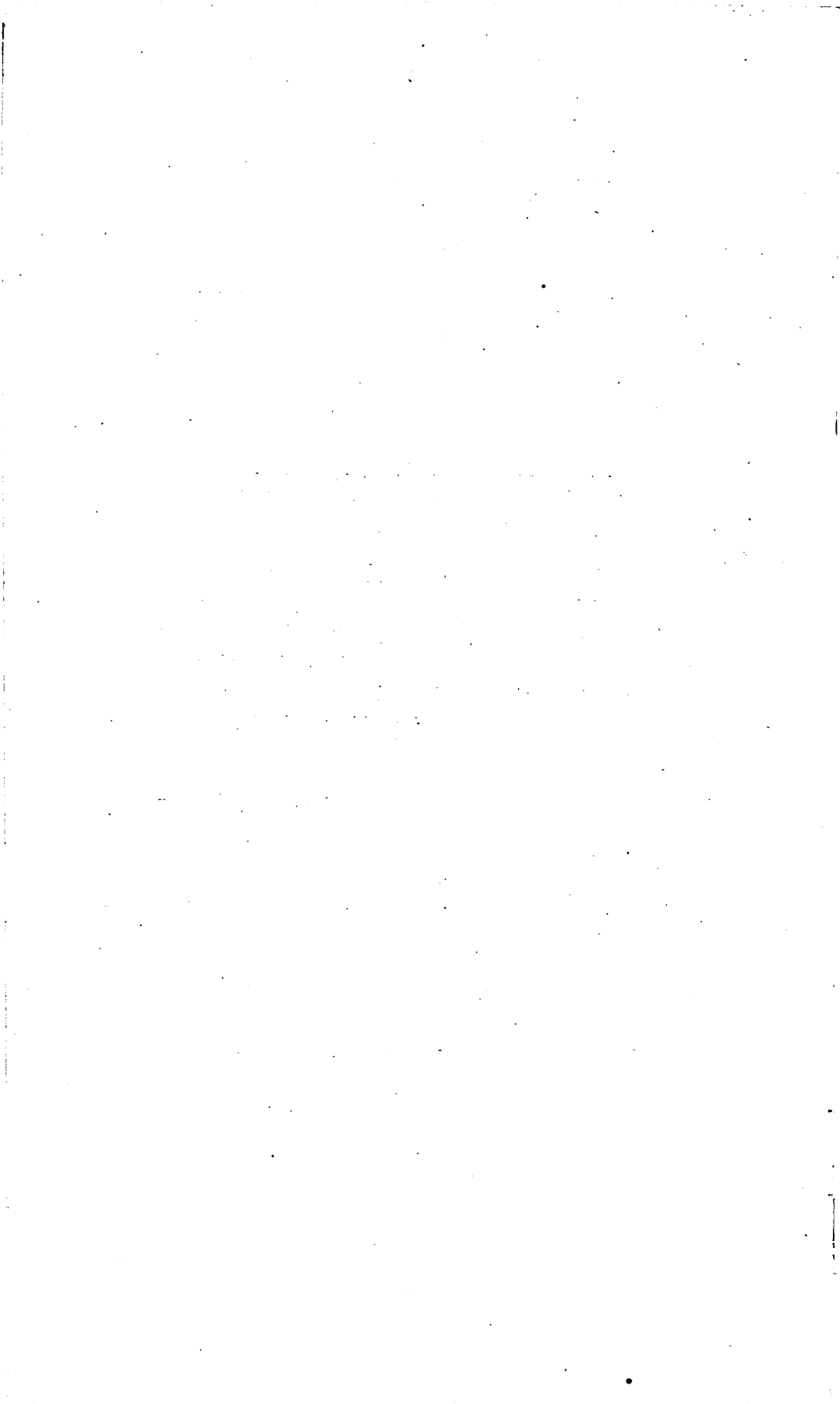
DEPARTMENT OF THE INTERIOR,
UNITED STATES GEOLOGICAL SURVEY,
DIVISION OF TOPOGRAPHY,
Washington, D. C., November 23, 1894.

SIR: I beg to transmit herewith, for publication as a bulletin, a compilation of positions determined within the limits of the United States.

Very respectfully,

HENRY GANNETT,
Chief Topographer.

Hon. CHARLES D. WALCOTT,
Director United States Geological Survey.



A DICTIONARY OF GEOGRAPHIC POSITIONS.

BY HENRY GANNETT.

INTRODUCTION.

For several years the Division of Topography of the United States Geological Survey has been engaged in compiling positions determined within the United States which are believed to be of sufficient accuracy for use in the preparation of its maps. This compilation has been found extremely useful in the office, and it is believed that its usefulness will be greatly extended by placing it before the public.

This list comprises between 9,000 and 10,000 positions. To publish it in extenso, with descriptions of the stations, their latitudes and longitudes, the distances and azimuths to neighboring stations, and the methods of determination, would extend this bulletin beyond all reasonable limits. To avoid making too bulky a volume, it has been decided to publish merely the latitudes and longitudes, with abbreviations indicating the authority, and references to the publications in which other data relating to the positions may be found.

The arrangement of these positions is the result of much thought, and that presented is believed to be the most convenient for the purposes for which such a compilation is needed. The positions are arranged by States and, within States, by "square degrees;" i. e., the quadrilateral limited by consecutive parallels and meridians. The States are arranged geographically, beginning with Maine and ending with California. Within the States the square degrees commence with the northeasternmost and run westward across the State; then they begin again with the eastern end of the next tier southward, and so on to the southwest corner of the State.

Within each square degree the positions are arranged alphabetically by name. The only exception to this is in the case of section corners in certain States on the prairies and plains. These section corners will be found at the end of their respective square degrees.

The controlling reason for the selection of this method of arrangement is that the most common requirement is for all positions within a certain area, and since that area may be large, such as the area of the State, or small, as, for instance, the neighborhood of a city, such

a requirement will be met by this arrangement better than by any other, except, possibly, an arrangement by counties. An unbroken alphabetical arrangement, either by States or by the United States, would be practically worthless for the use of surveyors.

AUTHORITIES.

The authorities which have contributed in any appreciable degree to geodetic determinations of positions in this country are few in number. They are as follows:

United States Coast and Geodetic Survey.

United States Geological Survey.

United States Lake Survey.

Mississippi River Commission.

Missouri River Commission.

United States Geological and Geographical Survey of the Territories. (Hayden Survey.)

United States Geographical and Geological Survey of the Rocky Mountain Region. (Powell Survey.)

United States Geographical Surveys West of the One Hundredth Meridian. (Wheeler Survey.)

New York State Survey.

By the above nine organizations 99 per cent of all determinations have been made. In addition to these a few determinations have been made by the United States Engineer Corps, by the New Jersey State Survey, by observatories, etc.

It is in order here to describe the work of each of these nine organizations, the parts of the country in which their work has been done, its extent, and the methods employed both in field and office, and to characterize the degree of accuracy which may be expected in their determinations.

UNITED STATES COAST AND GEODETIC SURVEY.

This organization, the oldest in the country, has been engaged in geodetic work for more than half a century. Its determinations are found all along the coast of the Atlantic, Gulf, and Pacific. Besides the work immediately connected with the coast, it has extended its triangulation and astronomic determinations of positions far inland in many directions and for different purposes. The greater part of New England, New York, and New Jersey, and much of Pennsylvania, are covered by its positions. From the head of Chesapeake Bay it has extended a series of quadrilaterals southwestward down the east front of the Appalachian Mountains to central Alabama. It has extended a belt of triangulation across the United States in the neighborhood of the thirty-ninth parallel. In aid of State surveys it has done much triangulation in interior States, including Wisconsin, Minnesota, Kentucky, and Tennessee.

Altogether many thousands of points of primary, secondary, and tertiary grades have been determined. Most of those published in the reports of this organization, however, rest upon fundamental data which are now discarded. Those published in the reports prior to 1870 rested upon chronometric determinations from Greenwich, or, still worse, upon assumed initial positions. All those published prior to 1880 were computed upon the Bessels spheroid of revolution, which has now been discarded in favor of Clarke's. Consequently all determinations published in the reports of this Survey prior to 1880 have been omitted from this compilation, since it is believed that an attempt to use them would only lead to error. The positions of the United States Coast and Geodetic Survey which are included in this publication are, first, those published since 1880, which are found almost entirely in southern New England and New York, and, second, a large number scattered widely over the country, which have been furnished to the United States Geological Survey in manuscript by the United States Coast and Geodetic Survey. They are upon Clarke's spheroid of revolution.

The work of this organization is of the highest order, bearing comparison with the best executed elsewhere in the world. For all purposes of mapmaking their determinations may be accepted without question of accuracy, however large may be the scale for which they are needed.

Astronomic determinations have been made by the best modern methods and instruments and by trained observers. The geodetic work has been done with a great variety of instruments, but in all cases with the best in use at the time. The results have been adjusted by least squares, and all determinations in the northeastern part of the country rest upon mean astronomical positions.

The abbreviation used for this organization in the following tables is "C. & G. S." The references are to its annual reports, abbreviated to "Rept.," with the last two figures of the date. Other references coupled with this authority are the first volume of the final report of the New Jersey State Survey, abbreviated to "Final Rept., Vol. 1," and Bulletin 122 of the United States Geological Survey, abbreviated to "Bull. 122." In cases where no reference is given it is to be understood that the data are not published in full. In such cases they can commonly be obtained by correspondence with the Superintendent of the United States Coast and Geodetic Survey.

UNITED STATES GEOLOGICAL SURVEY.

This organization has been engaged since 1882 in preparing a map of the country upon scales ranging from 1:250000 to 1:62500. For the primary control of these maps much triangulation has been executed. This is scattered widely over the country, and many thousand determinations have been made. To specify the localities would be to enumerate nearly every State in the Union. The extent of this triangulation and

the results accomplished are fully set forth in detail in Bulletin 122 of this organization.

This triangulation has been executed solely for the control of maps upon the above-mentioned scales, and, being simply a means toward a certain end, the extreme of accuracy has not been aimed at, but only such degree of accuracy as is required for the purpose. All the determinations are, however, believed to be of ample accuracy for the control of maps upon a scale of 1 mile to an inch.

Astronomic determinations have been made with the best instruments and the most approved methods. Triangulation has been done with a variety of instruments, from 6-inch theodolites, reading by vernier to ten seconds, up to 8-inch theodolites, reading by microscope to two seconds. Most of the work has been subjected to a least-square adjustment, although this refinement has not always been introduced.

All determinations are upon Clarke's spheroid.

In the tables the determinations of the United States Geological Survey are designated by the abbreviation "G. S." The reference given for nearly all of them is Bulletin 122 ("Bull. 122"), and for the rest Bulletins 49 and 70.

UNITED STATES LAKE SURVEY.

This organization was engaged for many years in a survey of the shores of the Great Lakes. The charts were controlled by geodetic work of high order, comparable with that of the United States Coast and Geodetic Survey. The determinations of positions are upon the shores of the Great Lakes and the St. Lawrence River, besides a belt of triangulation from the foot of Lake Erie to the head of Lake Michigan, and from the head of Lake Michigan southward in eastern Illinois nearly to the Ohio River.

The positions determined by this organization are published under the following title: "Professional Papers, Corps of Engineers, No. 24, Primary Triangulation, United States Lake Survey."

All positions determined are reduced to the Clarke spheroid.

In the following tables the Lake Survey is designated by the initials "L. S.," and the report above mentioned "Final Rept."

MISSISSIPPI RIVER COMMISSION.

This organization is engaged in a survey of that river, controlling it by triangulation, by means of which a large number of points have been located along its course, extending from southern Louisiana into Illinois. The accuracy of these determinations is amply sufficient for the scale of 1:20000, the largest scale upon which the maps have been issued. These determinations are upon the Clarke spheroid.

In the tables this organization is represented by the abbreviation "Miss. R. C.," and the references are, in the main, to its annual reports, which are published as a part of the reports of the Chief of Engineers, U. S. A.

MISSOURI RIVER COMMISSION.

The work of this organization is very similar to that of the Mississippi River Commission. Its determinations extend from the mouth of the river to its head, with one or two breaks in continuity. The positions are determined with ample accuracy for the control of maps upon a scale of 1 mile to 1 inch, and are reduced to the Clarke spheroid. They are indicated by the abbreviation "Mo. R. C.," and in most cases the references are to the annual reports of the Commission, which are published in connection with the reports of the Chief of Engineers, U. S. A.

UNITED STATES GEOLOGICAL AND GEOGRAPHICAL SURVEY OF THE TERRITORIES.

This organization, under the directorship of Dr. F. V. Hayden, surveyed between 1873 and 1878 considerable areas in Colorado, Idaho, Utah, and Wyoming upon a scale of 4 miles to 1 inch. The triangulation executed for the control of this work is believed to be of sufficient accuracy for the control of maps upon larger scales, even up to 1 mile to an inch. The work was done with 8-inch theodolites, reading by vernier to ten seconds, and was adjusted by a graphic method. The positions were reduced to the Bessels spheroid. In the tables they are distinguished by "Hayden" as authority, and referred to the annual reports of that organization for the years 1876 and 1877.

UNITED STATES GEOGRAPHICAL AND GEOLOGICAL SURVEY OF THE ROCKY MOUNTAIN REGION.

This organization, popularly known as the Powell Survey, mapped between 1872 and 1878 the greater part of Utah and northern Arizona. The triangulation upon which the work rests was executed with 8-inch theodolites, reading by vernier to ten seconds, and was adjusted by least squares. While used for the control of maps upon a scale of 4 miles to 1 inch, it is believed to be of sufficient accuracy for maps of 1 inch to the mile. The results were reduced to the Clarke spheroid and are designated in the tables by "Powell," and reference is made to Bulletin 122 of the United States Geological Survey, in which they have been published.

UNITED STATES GEOGRAPHICAL SURVEYS WEST OF THE ONE HUNDREDTH MERIDIAN.

These surveys were carried on between the years 1867 and 1878 under the directorship of Maj. (then Lieut.) George M. Wheeler, of the Corps of Engineers, U. S. A. Prior to 1873 the work was done entirely by traverse. In later years it was controlled by triangulation. This was executed merely for the control of maps upon a scale of 4 miles to an inch. The instruments used were theodolites, reading by vernier to ten seconds, and the results were adjusted by least squares. They are reduced to the Bessels spheroid. In the tables the work of this organization is designated by "Wheeler," and reference is made to the annual reports of the organization.

Determinations in the Rocky Mountain region will be found to exhibit discrepancies of magnitude. These are due to two causes; one, the fact that certain organizations have used the Bessels spheroid and the others that of Clarke. The discrepancies due to this cause are, however, small in amount, ranging from one to three seconds of latitude and longitude. The other source of discrepancy is due to station errors. The station errors in this region are often large, owing to the high relief of the country. In certain cases they are known to be as great as a fourth of a mile, and further investigation will doubtless develop much larger ones. These can not be adjusted until numerous astronomical determinations, scattered widely over the country, have been connected by triangulation and mean results obtained to which all determinations may be reduced.

NEW YORK STATE SURVEY.

This organization, under the directorship of Mr. James T. Gardiner, executed a large amount of geodetic work in that State during the fourteen years of its existence, 1874 to 1887, inclusive. This work is of a high order, amply sufficient for maps upon almost any scale for which they may be required. The results are upon the Clarke spheroid.

The abbreviation used for this authority is "S. S.," and the reference is to the final report of the Survey.

LIST OF POSITIONS.

MAINE.

Name.	Latitude.	Longitude.	Authority.	Reference.
	44°-45°	69°-70°		
	° ' "	° ' "		
Bigelow	44 42 47.91	69 43 39.72	G. S.	Bull. 122.
Blin	07 14.72	40 52.26	C. & G. S.	
Bowman	32 31.67	41 56.60	G. S.	Do.
Costellow	02 52.89	46 07.01	C. & G. S.	
Hornbeam	28 32.84	57 05.58	G. S.	Do.
Houdlette	05 02.42	46 15.46	C. & G. S.	
Iron Hill	12 45.95	47 07.66	do	
Layton Hill	10 22.86	45 50.25	do	
Marco	35 21.72	38 49.84	G. S.	Do.
Maxwell	02 12.95	50 35.66	C. & G. S.	
Merserve	08 44.79	44 29.27	do	
Monks Hill	21 36.25	53 00.15	G. S.	Do.
Quaker	26 08.63	46 30.63	do	Do.
Telegraph Hill	10 28.12	44 43.49	C. & G. S.	
Winter	16 54.54	44 27.94	G. S.	Do.
	44°-45°	70°-71°		
Mount Blue	44 43 41.43	70 20 33.16	C. & G. S.	
Pisgah	18 22.67	01 27.66	do	Do.
Sabattus	08 37.83	04 43.74	do	Do.
	43°-44°	69°-70°		
Cushman	43 58 44.04	69 40 46.62	do	
Edgecomb	57 13.76	36 18.53	do	
Great Hill	53 46.92	51 14.54	do	
Haggett	59 44.31	36 18.62	do	
Hodgkins	58 43.48	48 48.18	do	
Norwood	59 54.33	33 56.38	do	
Sprague	58 31.90	53 64.89	do	
	43°-44°	70°-71°		
Adams	43 52 53.95	70 23 28.51	G. S.	Do.
Agamenticus	13 24.63	41 32.91	C. & G. S.	Do.
Banneg Beg	23 03.18	47 07.26	G. S.	Do.
Biddeford:				
New slate spire	29 38.00	27 40.80	do	
Congregational church spire	29 34.20	27 26.59	do	
Tall spire	29 31.80	27 32.64	C. & G. S.	
Baptist church spire	29 40.50	27 30.53	do	
Billings Hill	04 03.13	41 30.66	do	
Bradbury	54 08.01	10 56.36	do	
Cape Elizabeth:				
West light-house (1874)	33 51.57	12 11.04	do	
East light-house (1874)	33 58.15	12 02.43	do	
East Sister	04 06.48	40 01.04	do	
Farnham	30 05.77	55 47.06	G. S.	Do.
Fort Sullivan	04 32.64	44 00.94	C. & G. S.	
Fort Washington	04 26.21	44 27.57	do	
Freeport:				
Church	51 28.13	06 12.86	do	
Dark spire	51 45.53	36 03.35	do	
Frost Hill	09 45.00	47 23.93	do	
Gorham	40 50.60	26 49.96	G. S.	Do.
Grovesville church spire	39 52.90	31 10.60	do	
Kennebunk:				
Town clock	23 16.70	32 15.90	do	
Spire	23 13.10	32 15.10	do	
Kittery Point	04 44.60	42 52.72	C. & G. S.	
Mount Independence	45 33.75	19 14.34	do	Do.
Mount Pleasant	01 36.69	59 21.94	do	
Munjoy	39 55.64	14 55.64	do	Do.
Ossipee	35 18.87	44 27.06	do	Do.
Portland Head light-house	37 23.51	12 30.23	do	

MAINE—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	43°-44° " "	70°-71° " "		
Rattlesnake, wooded summit.....	43 58 01.10	70 29 10.90	G. S.	Bull. 122. Do.
Saco, church.....	30 02.96	26 35.06	C. & G. S.	
Sawyer.....	44 41.00	45 13.06	G. S.	
Sebago Hill, tall dead tree.....	50 40.20	43 48.00	do.	
Sebago Bald Hill, pine tree.....	51 53.30	41 57.30	do.	
Seward.....	04 11.19	40 44.91	C. & G. S.	
Tare Shirt.....	19 15.90	49 20.85	G. S.	
West Sister.....	03 42.98	40 21.62	C. & G. S.	
Whale Back.....	03 31.59	41 49.26	do.	
Light-house (1878).....	03 31.80	41 48.56	do.	
Light-house (1850).....	03 31.70	41 49.05	do.	
Wood Island.....	03 46.23	41 52.34	do.	
White Island.....	03 35.42	41 20.10	do.	
Windham, church.....	47 50.70	25 26.60	G. S.	
Wood Island light-house.....	27 24.70	19 46.25	C. & G. S.	
Wooded Knob.....	54 16.00	39 18.60	G. S.	
Yarmouth:				
Yellow spire.....	48 12.70	11 47.07	C. & G. S.	
White spire.....	47 58.28	11 01.80	do.	
York.....	46 43.45	11 08.88	do.	
	42°-43° " "	70°-71° " "		
Isle of Shoals, Hog Island.....	42 59 14.86	70 36 50.28	do.	

NEW HAMPSHIRE.

	44°-45° " "	71°-72° " "		
Agassiz.....	44 15 58.17	71 40 38.05	G. S.	Bull. 122. Do. Do. Do. Do. Do.
Carrigain.....	05 37.23	26 50.87	do.	
Ingalls.....	28 16.90	02 22.00	C. & G. S.	
Iron Mountain.....	08 03.02	14 22.65	G. S.	
Kearsarge.....	06 21.06	05 41.12	do.	
Lafayette.....	09 38.92	38 41.66	C. & G. S.	
Moat.....	02 35.70	12 55.18	G. S.	
Moriah.....	20 24.90	07 55.40	C. & G. S.	
Mount Washington:				
Chimney.....	16 14.44	18 11.49	do.	
Tower.....	16 14.06	18 13.65	do.	
Prospect Hill.....	27 05.88	34 16.80	G. S.	
South Baldface.....	13 51.46	04 42.45	do.	
Starr King.....	26 04.50	25 59.80	C. & G. S.	
	43°-44° " "	70°-71° " "		
Blunt Island.....	43 03 25.95	70 43 53.46	do.	Rept. '85.
Boatswain Hill.....	03 57.17	43 26.43	do.	
Clark Island.....	04 34.36	43 28.63	do.	
Clark Island, 2.....	04 37.30	43 28.50	do.	
Fort Constitution.....	04 18.06	42 34.67	do.	
Foss Rye.....	00 45.81	44 21.28	do.	
Frost Hill.....	03 35.25	43 36.27	do.	
Frost Point.....	03 11.01	43 10.86	do.	
Garrison.....	12 34.63	52 12.71	do.	
Jerrys Fort.....	03 26.92	42 45.66	do.	
Newcastle.....	03 37.10	43 20.49	do.	
Portsmouth Harbor:				
Northwest base (1842).....	02 55.73	43 14.19	do.	
Newcastle light-house (1850-1878).....	04 16.10	42 32.92	do.	
Pulpit Rock.....	01 58.54	43 08.31	do.	
Salter Island.....	03 57.00	44 49.78	do.	
Stratham Hill.....	02 22.53	53 26.26	do.	
Tower.....	04 13.70	42 45.68	do.	
Wentworth Height.....	03 41.46	44 29.38	do.	
	43°-44° " "	71°-72° " "		
Chocorua.....	43 57 16.17	71 16 26.36	G. S.	
Patuccawa.....	07 13.69	11 51.32	C. & G. S.	
	43°-44° " "	72°-73° " "		
Hanover.....	43 42 15.20	72 17 07.95	do.	
Observatory Hill, New Dartmouth College.....	42 19.79	17 08.07	do.	
	42°-43° " "	70°-71° " "		
Great Boars Head.....	42 55 05.43	70 47 45.93	do.	
Hampton.....	56 33.94	49 37.92	do.	
Hampton Falls.....	54 44.37	53 51.88	do.	
Little Boars Head.....	57 28.88	46 33.80	do.	
Seabrook.....	52 29.59	49 06.55	do.	

NEW HAMPSHIRE—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° / "	71°-72° ° / "		
Philbrick	42 56 59.66	71 07 14.70	C. & G. S.	
Unkonoconuc	58 59.86	35 19.38	do	
	42°-43°	72°-73°		
Monadnock	42 51 41.17	72 06 30.78	do	

VERMONT.

	44°-45° ° / "	72°-73° ° / "		
Potato Hill	44 07 13.69	72 56 12.04	C. & G. S.	
	44°-45°	73°-74°		
Apple Tree Point	44 29 50.37	73 16 27.77	do	
Barber Hill	18 10.20	15 33.44	do	
Comstock Hill	23 26.66	15 40.46	do	
Fields Hill	12 30.92	13 59.58	do	
Head	49 49.65	20 35.59	do	
Hen Island	49 22.00	16 20.26	do	
Hill	52 42.35	20 01.76	do	
Island La Motte light-house	54 23.46	20 38.16	do	
Juniper Island	26 57.70	16 39.23	do	
Sawyer Island	39 00.63	21 21.05	do	
Saxton Point	23 48.44	16 45.11	do	
Smith	00 34.83	22 22.85	do	
Snake Mountain tower	03 41.91	16 52.11	do	
Whitford	04 16.32	17 31.84	do	
Windmill Point light-house	58 54.65	20 32.26	do	
	43°-44°	72°-73°		
Ascutney	43 26 46.74	72 27 08.48	do	
Colton	57 10.24	22 03.21	do	
Gile	47 20.78	21 07.33	do	
Glebe	11 20.23	45 41.10	do	
Goshen	49 46.72	58 16.87	do	
Killington	36 17.50	49 14.28	do	
Rochester	52 01.29	44 55.15	do	
Styles	16 25.20	56 18.41	do	
West Hawks	22 04.86	34 50.60	do	
	43°-44°	73°-74°		
Fletcher	43 59 27.01	73 18 41.26	do	
Forbes	29 28.26	19 46.83	do	
French	47 55.50	21 49.16	do	
Herrick (1882)	33 45.67	05 58.07	do	
Landon	47 41.04	11 05.51	do	
Mount Defiance	49 53.15	24 25.45	do	
Mount Equinox	09 57.98	07 02.71	do	
Northeast	26 07.49	10 02.75	do	
Poultney, Baptist church	30 57.02	14 16.17	do	
Rupert	18 28.23	12 00.46	G. S.	
Sisson Hill	52 59.72	19 50.00	do	
Wilson	43 17.55	20 45.57	do	
	42°-43°	72°-73°		
Chesterfield	42 53 23.15	72 26 23.11	do	
Halifax	46 30.79	43 27.67	C. & G. S.	
Haystack	54 50.09	55 10.55	do	
White Hill	59 17.68	48 18.61	do	

MASSACHUSETTS.

	42°-43° ° / "	70°-71° ° / "		
Abbott Rock, stone beacon	42 31 49.48	70 51 46.34	C. & G. S.	Rept. '85.
Amesbury Mills, tall white spire	51 21.38	55 58.58	do	Do.
Andrew Point	40 58.98	37 46.80	do	Do.
Annisquam Harbor, light-house	39 43.02	40 55.29	do	Do.
Annisquam, pole on rock	39 26.92	40 39.62	do	Do.
Apple Island, flag	21 31.55	59 32.43	do	Do.
Atlantic House, chimney	16 03.02	50 53.05	do	Do.
Bailey Wharf	48 42.94	51 56.55	do	Do.
Baker Island, light-house	32 11.53	47 11.22	do	Do.
Baker Hill	14 35.94	54 28.47	do	Do.
Ballard	27 17.56	59 32.57	do	Do.
Barrel Beacon	19 22.27	55 09.18	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° ' "	70°-71° ° ' "		
Bartlett	42 50 04.46	70 55 23.74	C. & G. S.	Rept. '85.
Batt Hill	52 15.86	53 32.60	do	Do.
Beacon Hill, 1	36 24.94	38 43.01	do	Do.
Beacon Hill, 2	36 11.74	38 38.64	do	Do.
Beacon Hill, magnetic station	36 22.79	38 46.85	do	Do.
Belle Isle	22 57.30	59 56.35	do	Do.
Beverly:				
Powder house	33 12.60	52 33.13	do	Do.
Tall spire, with turrets	32 51.06	52 43.52	do	Do.
Beverly Point, flag in tree	32 59.04	54 15.46	do	Do.
Beverly rocks	33 58.78	50 14.98	do	Do.
Bluff Head, flag	22 03.82	58 04.53	do	Do.
Black Rock	16 08.56	49 28.42	do	Do.
Bolles	35 05.95	47 35.44	do	Do.
Bonney	03 10.50	52 34.01	do	Do.
Boston, light-house	19 40.74	53 26.18	do	Do.
Bowlder, west of Salem Turnpike	30 21.92	56 07.38	do	Do.
Bowditch Ledge, beacon	32 25.38	48 43.19	do	Do.
Brant	05 17.82	38 28.70	do	Do.
Breakwater, east end, spindle	37 27.31	17 34.06	do	Do.
Brookhouse House	29 08.56	53 13.76	do	Do.
Brown Hill	36 45.69	50 49.98	do	Do.
Bunkin Island, flag	16 51.86	54 02.85	do	Do.
Burnham Brown, flag	39 32.00	49 25.88	do	Do.
Butler Hill	39 29.50	40 18.33	do	Do.
Byfield church, square tower	44 19.04	55 53.81	do	Do.
Cape Ann, north light-house	38 21.25	34 31.05	do	Do.
Cape Ann, south light-house	38 12.82	34 31.78	do	Do.
Cape Cod, or Highlands of Truro, light-house	02 23.16	03 39.83	do	Do.
Carolina Hill	06 58.52	43 52.85	do	Do.
Cat Hill	13 19.18	45 20.32	do	Do.
Cat Island:				
East rock	30 32.61	48 45.00	do	Do.
Flagstaff	30 43.52	48 55.42	do	Do.
Choate	39 55.52	45 40.80	do	Do.
Church spire, summer house	28 55.14	53 03.45	do	Do.
Cliff	09 29.08	45 05.26	do	Do.
Coddon	30 59.17	51 17.52	do	Do.
Coney Island, flag	31 42.89	50 14.78	do	Do.
Cohasset church	14 35.63	48 14.02	do	Do.
Crane Neck	46 13.67	58 31.75	do	Do.
Crow Point	15 41.98	53 46.47	do	Do.
Crusoe House, flagstaff	26 10.65	58 07.58	do	Do.
Danvers Insane Asylum, tower	34 51.74	58 30.82	do	Do.
Danvers New Mills, tall spire	33 20.70	55 30.55	do	Do.
Danvers Plain, tall spire	34 03.82	56 18.26	do	Do.
Deer Island	21 01.23	57 30.99	do	Do.
Beacon	20 23.44	57 18.41	do	Do.
Flag	21 01.24	57 30.95	do	Do.
Hospital cupola	21 12.39	57 53.15	do	Do.
Dexter Point	32 53.80	50 44.26	do	Do.
Derby Wharf, light-house	30 59.91	53 02.54	do	Do.
Dodge Hotel, cupola	32 02.86	53 49.30	do	Do.
Dogtown, Methodist church	38 04.86	40 33.09	do	Do.
Dread Ledge, beacon	27 23.19	53 43.54	do	Do.
Dummer Academy	45 16.29	53 59.58	do	Do.
Duxbury, astronomic station	02 55.18	40 10.96	do	Do.
Eagle Island	31 31.21	48 49.24	do	Do.
East Duxbury, belfry	02 08.10	40 24.05	do	Do.
Eastern Point, light-house	34 49.14	39 53.90	do	Do.
East Weymouth, church	12 50.40	55 31.08	do	Do.
Eaton Hill	15 44.08	59 53.43	do	Do.
Egg Rock	26 00.40	53 53.34	do	Do.
Light-house	26 00.76	53 54.02	do	Do.
Essex, powder house	38 19.16	47 18.24	do	Do.
Essex, red-top church	37 59.96	46 53.16	do	Do.
Fawn Beacon	21 17.58	56 32.87	do	Do.
Florence, Cosmian Hall clock tower	20 09.26	40 26.55	do	Do.
Folly Hill	33 59.12	54 48.20	do	Do.
Fort Lee	31 54.71	52 28.94	do	Do.
Fort Pickering, light-house	31 35.57	52 01.07	do	Do.
Fort Warren, west gable of house	19 13.10	55 42.40	do	Do.
Gallop Island, flag	19 37.30	56 21.48	do	Do.
Gallop Island, 2	19 37.97	56 23.16	do	Do.
George Island	19 11.16	55 42.32	do	Do.
Glocester:				
Church	37 00.46	39 25.66	do	Do.
Universalist church	36 47.66	40 00.14	do	Do.
Grape Island, flag	16 07.28	55 27.21	do	Do.
Graves	21 53.66	52 12.61	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	°	'	°	'		
	42°	43°	70°	71°		
Great Aquavite	42	31 34.58	70	51 28.24	C. & G. S.	Rept. '85.
Great Brewster		20 01.96		53 45.18	do	Do.
Great Brewster, 2		20 01.68		53 45.22	do	Do.
Great Haste		32 05.29		50 32.51	do	Do.
Great Misery, flag		32 50.20		47 49.23	do	Do.
Great Quincy		16 29.03		57 06.87	do	Do.
Green Island, flag		21 11.17		53 33.01	do	Do.
Green Island, 2		21 11.14		53 33.02	do	Do.
Grose		09 53.90		52 43.52	do	Do.
Grover Cliff		23 22.79		58 08.05	do	Do.
Gurnet		00 11.40		36 06.05	do	Do.
Gurnet, light-house		00 12.30		36 04.03	do	Do.
Halfway Rock, beacon		30 09.38		46 31.40	do	Do.
Hangman Ledge, beacon		17 44.75		57 39.22	do	Do.
Hardy Rock, beacon		32 11.36		48 01.62	do	Do.
Hatch		08 08.48		42 11.36	do	Do.
Hayden's Hotel		15 10.37		46 20.13	do	Do.
Highland		01 41.33		02 47.49	do	Do.
Hingham :						
Church with clock		14 34.32		53 29.43	do	Do.
Great Plains church		12 38.35		53 04.50	do	Do.
Old Colony house, cupola		14 51.75		52 22.62	do	Do.
Old church		14 26.68		53 14.96	do	Do.
Hull :						
Oregon House, cupola		18 12.14		54 47.44	do	Do.
Steamboat Hotel, cupola		18 16.26		55 08.29	do	Do.
Hospital Point, light-house		32 47.60		51 23.29	do	Do.
Indian Hill, flagstaff		47 03.22		56 54.40	do	Do.
Ipswich :						
Beacon		41 07.56		45 59.91	do	Do.
Light-house		41 06.81		46 07.32	do	Do.
Tall dark spire		40 53.18		50 11.70	do	Do.
Town farm		43 03.92		50 52.09	do	Do.
Jones		09 28.84		50 01.88	do	Do.
Kettle Island		34 01.26		43 22.00	do	Do.
Kimball's house, center chimney		20 19.12		53 26.75	do	Do.
King Oak Hill, pole		13 38.94		56 25.32	do	Do.
Lane Cove, white spire		40 41.55		39 15.88	do	Do.
Legg Hill		29 23.30		53 30.83	do	Do.
Lewis		08 09.45		43 13.69	do	Do.
Little Aquavite, pole		31 34.78		51 13.10	do	Do.
Little Haste, beacon		32 07.71		50 35.95	do	Do.
Little Nahant		26 13.27		55 52.00	do	Do.
Little Oldtown		46 24.87		50 32.24	do	Do.
Londoner Beacon		38 06.26		33 59.33	do	Do.
Long Island Head, light-house		19 48.13		57 24.12	do	Do.
Long Island Hotel, cupola		19 27.40		57 53.39	do	Do.
Long Island, south end		18 39.52		58 37.16	do	Do.
Long Island, south end, 2		18 39.60		58 36.88	do	Do.
Long Point :						
Light-house		01 59.47		10 09.01	do	Do.
Schoolhouse		01 21.71		10 55.15	do	Do.
Lovell Island		19 48.00		55 50.36	do	Do.
Lufkin Hill		38 16.08		44 40.86	do	Do.
Lynn, east church, green tower		28 07.12		56 16.41	do	Do.
Lynn :						
High rock		28 04.96		56 52.10	do	Do.
West church turret		27 45.71		57 37.00	do	Do.
Manchester, church, with dark spire		34 30.28		46 20.82	do	Do.
Manning Hill		42 30.26		48 23.32	do	Do.
Marblehead :						
Black-top church		30 25.66		50 54.11	do	Do.
Light-house		30 19.76		50 03.02	do	Do.
Neck		29 46.94		50 29.04	do	Do.
Rock, beacon		30 11.95		49 54.48	do	Do.
Marshfield cupola		09 25.12		44 33.34	do	Do.
Milk Island		37 41.64		35 31.80	do	Do.
Minot Ledge light-house		16 11.16		45 34.71	do	Do.
Moonhead, 1		18 22.20		59 23.06	do	Do.
Moonhead, 2		18 22.04		59 23.13	do	Do.
Morrill		49 15.65		51 06.50	do	Do.
Mouth of Merrimac, chimney of house		49 13.63		49 18.14	do	Do.
Mount Hope		11 34.97		49 18.00	do	Do.
Nahant, hotel cupola		25 09.20		54 19.84	do	Do.
Nantasket		18 15.69		54 20.20	do	Do.
Nantucket Cliff, range beacon		17 37.96		06 24.12	do	Do.
Newbury :						
Belleville church		49 06.77		53 24.84	do	Do.
Upper green church		47 58.56		51 46.19	do	Do.
Newburyport :						
Academy		48 31.79		52 28.89	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° ' "	70°-71° ° ' "		
Newburyport—Continued.				
Beacon on north pier.....	42 48 49.26	70 51 28.43	C. & G. S.	Rept. '85.
Federal Street church.....	48 30.56	51 59.57	do	Do.
Harris Street church.....	48 31.71	52 23.74	do	Do.
Newburyport light-house.....	48 54.76	49 10.42	do	Do.
Newburyport Unitarian church.....	48 38.42	52 19.21	do	Do.
Neptune House, flagstaff.....	25 43.48	58 46.76	do	Do.
Nix's Mate.....	19 53.35	56 40.94	do	Do.
North Gooseberry Island.....	31 35.97	47 39.19	do	Do.
North Marshfield Unitarian church spire.....	08 30.15	44 29.46	do	Do.
North Pettick Island.....	18 06.28	55 47.57	do	Do.
North Pettick Island, 2.....	18 06.32	55 47.73	do	Do.
North Weymouth, church.....	13 46.46	56 42.94	do	Do.
Ocean House, cupola.....	28 53.73	52 33.64	do	Do.
Oldtown.....	46 07.58	51 00.90	do	Do.
Oldtown church spire.....	47 58.49	51 46.19	do	Do.
Orne.....	30 10.26	57 54.45	do	Do.
Outer Brewster, 2.....	20 29.33	52 41.21	do	Do.
Ox Pasture Hill.....	44 17.08	52 55.00	do	Do.
Paine Hill, observatory.....	14 01.56	59 42.96	do	Do.
Parker Hill.....	13 45.60	46 49.55	do	Do.
Pamet.....	00 14.91	04 52.68	do	Do.
Pig Rock beacon.....	16 44.04	56 22.65	do	Do.
Pincin Hill.....	11 21.07	46 45.42	do	Do.
Plum Island, 1.....	46 37.02	48 17.72	do	Do.
Plum Island, 2.....	44 27.80	47 33.78	do	Do.
Plum Island magnetic station.....	47 59.94	48 49.34	do	Do.
Plymouth light-house.....	00 12.30	36 04.03	do	Do.
Point Allerton beacon.....	18 47.08	53 00.29	do	Do.
Point Allerton flag.....	18 37.12	52 59.36	do	Do.
Point Shirley, foundry chimney.....	21 31.80	58 20.22	do	Do.
Poole Hill.....	39 24.69	38 05.77	do	Do.
Powow.....	51 57.01	56 18.81	do	Do.
Powder Point.....	02 49.15	39 10.75	do	Do.
Prospect:				
Hingham.....	11 34.69	51 27.16	do	Do.
Rowley.....	42 19.15	53 33.13	do	Do.
Provincetown.....	03 08.45	11 20.53	do	Do.
Academy.....	03 09.78	11 14.50	do	Do.
Baptist church belfry.....	03 27.45	10 39.74	do	Do.
Methodist church belfry.....	03 06.52	11 17.82	do	Do.
Methodist Centenary church.....	02 52.44	11 26.78	do	Do.
New Universalist church spire.....	03 02.08	11 19.94	do	Do.
Orthodox church spire.....	03 04.03	11 17.61	do	Do.
Schoolhouse.....	02 41.17	11 36.90	do	Do.
Quincy:				
Bent Point church.....	14 45.75	58 31.97	do	Do.
Black-top church.....	15 00.66	59 49.90	do	Do.
Race.....	04 50.41	12 26.65	do	Do.
Race Point light-house.....	03 44.56	14 36.99	do	Do.
Railcut Hill.....	37 42.87	38 58.40	do	Do.
Rainsford Island:				
Flag.....	18 46.91	57 07.12	do	Do.
Flagstaff.....	18 46.83	57 07.41	do	Do.
Rockland church.....	07 48.98	54 56.63	do	Do.
Rockland House, cupola.....	15 56.90	51 10.05	do	Do.
Rockport, red-top church.....	39 28.80	37 09.70	do	Do.
Rowley:				
Church spire with turrets.....	42 59.02	52 42.38	do	Do.
Marsh.....	44 37.76	50 16.33	do	Do.
Sagamore Head.....	16 24.46	51 50.04	do	Do.
Salem:				
South church, corner Cambridge and Chesnut streets.....	31 12.02	53 59.36	do	Do.
Howard street church.....	31 28.12	53 34.04	do	Do.
Salisbury church.....	50 33.98	51 38.96	do	Do.
Salisbury Beach.....	50 49.10	49 03.44	do	Do.
Salisbury Marsh.....	52 18.68	49 14.68	do	Do.
Salt Island, flag.....	37 11.38	37 26.60	do	Do.
Salvage.....	40 20.24	34 05.94	do	Do.
Scituate.....	14 14.65	49 51.23	do	Do.
Light-house.....	12 17.32	42 58.74	do	Do.
Unitarian church.....	12 00.69	45 22.19	do	Do.
South Abington.....	04 49.67	56 34.24	do	Do.
South Danvers, tall spire.....	31 35.38	55 40.55	do	Do.
South Pettick Island.....	17 23.82	56 51.66	do	Do.
Spectacle Island, flag.....	19 38.90	59 16.66	do	Do.
Sprague.....	00 17.90	58 00.11	do	Do.
Standish.....	00 50.77	40 58.21	do	Do.
Monument.....	00 50.24	40 57.66	do	Do.
Stout.....	04 09.52	07 32.83	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	70°-71°		
	° ' "	° ' "		
Straitsmouth light-house.....	42 39 44.37	70 35 19.15	C. & G. S.....	Rept. '85.
Strawberry Hill, barn.....	17 22.52	52 49.47	do.....	Do.
Studley.....	08 13.49	48 07.38	do.....	Do.
Summerhouse on high rock.....	28 05.06	56 48.86	do.....	Do.
Swampscott, church.....	28 06.14	54 58.40	do.....	Do.
Ten Pound Island light-house.....	36 06.66	39 57.58	do.....	Do.
Thatcher Island.....	38 10.94	34 46.28	do.....	Do.
Thayer Hill, yellow house chimney.....	13 51.49	58 10.55	do.....	Do.
Thompson.....	36 41.92	43 49.16	do.....	Do.
Tinker Island, pole on house.....	28 57.71	50 07.28	do.....	Do.
Turkey Hill.....	14 25.68	51 14.22	do.....	Do.
Twopenny Loaf, flag.....	39 36.80	43 08.84	do.....	Do.
Upper Harbor, inner beacon.....	48 40.70	51 59.70	do.....	Do.
Do.....	48 41.70	51 55.25	do.....	Do.
Ware Hill, flagstaff.....	30 40.60	54 32.79	do.....	Do.
Webster (Hon. D.):.....				
West chimney on house.....	03 48.26	40 47.07	do.....	Do.
Flagstaff.....	04 39.21	40 13.77	do.....	Do.
Weeks, house chimney.....	20 21.21	53 49.02	do.....	Do.
West Duxbury, Unitarian church steeple.....	02 06.65	41 53.44	do.....	Do.
West Salisbury :.....				
Powderhouse.....	51 22.08	54 51.36	do.....	Do.
Church.....	50 39.64	55 01.21	do.....	Do.
West Scituate, church.....	09 28.33	51 10.23	do.....	Do.
Weymouth Great Hill.....	14 59.38	56 33.50	do.....	Do.
White.....	07 05.94	41 24.59	do.....	Do.
White Hill.....	12 52.47	58 39.30	do.....	Do.
Winthrop Head.....	22 04.07	58 06.04	do.....	Do.
Winthrop Head, 2.....	22 04.36	58 08.25	do.....	Do.
Wood End light-house.....	01 16.61	11 38.49	do.....	Do.
Woods Hotel.....	45 23.87	48 15.60	do.....	Do.
Woodward Hill, flag.....	36 59.74	42 05.96	do.....	Do.
	42°-43°	71°-72°		
Adams School, flagstaff.....	42 21 57.86	71 01 59.08	do.....	Do.
Agassiz Museum.....	22 44.52	06 56.04	do.....	Do.
Alum Pond.....	01 14.51	45 45.24	do.....	Do.
Ashland.....	16 37.41	06 52.84	do.....	Do.
Asnebumskit.....	18 05.11	53 50.81	do.....	Do.
Bald Hill.....	02 44.22	42 35.59	do.....	Do.
Battery Wharf.....	22 01.32	02 59.22	do.....	Do.
Bay State Iron Works.....	20 24.77	02 22.31	do.....	Do.
Bay State Steam Engine Works.....	21 45.52	02 09.69	do.....	Do.
Bell Tower.....	17 50.78	06 30.83	do.....	Do.
Bird Island.....	21 22.80	01 15.97	do.....	Do.
Beacon.....	21 18.06	01 15.96	do.....	Do.
Blind Asylum.....	20 07.04	02 32.86	do.....	Do.
Blue Hill.....	12 43.68	06 52.71	do.....	Do.
Boston :.....				
State prison cupola.....	22 28.23	04 08.84	do.....	Do.
Berkley street, yellow spire.....	20 44.13	04 15.42	do.....	Do.
Hanover street, brick church.....	21 49.90	03 17.44	do.....	Do.
Hollis street church.....	20 59.42	03 53.15	do.....	Do.
Jail, cupola.....	21 43.26	04 14.44	do.....	Do.
Catholic cathedral statue.....	20 12.67	04 25.14	do.....	Do.
Neck, dark spire with cross.....	20 26.77	04 25.27	do.....	Do.
St. Mary's church, north spire.....	21 54.82	03 29.69	do.....	Do.
State House.....	21 29.59	03 51.04	do.....	Do.
Boxboro.....	29 29.94	31 39.96	G. S.....	Bull. 122.
Boylston School, cupola.....	21 21.51	03 09.02	C. & G. S.....	Rept. '85.
Breed Island.....	23 28.04	00 30.28	do.....	Do.
Brick factory.....	23 45.12	04 12.89	do.....	Do.
Near Mystic River, cupola.....	24 32.76	05 27.07	do.....	Do.
Brighton :.....				
East church.....	20 57.83	09 13.03	do.....	Do.
West church, with clock.....	20 56.25	09 20.29	do.....	Do.
Brookline, Dr. Pierce's church.....	19 38.18	07 52.48	do.....	Do.
Brown Hill.....	37 00.54	50 41.31	G. S.....	Bull. 122.
Bunker Hill :.....				
Catholic church.....	22 53.34	04 00.70	C. & G. S.....	Rept. '85.
Monument.....	22 35.05	03 40.56	do.....	Do.
Burnt Swamp.....	01 08.36	22 54.53	do.....	Do.
Cambridge.....				
Baptist church.....	22 34.42	07 07.71	do.....	Do.
Gas works chimney.....	22 24.35	07 36.78	do.....	Do.
Observatory, center of dome.....	22 53.49	07 43.88	do.....	Do.
Observatory, meridian mark.....	25 47.43	07 43.52	do.....	Do.
Observatory, west transit.....	22 53.48	07 44.48	do.....	Do.
Unitarian church.....	22 28.70	07 10.78	do.....	Do.
Cambridgeport :.....				
Flagstaff near engine house.....	21 45.58	05 15.64	do.....	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° ' "	71°-72° ° ' "		
Cambridgeport—Continued.				
Observatory dome	42 21 19.06	71 06 35.85	C. & G. S.	Rept. '85.
Redoubt, flagstaff	21 23.89	06 17.21	do	Do.
Universalist church	21 47.52	06 00.88	do	Do.
Captain John's Hill	16 15.67	07 47.00	do	Do.
Carpet-cleaning factory	21 16.62	04 39.93	do	Do.
Castle Island	20 19.26	00 45.65	do	Do.
Center	21 09.74	02 46.38	do	Do.
Central Wharf cupola	21 32.54	03 05.21	do	Do.
Chelsea:				
Bridge	22 56.55	02 55.67	do	Do.
Brown tower	23 28.98	01 46.40	do	Do.
Church	24 32.98	00 26.28	do	Do.
Dark spire cross	23 40.47	01 54.68	do	Do.
Tall dark spire	23 30.56	02 16.90	do	Do.
White spire, martin hole windows	23 24.55	02 19.91	do	Do.
White spire, three tiers windows	23 36.20	02 16.13	do	Do.
White spire, with clock	23 27.33	02 18.18	do	Do.
Chandler Hill	16 15.20	47 11.43	do	Do.
Charles River tripod	21 09.41	07 00.28	do	Do.
Charlestown, brick church cross	22 21.96	03 48.32	do	Do.
Cloverdon	22 47.54	07 18.42	do	Do.
Observatory (zenith telescope)	22 46.29	07 17.60	do	Do.
Coal shed, flagstaff	23 06.56	02 39.20	do	Do.
Commercial Point, wharf, flag	18 00.28	02 38.24	do	Do.
Corey	20 33.38	08 02.20	do	Do.
Cunard Wharf, flagstaff	21 49.98	02 27.98	do	Do.
Dorchester:				
Church, with clock	18 29.60	03 45.81	do	Do.
Dr. Codman's church	17 26.85	04 18.00	do	Do.
Heights	20 03.43	02 35.91	do	Do.
East Boston	22 53.13	02 11.74	do	Do.
Brick church, dark spire	22 26.77	02 21.89	do	Do.
Dry dock, post	21 44.76	01 54.81	do	Do.
Elevator	21 47.59	02 15.51	do	Do.
Granite church, dark spire	22 16.06	02 28.44	do	Do.
Iron works, chimney	22 55.76	01 48.44	do	Do.
Point, flag	21 58.24	01 44.75	do	Do.
Reservoir, 2	22 52.56	02 09.91	do	Do.
Shipyard, east wharf, post	21 50.12	01 41.59	do	Do.
Eastern avenue, wharf, post	21 50.10	02 56.18	do	Do.
East Cambridge:				
Church near court-house	22 11.46	04 50.78	do	Do.
Court-house, cupola	22 11.95	04 48.56	do	Do.
Edgeworth Mills (round chimney)	25 01.38	04 50.87	do	Do.
Faneuil Hall	21 36.38	03 23.70	do	Do.
Farm schoolhouse, southeast gable	19 05.26	00 27.55	do	Do.
Fay Mountain	14 23.79	37 42.54	G. S.	Bull. 122.
Fitchburg:				
Depot	22 00.36	03 41.64	C. & G. S.	Rept. '85.
Roundhouse	22 23.43	04 10.02	do	Do.
Flagstaff, corner Dorchester street and turnpike	19 47.62	03 26.50	do	Do.
Forbes	15 27.87	01 38.94	do	Do.
Fort Hill, wharf, post	21 15.74	03 05.16	do	Do.
Fort Independence, flagstaff	20 18.90	00 44.92	do	Do.
Foster Wharf, post	21 21.15	03 01.36	do	Do.
Foxboro:				
Baptist church, white spire	03 51.18	15 05.06	do	Do.
Orthodox church, dark spire	03 54.65	15 08.34	do	Do.
Fulton Wire Works, south chimney	20 08.04	03 29.56	do	Do.
Gambrel, roof, northeast gable	22 18.38	03 26.45	do	Do.
Gas works:				
Near Malden Bridge	23 18.75	04 29.70	do	Do.
North end of Boston	22 01.90	03 28.38	do	Do.
Ventilator	20 50.28	03 27.18	do	Do.
Glass works, east gable	22 22.65	04 41.86	do	Do.
Governors Island	21 08.31	00 39.03	do	Do.
Governors Island, 2	21 09.10	00 42.86	do	Do.
Governors Island, 3	21 08.84	00 41.12	do	Do.
Grand Junction, wharf	21 47.39	02 22.93	do	Do.
Grays Wharf, long brick building	22 09.48	03 16.38	do	Do.
Groton Hill	36 38.28	33 28.31	G. S.	Bull. 122.
Guide post, west end of milldam	20 55.63	05 51.00	C. & G. S.	Rept. '85.
High service	19 31.35	05 42.30	do	Do.
Hog Island tripod	23 39.16	00 39.69	do	Do.
Holmes factory	22 45.76	03 29.36	do	Do.
Holt	38 28.03	06 24.87	do	Do.
House on hill	34 51.96	59 02.35	G. S.	Bull. 122.
Hyde Park Catholic church	15 18.56	07 23.15	C. & G. S.	Do.
India wharf:				
Cupola	21 29.10	02 59.70	do	Rept. '85.
Post	21 28.04	02 59.09	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	71°-72°		
	° ' "	° ' "		
Iron smokestack.....	42 23 14.06	71 02 26.10	C. & G. S.	Rept. '85.
James and Pope's timber dock.....	20 32 51	02 39.68	do	Do.
Jerusalem.....	15 20.73	08 49.00	do	Do.
Jewish cemetery.....	15 35.37	09 15.07	do	Do.
Joe Rock.....	01 52.99	24 17.24	do	Do.
Lawrence School, cupola.....	20 28.78	03 12.88	do	Do.
Lewis Wharf, cupola.....	21 47.44	03 00.02	do	Do.
Lincoln Wharf, post.....	21 57.72	02 58.15	do	Do.
Long Wharf.....	21 37.65	02 53.75	do	Do.
Building, lightning rod.....	21 37.08	02 57.46	do	Do.
2, post.....	21 36.45	02 53.54	do	Do.
Loring's machine-shop wharf.....	20 31.60	02 02.70	do	Do.
Lowell:				
Depot, flagstaff.....	21 53.81	03 47.12	do	Do.
Draw, flagstaff.....	22 05.14	04 08.40	do	Do.
Roundhouse.....	22 09.74	04 23.39	do	Do.
Machine shop, tall chimney, on ridge-pole.....	20 28.60	03 59.10	do	Do.
Malden:				
Bridge.....	23 11.41	04 13.50	do	Do.
Bridge, yellow house, chimney at tall gable.....	23 34.58	04 09.58	do	Do.
Church, tall spire.....	25 38.84	04 01.56	do	Do.
Yellow spire.....	25 38.75	04 01.44	do	Do.
Mansfield, old Unitarian Church.....	01 23.43	13 04.03	do	Do.
Marine Hospital, flagstaff.....	23 21.22	02 43.70	do	Do.
Massachusetts north base.....	03 06.59	12 24.87	do	Do.
McLean Asylum, north dome.....	22 37.26	04 54.08	do	Do.
Medford:				
Tall square chimney near Malden bridge.....	24 52.20	06 31.54	do	Do.
Unitarian church.....	25 13.97	06 56.23	do	Do.
Milldam:				
Regatta house flagstaff.....	21 04.89	05 19.01	do	Do.
Yellow house, chimney.....	20 56.22	05 51.67	do	Do.
Miller River, head of church.....	22 44.08	05 48.79	do	Do.
Milton:				
Church.....	15 12.35	04 50.38	do	Do.
Old church.....	15 12.35	04 50.38	do	Do.
Mills, tall church spire.....	16 26.49	04 07.96	do	Do.
Mount Auburn.....	22 10.94	08 40.37	do	Do.
Mount Daniel.....	01 41.54	48 10.30	do	Do.
Mugget.....	08 02.12	57 26.24	do	Do.
National dock building.....	22 02.92	02 33.56	do	Do.
Naval Hospital.....	23 22.58	02 55.94	do	Do.
Navy-Yard:				
Battery.....	22 23.97	03 06.32	do	Do.
Chimney.....	22 30.04	03 09.16	do	Do.
Nealys House.....	21 22.37	06 27.13	do	Do.
Neponset church.....	17 11.62	07 52.87	do	Do.
New England Glass Company, chimney.....	22 21.35	04 40.31	do	Do.
North Brighton, dark spire.....	21 13.69	08 12.35	do	Do.
Northeast corner of Connecticut.....	01 24.82	48 04.20	do	Do.
Northwest corner of Rhode Island.....	00 29.15	47 58.92	do	Do.
Observatory.....	25 53.23	37 37.19	G. S.	Bull. 122,
Octagonal building.....	21 37.37	04 19.02	C. & G. S.	Rept. '85.
One-story red building.....	22 07.93	04 17.38	do	Do.
Organ factory.....	21 44.45	04 58.17	do	Do.
Outer Brewster.....	20 29.40	52 41.16	do	Do.
Otter street.....	21 21.48	04 24.90	do	Do.
Peck's chimney.....	22 51.09	03 03.64	do	Do.
Pepperell.....	42 12.64	35 12.59	do	Do.
Petty Rock.....	16 16.05	06 49.62	do	Do.
Planing mill, chimney.....	22 16.17	07 17.17	do	Do.
Point Curve.....	21 14.02	02 56.28	do	Do.
Poplar Hill, stone monument.....	44 11.56	15 20.30	do	Do.
Powderhorn.....	24 04.68	01 52.01	do	Do.
Powderhorn, 2.....	24 04.56	01 52.05	do	Do.
Powers and Melville's elevator.....	22 59.03	04 40.01	do	Do.
Prentice coal wharf, post.....	21 08.76	03 11.58	do	Do.
Prospect:				
Somerville.....	22 54.62	05 37.88	do	Do.
Waltham.....	23 18.83	15 15.33	do	Do.
Quincy, stone church.....	15 04.25	00 12.98	do	Do.
Red Brush.....	01 49.55	22 23.46	do	Do.
Reservoir.....	20 47.50	34 05.96	G. S.	Bull. 122,
Riverside Press, chimney.....	21 46.03	06 57.05	C. & G. S.	Rept. '85.
Roxbury:				
Dr. Putnam's church.....	19 47.81	05 24.96	do	Do.
Laboratory, chimney.....	19 24.52	05 52.98	do	Do.
Tall spire in Jamaica Plains.....	18 36.44	06 59.36	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	71°-72°		
Roxbury—Continued.				
New Unitarian church.....	42 19 42.11	71 04 51.72	C. & G. S.	Rept. '85.
Oil works, chimney.....	19 55.40	03 55.14	do.	Do.
Sailors' Home, cupola.....	21 19.10	03 08.40	do.	Do.
Sargent's Observatory.....	18 42.75	05 41.40	do.	Do.
South Bay, tripod.....	19 31.09	03 46.58	do.	Do.
Somerville:				
Church near Malden bridge.....	23 07.43	04 36.63	do.	Do.
Church on hill.....	23 12.18	05 52.37	do.	Do.
Red church.....	23 11.98	05 52.46	do.	Do.
South Boston:				
Dark spire, cross.....	20 31.87	03 24.44	do.	Do.
Point.....	20 13.02	01 33.45	do.	Do.
Reservoir.....	19 58.48	02 46.56	do.	Do.
Sea wall.....	21 18.40	02 43.48	do.	Do.
Squantum.....	18 13.89	00 41.57	do.	Do.
Standard sugar refinery.....	20 44.00	03 15.58	do.	Do.
Stone powder house.....	24 00.40	07 00.17	do.	Do.
Suffolk cordage factory, ball.....	19 38.04	04 20.24	do.	Do.
Summer.....	15 21.05	09 32.22	do.	Do.
Ten Hill farm, flag.....	23 50.88	05 15.26	do.	Do.
Thompson Island:				
Flag.....	19 14.60	00 16.12	do.	Do.
Pole near farm school.....	19 07.56	00 26.01	do.	Do.
Town Hill.....	38 15.54	59 05.39	G. S.	Bull. 122.
Tudor, cupola.....	22 14.98	03 39.81	C. & G. S.	Rept. '85.
Tuft College.....	24 26.84	07 13.85	do.	Do.
Turkey Hill.....	35 28.03	42 41.63	G. S.	Bull. 122.
Varnish factory, chimney.....	21 49.54	07 06.33	C. & G. S.	Rept. '85.
Wachusett:				
Chimney.....	29 21.28	53 15.13	G. S.	Bull. 122.
C. & G. S. station.....	29 20.78	53 13.98	do.	Do.
Waite, 1.....	26 00.83	03 57.96	C. & G. S.	Rept. '85.
Waite, 2.....	26 20.43	01 13.14	do.	Do.
Watertown Arsenal.....	21 42.72	09 45.97	do.	Do.
Watatick:				
C. & G. S. station.....	41 48.55	53 34.87	G. S.	Bull. 122.
State line.....	42 40.93	53 55.73	C. & G. S.	Rept. '85.
Tree.....	41 48.47	53 34.40	G. S.	Bull. 122.
Waverly House.....	22 17.56	03 46.42	C. & G. S.	Rept. '85.
Wellington Hill.....	16 59.24	05 44.08	do.	Do.
West Boston bridge, pole on draw.....	21 41.49	04 26.12	do.	Do.
West Cambridge, tall spire with clock.....	24 55.63	09 15.82	do.	Do.
Winnisimmet, church with clock.....	23 27.35	02 18.18	do.	Do.
Winslow's factory, corner.....	23 02.22	03 53.96	do.	Do.
	42°-43°	72°-73°		
Amherst:	42 22 15.30	72 31 07.00	do.	Do.
Agricultural College belfry.....	23 26.31	31 46.50	do.	Do.
Agricultural College drill-hall tower.....	23 17.06	31 43.56	do.	Do.
Agricultural College flagstaff.....	23 21.69	31 42.64	do.	Do.
City, Methodist church tower.....	24 50.34	30 32.79	do.	Do.
College Hall.....	22 22.02	31 14.42	do.	Do.
Congregational church spire.....	22 32.07	31 00.60	do.	Do.
Episcopal church spire.....	22 29.76	31 09.06	do.	Do.
Lawrence Observatory.....	22 17.06	31 10.05	do.	Do.
Walker Hall tower.....	22 18.21	31 02.82	do.	Do.
Williston Hall tower.....	22 17.76	31 06.59	do.	Do.
Battlecock.....	23 02.70	46 25.40	do.	Do.
Belchertown:				
Baptist church tower.....	16 40.81	24 04.66	do.	Do.
First Congregational church spire.....	16 42.68	24 05.98	do.	Do.
High School tower.....	16 37.90	24 11.95	do.	Do.
Methodist church tower.....	16 42.12	24 10.26	do.	Do.
Boundary Rock.....	01 53.84	16 18.42	do.	Do.
Brush.....	09 03.89	39 39.62	do.	Do.
Chestnut Hill.....	24 34.30	39 40.10	do.	Do.
Chicopee:				
French Catholic church spire.....	08 49.11	35 34.15	do.	Do.
Catholic church spire.....	08 40.28	36 20.25	do.	Do.
Skating rink spire.....	08 50.25	36 36.77	do.	Do.
Chicopee Falls:				
Congregational spire.....	09 25.06	34 51.70	do.	Do.
Catholic church spire.....	09 42.82	34 51.06	do.	Do.
Methodist church spire.....	09 25.50	35 00.37	do.	Do.
New Baptist church spire.....	09 26.08	34 54.10	do.	Do.
Town Hall spire.....	08 54.65	36 25.94	do.	Do.
Colonel Mountain.....	14 09.35	13 58.35	do.	Do.
Connecticut line, signal (Borden).....	01 55.98	20 46.14	do.	Do.
Connecticut River Lumber Co., chimney.....	17 29.65	37 14.30	do.	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	72°-73°		
Conway Township, southeast corner.	42 27 30.25	72 39 28.34	C. & G. S.	Rept. '85.
Craft	12 46.51	38 20.46	do.	Do.
Dickinson, flag in tree	25 31.50	30 26.60	do.	Do.
Dolbar Hill	32 45.62	03 30.40	G. S.	Bull. 122.
East bench mark	12 53.96	36 10.22	C. & G. S.	Rept. '85.
Easthampton:				
First Congregational church spire.	16 20.74	40 17.24	do.	Do.
Methodist church spire	16 15.79	40 22.28	do.	Do.
Payson Congregational church spire.	16 12.02	40 22.78	do.	Do.
Williston, Knight & Co., chimney.	16 00.90	40 11.40	do.	Do.
Williston Mills, tower	16 27.69	39 33.42	do.	Do.
Williston Seminary gymnasium, tower.	16 13.85	40 16.00	do.	Do.
Town Hall, tower	16 16.66	40 21.85	do.	Do.
East Longmeadow, Congregational spire.	03 51.49	30 45.62	do.	Do.
East tidal bench mark	12 53.95	36 10.40	do.	Do.
Facing Rock	13 08.84	27 35.00	do.	Do.
Feeding Hills	03 52.20	40 53.75	do.	Do.
Congregational spire	04 04.15	40 45.48	do.	Do.
Methodist spire	03 58.94	40 44.54	do.	Do.
Florence:				
Methodist church spire	20 07.10	40 25.20	do.	Do.
Engine-house tower	20 04.50	40 19.40	do.	Do.
Catholic church spire	19 56.78	40 07.03	do.	Do.
Congregational church spire	19 54.16	40 30.00	do.	Do.
Manufacturing Co.'s mill, tower ..	19 53.57	40 44.64	do.	Do.
School-house tower	19 51.98	40 33.41	do.	Do.
Granby, Congregational church spire.	15 22.87	31 04.12	do.	Do.
Hadley:				
First Congregational church spire	20 30.88	35 20.81	do.	Do.
Second Congregational church spire.	20 33.90	35 47.72	do.	Do.
Hatchet	01 39.60	04 46.74	do.	Do.
Hatfield:				
Congregational church spire	22 13.68	35 50.97	do.	Do.
Smith Academy, tower	22 15.68	35 44.70	do.	Do.
Hawes Hill	27 26.43	07 07.18	do.	Do.
Haydensville:				
Catholic church spire	22 22.87	41 53.70	do.	Do.
Congregational church spire	21 15.34	41 39.08	do.	Do.
High Ridge Hill	26 55.14	43 06.66	do.	Do.
Hilliard Knob	18 20.23	30 38.37	do.	Do.
Hitchcock	05 07.39	15 35.43	do.	Do.
Holland House, chimney	05 05.04	42 14.89	do.	Do.
Holyoke:				
City Hall tower	12 24.32	30 28.10	do.	Do.
Engine-house tower	12 46.50	37 31.98	do.	Do.
First Congregational belfry	12 41.16	37 49.36	do.	Do.
Windsor Hotel tower	12 23.07	36 22.72	do.	Do.
St. Jerome's Catholic spire	12 34.10	36 31.76	do.	Do.
Second Baptist tower	12 24.78	36 48.58	do.	Do.
Second Congregational tower	12 18.36	36 39.50	do.	Do.
Indian Orchard, church spire	09 32.02	30 07.04	do.	Do.
Jenksville, church tower	09 31.91	29 06.70	do.	Do.
Jenksville, church tower, 2	09 30.19	28 58.94	do.	Do.
Ludlow, Methodist tower	11 29.10	27 09.72	do.	Do.
Leverett, Congregational church spire.	27 07.80	30 06.90	do.	Do.
Longmeadow, Congregational church spire.	03 00.83	34 56.24	do.	Do.
McCarthy	04 13.05	30 17.18	do.	Do.
Mount Esther	27 10.19	39 54.64	do.	Do.
Mount Holyoke Hotel, flagstaff ..	18 02.10	35 17.70	do.	Do.
Mount Lincoln	21 49.38	25 24.53	do.	Do.
Mount Toby	29 16.32	32 16.28	do.	Do.
Mount Tom	14 30.80	38 55.06	do.	Do.
Mount Warner	22 48.40	34 22.20	do.	Do.
New Braintree, Congregational church spire	19 01.16	07 35.90	do.	Do.
Nonotuck Hotel, tower	16 47.86	37 15.20	do.	Do.
North Amherst, Congregational church spire.	24 36.74	31 52.29	do.	Do.
North Base	28 46.15	36 43.57	do.	Do.
North Hadley, Congregational church spire.	23 19.70	34 52.10	do.	Do.
Northampton:				
Lunatic Asylum tower	18 52.16	38 51.00	do.	Do.
Catholic church tower	19 38.61	38 02.98	do.	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° / "	72°-73° ° / "		
Northampton—Continued.				
Episcopal church tower.....	42 19 16.38	72 37 42.57	C. & G. S.	Rept. '85.
First Congregational church spire.....	19 09.25	37 53.14	do	Do.
Methodist church spire.....	19 10.72	37 59.58	do	Do.
Round Hill flagstaff.....	19 27.53	38 22.38	do	Do.
Second Congregational church spire.....	19 04.62	38 04.32	do	Do.
North Warner.....	22 56.00	34 17.60	do	Do.
Packard.....	27 40.64	21 11.09	do	Do.
Palmer, Universalist church spire.....	09 28.06	19 35.91	do	Do.
Peaked Mountain.....	02 50.94	20 26.20	do	Do.
Pelham, church spire.....	23 32.30	24 17.34	do	Do.
Rattle, flag in tree.....	01 59.08	24 28.67	do	Do.
Rattlesnake.....	01 59.58	24 28.60	do	Do.
Rock Rimmon.....	14 23.14	26 29.07	do	Do.
Secondary signal.....	02 23.04	54 07.82	do	Do.
Shingle Hill.....	23 23.30	41 59.50	do	Do.
Shutesbury:				
Congregational church spire.....	27 11.85	24 37.34	do	Do.
Baptist church spire.....	27 10.31	24 36.46	do	Do.
House, chimney.....	27 42.20	24 41.61	do	Do.
South Amherst, church spire.....	20 25.45	30 13.94	do	Do.
South Deerfield, Congregational church spire.....	28 44.71	36 27.16	do	Do.
South Hadley, Congregational church spire.....	15 31.59	34 31.26	do	Do.
South Hadley Falls:				
Catholic church spire.....	13 13.03	36 05.58	do	Do.
Congregational church spire.....	12 58.25	35 56.56	do	Do.
Methodist church spire.....	13 00.92	35 56.42	do	Do.
Female Seminary Observatory.....	15 21.78	34 40.88	do	Do.
Springfield:				
Arsenal, clock tower.....	06 26.48	34 54.70	do	Do.
Court-house tower.....	06 01.48	35 21.02	do	Do.
First Baptist church spire.....	06 10.88	35 04.19	do	Do.
Florence Street Methodist church spire.....	06 01.11	34 03.72	do	Do.
Hope Congregational church tower.....	06 38.69	33 55.63	do	Do.
North Congregational church spire.....	06 21.77	35 13.45	do	Do.
St. Joseph's Catholic church spire.....	06 06.63	35 10.64	do	Do.
South Congregational church spire.....	06 08.04	35 00.10	do	Do.
St. Michael's church spire.....	06 15.20	35 05.10	do	Do.
State Street Methodist church spire.....	06 19.18	34 53.36	do	Do.
Water-shops tower.....	05 51.94	33 50.44	do	Do.
Sugarloaf Hotel:				
South chimney.....	28 13.00	35 32.98	do	Do.
North chimney.....	28 13.30	35 33.08	do	Do.
Sunderland:				
Schoolhouse tower.....	28 02.32	34 44.74	do	Do.
Congregational church tower.....	27 57.91	34 49.70	do	Do.
Three Rivers, French Catholic church spire.....	11 00.72	21 21.30	do	Do.
Tuft Hill.....	19 01.54	05 04.56	do	Do.
Two Tree.....	39 10.99	08 40.19	G. S.	Bull. 122.
Ward Hill.....	34 12.13	10 24.85	do	Do.
Warwick (Borden).....	43 21.57	19 14.26	C. & G. S.	Rept. '85.
West bench mark.....	12 44.22	36 14.10	do	Do.
West Hampton, Congregational church spire.....	18 16.57	46 32.39	do	Do.
West Springfield, First Congrega- tional church spire.....	06 52.18	37 31.94	do	Do.
Whately Congregational church spire.....	26 17.10	38 07.40	do	Do.
White, flag in tree.....	12 02.27	29 47.53	do	Do.
Wigwam.....	06 26.00	24 45.10	do	Do.
Wilbraham:				
Congregational church spire.....	07 16.48	25 54.87	do	Do.
Rich Hall, tower.....	07 27.68	25 55.10	do	Do.
	42°-43° ° / "	73°-74° ° / "		
Alander Mountain.....	42 05 15.06	73 30 18.72	do	Do.
Bald Peak.....	06 07.30	25 59.11	do	Do.
Brace Mountain.....	02 39.91	29 34.88	do	Do.
Corner stone, southwest corner of State.....	02 58.38	29 15.96	do	Do.
Dome Peak.....	06 07.30	25 59.11	do	Do.
French Hill.....	25 38.46	02 16.44	do	Do.
Greylock.....	38 14.09	09 59.13	do	Do.
Iron Bolt.....	02 58.67	29 42.62	do	Do.
Perry Peak.....	25 15.65	22 48.78	do	Bull. 122.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	73°-74°		
	° ' "	° ' "		
Ryant Bush.....	42 03 04.05	73 28 56.63	C. & G. S.	Bull. 122.
Washington spire.....	21 57.78	08 39.78	do	Do.
	41°-42°	69°-70°		
Basin.....	41 39 48.50	69 56 41.66	do	Rept. '85.
Camp.....	43 59.58	59 33.25	do	Do.
Chatham.....	41 50.70	58 48.38	do	Do.
Congregational church spire.....	40 58.54	57 41.72	do	Do.
Flagstaff.....	40 43.77	57 23.51	do	Do.
North light-house.....	40 18.28	57 01.27	do	Do.
South light-house.....	40 17.30	57 01.50	do	Do.
Spire.....	41 02.79	57 39.96	do	Do.
Cove.....	36 56.18	58 35.17	do	Do.
Crows Lookout.....	43 06.96	58 25.46	do	Do.
Cumming flagstaff.....	47 12.17	57 04.36	do	Do.
Eastham, Congregational church spire.....	50 28.28	58 54.33	do	Do.
Eldridge.....	44 34.88	58 39.69	do	Do.
Harding Beach.....	39 31.55	59 03.16	do	Do.
Lombard Head.....	55 51.66	58 51.02	do	Do.
Marsh.....	43 51.92	55 39.55	do	Do.
Mayo.....	46 00.17	57 10.44	do	Do.
Monomoy.....	35 37.60	59 03.36	do	Do.
Light-house.....	33 33.78	59 39.02	do	Do.
Morris Island.....	39 29.48	57 34.14	do	Do.
Mosquito.....	39 28.91	57 32.60	do	Do.
Namequoit.....	45 26.74	57 42.48	do	Do.
Nauset:				
Beach.....	44 05.66	55 34.32	do	Do.
Center light-house.....	51 38.63	57 05.42	do	Do.
Harbor.....	47 22.72	56 46.80	do	Do.
Old Harbor.....	42 19.94	59 01.11	do	Do.
Orleans, Orthodox church spire.....	47 04.86	58 30.20	do	Do.
Pine.....	40 08.56	59 35.48	do	Do.
Pleasant Bay.....	44 34.89	58 39.64	do	Do.
Pochet.....	46 39.98	56 26.09	do	Do.
Sampson.....	45 21.74	57 00.43	do	Do.
Sankaty Head.....	16 59.91	57 53.41	do	Do.
Sankaty Head light-house.....	17 01.21	57 56.52	do	Do.
Shells.....	57 52.80	57 41.45	do	Do.
Sipson Island.....	44 09.28	57 52.03	do	Do.
South Wellfleet:				
Congregational church belfry.....	54 32.07	59 07.10	do	Do.
Methodist meetinghouse.....	54 24.54	59 07.72	do	Do.
Squam Head.....	19 33.48	59 56.05	do	Do.
Stage Harbor light-house.....	39 31.55	59 03.16	do	Do.
Strong.....	43 12.48	57 29.61	do	Do.
	41°-42°	70°-71°		
Aldin.....	41 49 48.33	70 57 02.79	do	Do.
Angelica Point.....	38 28.97	45 55.35	do	Do.
Atwood.....	45 11.39	04 24.31	do	Do.
Back River Harbor.....	43 18.58	36 50.49	do	Do.
Barnstable.....	41 48.82	18 25.58	do	Do.
West spire.....	41 54.89	23 03.28	do	Do.
Court-house.....	42 06.02	18 17.64	do	Do.
Light-house.....	43 21.16	16 53.34	do	Do.
Unitarian spire.....	42 02.46	17 57.67	do	Do.
Bass Hole.....	42 49.98	14 15.54	do	Do.
Bass River.....	38 38.44	12 12.13	do	Do.
Light-house.....	39 06.44	10 10.84	do	Do.
Billingsgate light-house.....	52 18.22	04 09.87	do	Do.
Bird Island light-house.....	40 09.65	43 01.14	do	Do.
Bishop and Clerks.....	34 27.44	15 01.96	do	Do.
Light-house.....	34 27.52	15 02.04	do	Do.
Blackfish Creek.....	54 28.86	01 04.80	do	Do.
Bluff (Nantucket).....	17 31.40	06 26.77	do	Do.
Bourne Hill.....	44 00.82	29 11.63	do	Do.
Bowman Hill observatory.....	32 38.10	36 04.32	do	Do.
Bowman Point.....	32 36.46	36 05.84	do	Do.
Brant Point light-house.....	17 23.20	05 34.61	do	Do.
Brewster.....	46 12.76	04 46.46	do	Do.
Unitarian church spire.....	45 43.24	04 57.32	do	Do.
Cambria.....	59 14.88	00 45.13	do	Do.
Cape Poge.....	25 11.50	27 03.75	do	Do.
Light-house.....	25 16.03	27 05.70	do	Do.
Centerville church.....	38 44.94	20 49.27	do	Do.
Charles Neck.....	40 21.61	44 45.04	do	Do.
Clark Cove.....	15 20.47	10 43.16	do	Do.
Clark Point.....	35 34.15	54 03.69	do	Do.
Light-house.....	35 34.28	54 03.91	do	Do.
Coatue Point.....	19 06.62	02 57.07	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.			Longitude.			Authority.	Reference.
	°	'	"	°	'	"		
Coatue Point, 2	41	18	05.39	70	04	39.87	C. & G. S.	Rept. '85.
Collier Ledge		35	48.36		21	06.69	do.	Do.
Cotuit Neck		35	31.16		26	44.25	do.	Do.
Cromeset Neck		43	41.74		43	20.57	do.	Do.
Cuttyhunk		25	14.89		56	02.65	do.	Do.
Light-house		24	52.36		57	00.18	do.	Do.
Davis Hill		31	24.30		39	39.24	do.	Do.
Davis Neck		32	54.42		33	48.63	do.	Do.
Desert Hill		29	28.73		44	21.35	do.	Do.
Dumpling Rock (Round Hill) light-house.		32	17.88		55	19.09	do.	Do.
Duxbury Pier light-house		59	14.94		38	56.57	do.	Do.
East Chop		28	04.80		33	50.91	do.	Do.
Telegraph		28	04.72		33	49.00	do.	Do.
Light-house		28	13.44		34	04.96	do.	Do.
East Chop, 2		28	04.63		33	50.90	do.	Do.
East Scargo (Borden)		44	00.87		10	16.39	do.	Do.
East Plymouth		52	58.09		32	01.74	do.	Do.
Eastham		49	26.09		00	14.92	do.	Do.
Edgartown		23	51.77		32	55.96	do.	Do.
Light-house		23	27.29		30	12.76	do.	Do.
Spire		23	18.64		30	55.88	do.	Do.
Eel River, steeple		56	15.18		37	49.12	do.	Do.
Fair Haven, black spire		38	09.81		54	18.85	do.	Do.
Falmouth		35	53.11		37	05.48	do.	Do.
Spire		33	14.95		37	12.52	do.	Do.
Fish-house, north gable		38	19.40		10	38.15	do.	Do.
Folger, astronomic station		17	16.94		06	16.56	do.	Do.
Forked Pond		14	15.94		01	03.65	do.	Do.
Further Creek		16	39.72		14	06.85	do.	Do.
Gay Head		20	50.30		50	13.96	do.	Do.
Light-house		20	54.59		50	07.58	do.	Do.
German Hill		41	27.96		12	35.98	do.	Do.
Gibb Pond		16	53.65		01	31.46	do.	Do.
Great Hill		42	33.28		43	20.44	do.	Do.
Great Point (Nantucket) light-house.		23	24.34		02	46.06	do.	Do.
Great Rock, spindle		37	03.52		17	10.38	do.	Do.
Griffin Island		56	14.37		04	06.05	do.	Do.
Hamblin Hill		41	49.93		24	13.64	do.	Do.
Hamblin Mound		56	14.18		02	47.46	do.	Do.
Harwich belfry		41	12.39		04	35.97	do.	Do.
Harwich Port		39	51.30		04	06.57	do.	Do.
Herring Pond		20	47.35		31	34.16	do.	Do.
Highland House, north tower		27	50.26		33	36.17	do.	Do.
Hog Island Harbor		36	15.84		38	57.00	do.	Do.
Holmes		55	26.56		32	39.02	do.	Do.
Holmes Hole (or West Chop) light-house.		28	51.06		36	00.96	do.	Do.
Holmes Hole		28	57.66		36	10.78	do.	Do.
Holmes Hole, spire		27	15.15		36	20.18	do.	Do.
Hopkins		46	02.05		02	51.54	do.	Do.
Hyannis		37	53.34		18	26.67	do.	Do.
West spire		39	05.77		17	15.21	do.	Do.
Light-house		38	10.79		17	20.20	do.	Do.
Universalist spire.		39	14.38		16	56.08	do.	Do.
Indian		25	46.74		40	40.70	do.	Do.
Brook		51	30.36		00	23.41	do.	Do.
Hill		52	58.13		32	01.75	do.	Do.
Neck		43	33.27		41	27.05	do.	Do.
Kingston		58	53.29		41	54.63	do.	Do.
Kingston spire		59	36.08		43	52.77	do.	Do.
Kotayma House, north tower		21	30.10		30	19.67	do.	Do.
Long Neck		44	20.21		38	45.42	do.	Do.
Mannerson		41	31.14		12	16.86	do.	Do.
Manomet		55	38.70		35	28.13	do.	Do.
Marston Mill		38	49.68		24	56.98	do.	Do.
Mattapoissett, gray spire		39	43.93		49	12.28	do.	Do.
Mattapoissett Neck		37	46.57		48	11.30	do.	Do.
Mayo Beach light-house		55	49.82		02	05.66	do.	Do.
Menauhant Hotel, west chimney		33	01.00		33	09.76	do.	Do.
Menauhant Landing, flagstaff		32	59.68		33	08.92	do.	Do.
Mendal (Borden)		42	03.03		53	00.02	do.	Do.
Mill Hill		46	34.14		00	06.97	do.	Do.
Mishaum Point		30	56.11		57	18.44	do.	Do.
Monaunt Hill		33	05.51		32	32.48	do.	Do.
Monks Hill		57	39.11		43	23.40	do.	Do.
Monument church		44	32.45		35	49.73	do.	Do.
Muskeget Island		20	14.11		17	58.47	do.	Do.
Nantucket:								
Baptist church		16	52.66		06	07.00	do.	Do.
Great Point light-house		23	24.34		02	46.06	do.	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° ' ''	70°-71° ° ' ''		
Nantucket—Continued.				
North towered church	41 17 09.94	70 06 08.22	C. & G. S.	Rept. '85.
Cliff Range beacon (rear)	17 35.55	06 25.10	do	Do.
Cliff	17 35.81	06 53.79	do	Do.
South towered Unitarian church.	16 56.72	05 58.09	do	Do.
Range beacon	16 23.92	04 42.86	do	Do.
Nashaquitsa Cliff	20 00.34	44 27.30	do	Do.
Nashawena	25 30.97	52 06.61	do	Do.
Naushon	29 25.03	44 33.38	do	Do.
Southwest	27 01.82	47 19.97	do	Do.
Northeast	30 35.72	42 48.91	do	Do.
Ned Point light-house	39 03.34	47 46.11	do	Do.
New Bedford:				
Court-house	38 03.72	55 52.96	do	Do.
Baptist church	38 12.37	55 36.98	do	Do.
Beacon	36 33.62	53 28.73	do	Do.
Fort	37 27.06	54 10.37	do	Do.
New Falmouth	33 42.42	37 52.42	do	Do.
Nobska Point light-house	30 57.24	39 20.20	do	Do.
No Man's Land	15 11.70	48 49.20	do	Do.
North Dennis	44 42.24	12 29.82	do	Do.
Gray spire	44 14.85	11 32.53	do	Do.
White spire	44 13.77	11 35.41	do	Do.
North Dennis, 2	43 29.20	12 04.70	do	Do.
North Falmouth, spire	38 33.32	37 07.29	do	Do.
North Plymouth Rope Works	58 47.50	41 20.16	do	Do.
North Pond	17 38.41	10 32.15	do	Do.
North Wellfleet:				
Methodist belfry	56 19.66	01 48.95	do	Do.
Congregational belfry	56 09.64	01 16.48	do	Do.
Orleans	47 32.47	00 51.46	do	Do.
Orleans, 2	47 32.59	00 51.63	do	Do.
Osterville	37 52.16	22 57.14	do	Do.
Spire	37 42.08	23 09.29	do	Do.
Osterville Point	37 02.13	22 10.70	do	Do.
Padanaram	35 39.27	56 35.73	do	Do.
Gray spire	35 20.12	56 28.07	do	Do.
Palmer Island light-house	37 37.27	54 34.72	do	Do.
Pamanset River	31 41.30	59 30.99	do	Do.
Pasque	26 57.82	50 04.43	do	Do.
Peaked Cliff	48 31.38	32 25.06	do	Do.
Penikese	26 58.17	55 26.91	do	Do.
Pigeon Hill	50 58.24	59 44.57	do	Do.
Pine Hill	42 31.13	33 58.63	do	Do.
Plymouth	57 24.78	40 07.93	do	Do.
National monument	57 36.69	40 34.87	do	Do.
Pier head	58 46.50	39 13.38	do	Do.
Court-house	57 26.37	40 02.23	do	Do.
Cliff	49 40.62	32 37.24	do	Do.
Pocasset, spire	41 41.55	36 18.28	do	Do.
Point Gammon	37 04.96	15 39.32	do	Do.
Point Gammon, 2	37 04.96	15 39.32	do	Do.
Point Gammon light-house	36 35.00	16 00.19	do	Do.
Prospect Chilmark	21 56.84	44 51.05	do	Do.
Prospect House, cupola flagstaff	26 41.34	34 45.39	do	Do.
Rock Point	46 12.95	04 46.02	do	Do.
Round Hill	32 24.79	55 50.59	do	Do.
Round Hill (Dumpling Rock), light-house.	32 17.88	55 19.09	do	Do.
Sampson (Marthas Vineyard)	22 41.51	29 02.66	do	Do.
Sandwich, Orthodox church	45 28.35	30 00.45	do	Do.
Scargo	44 22.48	10 49.82	do	Do.
Schaum	45 25.10	30 49.98	do	Do.
Scouticut Neck	35 02.65	51 20.39	do	Do.
Scorton Hill	43 17.26	23 41.43	do	Do.
Scorton Neck	44 19.13	24 41.19	do	Do.
Scraggy Neck	39 59.28	39 15.57	do	Do.
Sears	44 38.30	07 57.09	do	Do.
Seaview House, north tower	27 28.54	33 23.06	do	Do.
Shawankemo	17 01.80	03 04.82	do	Do.
Shootflying	41 07.33	20 49.74	do	Do.
Sippican church	42 09.92	45 47.88	do	Do.
Sippican Neck	40 35.93	42 58.05	do	Do.
South Dennis	39 08.59	08 12.40	do	Do.
North spire	40 34.25	09 24.40	do	Do.
South spire	40 21.64	09 23.64	do	Do.
South Pocasset spire	40 36.28	36 22.83	do	Do.
Spring Hill Academy	44 58.86	27 36.58	do	Do.
Succunneset	33 31.43	28 36.29	do	Do.
Sursuit Creek	45 32.41	08 37.40	do	Do.
Swift Hill	34 02.46	38 30.70	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° / "	70°-71° ° / "		
Tarpaulin Cove light-house.....	41 28 07.90	70 45 28.74	C. & G. S.	Rept. '85.
Tempes Knob.....	42 58.46	39 48.84	do	Do.
Truro, Congregational church spire.....	59 54.06	03 18.44	do	Do.
Tuckamuck telegraph.....	18 14.51	15 08.47	do	Do.
Union chapel.....	27 16.82	33 31.05	do	Do.
Wareham Baptist church.....	45 27.19	43 03.63	do	Do.
Watcha.....	20 52.19	36 38.35	do	Do.
Weeweeder Pond.....	14 35.28	05 37.92	do	Do.
Wenauet Neck.....	40 58.14	39 41.00	do	Do.
West Chatham.....	40 09.42	01 42.19	do	Do.
West Chop.....	28 54.29	36 18.04	do	Do.
West Chop (Holmes Hole) light-house.....	28 51.06	36 00.96	do	Do.
West Chop, 2.....	28 52.61	35 58.26	do	Do.
West Island.....	34 56.62	49 20.79	do	Do.
West Island, 2.....	35 25.09	49 04.85	do	Do.
West Yarmouth, spire.....	38 59.08	13 46.73	do	Do.
Wild Harbor.....	38 22.19	39 09.05	do	Do.
Windmill Range.....	16 40.22	06 49.57	do	Do.
Wing Neck light-house.....	40 49.38	39 41.75	do	Do.
Wolasha Hill.....	20 29.02	48 38.50	do	Do.
Woods Hole.....	31 38.80	39 41.58	do	Do.
Episcopal church.....	31 19.86	39 48.10	do	Do.
Yarmouth Port, spire.....	42 24.82	14 37.13	do	Do.
	41°-42° ° / "	71°-72° ° / "		
Alex.....	41 54 07.08	71 03 34.97	do	Do.
Almy.....	30 42.29	01 49.85	do	Do.
Attleboro.....	56 54.14	17 22.60	do	Do.
Assonet.....	47 25.35	05 56.88	do	Do.
Spire.....	47 45.95	04 08.00	do	Do.
Flat-topped church, west gable chimney.....	47 30.26	04 15.24	do	Do.
Bare top.....	48 52.85	06 00.44	do	Do.
Beacon.....	42 16.82	10 29.71	do	Do.
Beveled barn.....	50 12.73	07 09.14	do	Do.
Birch.....	52 08.52	05 04.66	do	Do.
Blackbeard.....	40 28.88	10 58.83	do	Do.
Bluff (Taunton River).....	45 54.52	07 49.70	do	Do.
Bradford.....	54 17.32	04 38.04	do	Do.
Briggs (Taunton River).....	54 56.20	03 49.46	do	Do.
Brown Hill (Taunton River).....	47 25.29	06 27.65	do	Do.
Bryant Hill.....	49 39.79	04 43.71	do	Do.
Burns.....	44 26.70	08 52.72	do	Do.
Burt.....	51 28.72	05 49.61	do	Do.
Canonicus.....	53 10.26	02 47.30	do	Do.
Calvary.....	43 40.82	08 05.04	do	Do.
Carpenter.....	51 36.08	05 33.64	do	Do.
Chase.....	40 23.92	11 16.46	do	Do.
City.....	41 43.77	10 19.09	do	Do.
Clark.....	51 52.70	05 13.14	do	Do.
Copecut.....	43 17.24	03 36.64	do	Do.
Cord.....	53 56.12	02 36.60	do	Do.
Cupola.....	52 31.55	05 48.05	do	Do.
Dartmouth.....	34 11.59	01 47.54	do	Do.
Dean.....	54 37.32	04 15.35	do	Do.
Depot.....	46 31.09	07 15.07	do	Do.
Dodge's stable, turret.....	40 56.33	10 40.24	do	Do.
Durfees, cupola.....	42 36.36	09 04.82	do	Do.
Eddy.....	54 24.83	03 58.18	do	Do.
Eldridge.....	31 46.11	05 08.27	do	Do.
Elisha.....	53 58.58	02 23.21	do	Do.
Elm.....	53 51.72	02 17.50	do	Do.
Fall River.....	42 30.25	08 45.54	do	Do.
Derrick.....	42 19.32	09 56.72	do	Do.
Tower.....	42 00.87	09 25.42	do	Do.
Spire.....	42 06.87	09 15.00	do	Do.
Fall River, 2.....	42 39.74	08 45.38	do	Do.
Ferry wharf, chimney.....	42 34.30	10 46.90	do	Do.
Frederick.....	53 41.36	04 27.12	do	Do.
Florence.....	50 45.03	06 53.03	do	Do.
French.....	53 35.60	05 34.67	do	Do.
Gardner Neck.....	42 33.74	12 24.81	do	Do.
George.....	53 17.58	02 48.11	do	Do.
Globe village, chimney.....	41 17.27	10 23.84	do	Do.
Gooseberry Neck.....	29 20.08	02 19.61	do	Do.
Grave.....	54 04.71	02 38.62	do	Do.
Graveyard.....	49 34.48	07 28.94	do	Do.
Great Rock.....	51 32.36	17 15.47	do	Do.
Great Meadow.....	52 45.14	13 02.29	do	Do.
Hall.....	54 22.37	04 16.29	do	Do.
Hampden.....	53 20.15	02 23.86	do	Do.

MASSACHUSETTS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° ' "	71°-72° ° ' "		
Hatch (Taunton River)	41 53 01.44	71 05 13.98	C. & G. S.	Rept. '85.
Henry	54 23.12	03 12.80	do	Do.
Herbert	51 45.41	05 46.99	do	Do.
Herring River, spire	40 13.01	07 02.58	do	Do.
High	50 57.52	06 29.89	do	Do.
Hoppin Hill	57 52.71	20 52.27	do	Do.
Hunt	52 38.99	05 30.23	do	Do.
Jesse	53 11.99	02 19.21	do	Do.
Johnson	53 20.81	04 43.52	do	Do.
Joe Sandford	35 37.56	07 55.53	do	Do.
Kimball	53 48.39	02 27.11	do	Do.
King	54 22.66	03 49.49	do	Do.
King Rock	45 22.82	16 17.27	do	Do.
Mack	47 30.09	07 02.32	do	Do.
Maplewood	53 27.74	02 12.91	do	Do.
Marsh (Taunton River)	47 38.18	07 33.80	do	Do.
Martin	54 23.42	03 28.48	do	Do.
Mason	54 29.24	04 11.14	do	Do.
Massachusetts south base	54 49.92	18 16.11	do	Do.
Mattapoisett	42 40.47	12 51.76	do	Do.
Meadow	51 11.22	06 11.96	do	Do.
New	49 33.06	06 58.42	do	Do.
Nichols	48 25.97	06 59.36	do	Do.
Nootas	32 13.02	07 25.83	do	Do.
North Dighton	51 14.52	06 39.39	do	Do.
Norton, dark-red spire	58 10.49	10 55.37	do	Do.
Oak Hill	54 51.24	16 43.23	do	Do.
Padelford	54 08.02	03 12.26	do	Do.
Pine (Taunton River)	54 12.54	02 58.18	do	Do.
Quicksand	30 01.73	07 12.18	do	Do.
Quicksand, 2	29 56.40	07 09.16	do	Do.
Richmond Hill	48 27.29	07 43.35	do	Do.
Ridge	45 33.46	07 10.98	do	Do.
River	51 36.08	06 17.02	do	Do.
Roach	54 08.44	02 27.97	do	Do.
Rockheap	53 44.16	02 12.70	do	Do.
Sassacus	53 19.88	02 35.87	do	Do.
Schoolhouse Hill	50 01.41	06 17.56	do	Do.
Slade	43 41.20	10 09.12	do	Do.
Somerset	44 07.60	10 06.49	do	Do.
Meetinghouse	44 11.54	10 06.89	do	Do.
Spire	46 17.88	07 38.87	do	Do.
Somerset, 2	43 44.05	10 08.16	do	Do.
Squawbetty	53 20.27	02 05.70	do	Do.
White spire	52 57.37	01 39.97	do	Do.
Nail factory	53 12.16	01 54.03	do	Do.
Steep Brook	44 56.97	07 23.16	do	Do.
Steep Brook, church	44 30.40	07 46.13	do	Do.
Stonewall	53 34.08	02 04.19	do	Do.
Swansey belfry	45 08.22	13 30.90	do	Do.
Sycamore	53 37.91	02 20.91	do	Do.
Taunton:				
Unitarian Church	54 04.57	05 19.92	do	Do.
Iron works, chimney	52 54.11	05 38.55	do	Do.
Telegraph	50 59.36	06 50.33	do	Do.
Terry	46 31.46	06 43.07	do	Do.
Thrasher	52 22.47	05 16.73	do	Do.
Verification:				
South base	50 13.04	21 28.68	do	Do.
North base	54 25.94	21 20.68	do	Do.
Walker	54 23.22	02 57.83	do	Do.
Washburn	53 25.41	01 56.49	do	Do.
Water tower	59 46.52	19 21.66	do	Do.
Waterworks	54 11.20	03 50.62	do	Do.
Weetamoo	53 08.54	02 30.19	do	Do.
Wilbur	54 40.30	05 11.67	do	Do.
Williams	52 43.06	05 52.70	do	Do.
Whitmore	52 12.51	05 31.91	do	Do.
Wood	45 03.10	08 27.35	do	Do.
Woods	54 19.08	02 44.92	do	Do.

RHODE ISLAND.

Name.	Latitude.		Longitude.		Authority.	Reference.
	41°-42° "	"	71°-72° "	"		
Achilles	41	19 15.35	71	48 47.54	C. & G. S.	Rept. '85.
Ajax		20 35.86		41 17.40	do	Do.
Aldrich		50 23.92		40 11.00	do	Bull. 122.
Anderson, barn cupola		33 41.81		17 23.46	do	Rept. '85.
Anthony		38 46.35		13 18.64	do	Do.
Mill		41 47.30		32 47.82	do	Bull. 122.
Apponaug, spire		41 55.84		27 30.08	do	Rept. '85.
Arnold		45 14.48		23 41.75	do	Do.
Austin		24 25.28		28 44.90	do	Do.
Babcock		42 44.36		18 24.80	do	Do.
Bulch, house, north chimney		29 00.51		16 20.91	do	Do.
Barber Height		31 44.87		25 28.10	do	Do.
Barker		38 23.01		12 06.65	do	Do.
Barn cupola		32 08.72		22 36.98	do	Do.
Barn, white cupola		42 22.66		16 55.43	do	Do.
Barn, west gable		28 35.10		23 28.36	do	Do.
Batty		32 13.24		22 36.23	do	Do.
Farm		45 34.90		24 35.80	do	Do.
Beaconpole		59 42.47		27 01.26	do	Do.
Beaconpole (Borden)		00 03.26		26 43.16	do	Do.
Beavertail, light-house		26 56.86		23 59.42	do	Do.
Do		26 57.89		23 59.57	do	Do.
Bentley		21 51.91		45 33.28	do	Do.
Big Hill		23 26.36		46 08.49	do	Do.
Block Island		10 32.08		35 30.64	do	Do.
Derrick		09 10.01		33 08.80	do	Do.
North light-house (1874)		13 39.66		34 34.74	do	Do.
North light-house (1838)		13 29.15		34 33.05	do	Do.
Southeast light-house (1875)		09 10.12		33 08.39	do	Do.
Border Hill, topographical pole		23 26.74		38 29.70	do	Do.
Boston Neck		28 19.08		26 05.43	do	Do.
Bristol:						
Court-house		40 12.66		16 25.67	do	Do.
Methodist church		40 15.39		16 31.88	do	Do.
Broad Hill		24 39.95		33 42.82	do	Do.
Brown (E.), house chimney		19 54.22		45 25.62	do	Do.
Brown (E.), house cupola		45 04.44		23 24.20	do	Do.
Browning, house chimney		32 00.82		25 49.54	do	Do.
Browning (W.T.), house, center chimney		23 12.44		34 36.28	do	Do.
Bullock Neck (Borden)		44 42.27		21 35.11	do	Do.
Bullock Neck		44 42.90		21 27.69	do	Do.
Bullock Neck, 2		44 43.00		21 35.16	do	Do.
Bunker Hill		23 10.16		39 16.35	do	Do.
Bushy Hill		12 43.99		33 40.56	do	Do.
Buttonwood House, cupola		41 19.12		25 58.28	do	Do.
Butts		36 55.84		15 06.56	do	Do.
Butts, 2		36 55.74		15 07.48	do	Do.
Calf Pasture Point		37 40.62		24 18.99	do	Do.
Castle Hill		27 53.02		21 28.80	do	Do.
Castle Island Beacon (1843)		39 13.97		17 12.20	do	Do.
Champlin		29 16.00		46 47.77	do	Do.
Do		29 16.04		46 47.91	G. S.	Bull. 122.
Church Point		30 00.12		12 23.96	C. & G. S.	Rept. '85.
Church Point, 2		30 09.92		12 21.01	do	Do.
Coal Mines, middle chimney		37 09.94		16 26.83	do	Do.
College Hill		50 18.85		24 00.63	do	Do.
Commons		21 15.21		43 54.70	do	Do.
Conanicut, north		34 24.86		22 19.87	do	Do.
Conimicut		43 01.67		21 29.44	do	Do.
Cormorant Hill		23 37.22		49 03.45	do	Do.
Cornell		37 18.96		09 16.52	do	Do.
Cranberry Hill		20 53.23		47 22.77	do	Do.
Cranberry Hill, 2		20 53.40		47 22.80	do	Do.
Davis (O.), house, east gable chimney		20 56.91		44 09.26	do	Do.
Dawley		32 12.06		39 02.68	do	Bull. 122.
Diamond Hill, tree		25 46.62		46 28.73	do	Rept. '85.
Dumplin		28 45.68		22 07.86	do	Do.
Dumplin, 2		28 45.69		22 07.86	do	Do.
Dunn House, white chimney		21 06.38		46 07.44	do	Do.
Dutch Island:						
Flagstaff (1868)		30 19.30		24 04.75	do	Do.
Light-house (1868)		29 48.28		24 17.18	do	Do.
Dyer Island		34 57.25		17 55.49	do	Do.
East Rock		27 04.65		11 38.34	do	Do.
Fairground, tower		31 16.61		16 27.84	do	Do.
Fishhouse, chimney		34 41.97		26 51.84	do	Do.
Fogland Point House		33 42.90		13 11.65	do	Do.
Fort Adams:						
Flagstaff (1869)		28 45.88		20 20.25	do	Do.
Flagstaff (1843)		28 47.51		20 14.24	do	Do.

RHODE ISLAND—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42°	71°-72°		
	° / "	° / "		
Fort Hill	41 20 01.27	71 49 15.13	C. & G. S.	Rept. '85.
Fort Independence	47 34.44	23 33.38	do	Do.
Fort Independence, 2	47 34.41	23 33.49	do	Do.
Four Corners, belfry	34 31.52	11 22.41	do	Do.
Fox Island	33 16.24	25 04.48	do	Do.
House chimney	33 15.00	25 06.59	do	Do.
Fox Point, rolling-mill chimney	48 59.70	23 55.82	do	Do.
Franklin	35 41.35	33 56.30	do	Bull. 122.
Gibbs	29 36.69	16 29.18	do	Rept. '85.
Gibbs, 2	29 39.54	16 28.38	do	Do.
Goat Island, light-house (1843)	29 36.09	19 39.10	do	Do.
Gould Island	32 04.30	20 42.02	do	Do.
Barn cupola	32 02.03	20 41.06	do	Do.
Governors Island	21 19.42	39 12.29	do	Do.
Green, barn cupola	33 42.34	26 31.25	do	Do.
Green Hill	22 24.70	35 51.59	do	Do.
Green Point	41 03.60	24 43.18	do	Do.
Griswold, barn, south cupola	32 58.69	14 20.83	do	Do.
Halfway Rock	33 49.82	19 58.34	do	Do.
Hall	43 12.06	17 05.59	do	Do.
Hall (Ben), house, west chimney	35 08.27	16 41.43	do	Do.
Hamilton Mills, cupola	32 57.49	26 17.05	do	Do.
Harris, barn, east cupola	22 19.74	40 22.64	do	Do.
Hazard (A. P.)	28 23.25	19 17.59	do	Do.
House, center chimney	24 34.68	33 04.20	do	Do.
Castle	24 55.10	27 28.37	do	Do.
Hector	19 31.66	47 20.57	do	Do.
High Hill	32 51.03	12 59.46	do	Do.
High Rocks	37 47.56	26 08.78	do	Do.
Hiscox	21 29.18	42 14.56	do	Do.
Hog Island	38 40.38	16 50.58	do	Do.
Hog Island, 2	38 40.48	16 50.79	do	Do.
Hog Island, 3	38 40.48	16 50.82	do	Do.
Hope Island	36 10.30	21 59.62	do	Do.
Barn	36 09.97	22 00.42	do	Do.
Howland, barn cupola	32 04.17	11 46.08	do	Do.
Hull	32 14.56	22 36.23	do	Do.
James	32 41.81	39 52.97	do	Do.
Joshua Champlin	22 16.39	39 55.33	do	Do.
Kenyon	23 25.33	37 01.43	do	Do.
Kenyon (H. G.), house, center chimney	22 56.41	37 06.67	do	Do.
Kettle Point	47 46.34	22 41.04	do	Do.
Kingston, church spire	28 48.90	31 33.54	do	Do.
Kinnicut	47 47.84	21 57.48	do	Do.
Knapp Point, house chimney	18 22.53	53 07.63	do	Do.
Lawton, house, flagstaff	37 33.40	12 48.97	do	Do.
Liberty Pole	21 41.54	37 21.90	do	Do.
Little Compton	31 12.38	11 00.71	do	Do.
Little Compton, 2 (1870)	31 12.44	11 01.69	do	Do.
Church spire	30 33.63	10 18.35	do	Do.
McSparrow	29 46.95	27 24.74	do	Do.
McSparrow, 2	29 47.79	27 24.35	do	Do.
Meetinghouse Hill	26 45.32	28 33.93	do	Do.
Meetinghouse Hill, 2	26 43.17	28 33.55	do	Do.
Miantonomy	30 37.05	18 37.43	do	Do.
Mound	38 14.04	13 11.91	do	Do.
Mount Hope (Borden)	40 27.55	14 26.15	do	Do.
Mount Hope	40 26.13	14 26.21	do	Do.
Mount Hope, 2	40 26.52	14 26.09	do	Do.
Mumford, Cranston	46 13.10	33 15.83	do	Bull. 122.
Munroe (Borden)	46 34.35	19 05.61	do	Rept. '85.
Narragansett, church	29 33.60	25 33.46	do	Do.
Narragansett Bay, yellow barn cupola	41 01.77	27 13.58	do	Do.
Nayatt light-house (1863)	43 30.64	20 21.88	do	Do.
Nayatt light-house (1843)	43 30.09	20 22.31	do	Do.
Neutaconkanut	48 41.08	28 03.06	do	Do.
Newport:				
Bronson's house flagstaff	27 51.76	21 28.23	do	Do.
Church	29 14.46	18 49.71	do	Do.
Belmont's house cupola	27 52.17	18 22.46	do	Do.
Catholic church spire	28 49.06	18 49.38	do	Do.
Ocean House	28 53.24	18 30.59	do	Do.
New Weeden	22 54.29	33 16.31	do	Do.
North Popasquash	40 54.61	18 12.28	do	Do.
North Windmill	35 16.01	15 16.18	do	Do.
Northeast corner of Connecticut	01 24.82	48 04.20	do	Do.
Northwest corner of Rhode Island	00 29.15	47 58.92	do	Do.
Noyes Neck	19 46.49	45 19.84	do	Do.
Noyes Point	19 46.31	45 19.44	do	Do.

RHODE ISLAND—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° "	71°-72° ° "		
Nye's (R.) house, white chimney	41 21 54.53	71 46 28.12	C. & G. S.	Rept. '85.
Paine	09 18.85	33 44.99	do	Do.
Pappoose Squaw	39 15.20	18 02.52	do	Do.
Pappoose Squaw, 2	39 15.20	18 02.45	do	Do.
Paradise Rock	30 05.51	15 45.50	do	Do.
Patience	39 33.47	21 24.58	do	Do.
Pawhungnook, church	30 20.06	50 25.46	do	Do.
Pawtucket:				
Spire	52 36.04	22 53.84	do	Do.
Dark spire	52 53.95	23 05.06	do	Do.
Pawtuxet	45 56.80	23 13.95	do	Do.
Borden	45 14.19	23 41.72	do	Do.
Beacon (1843)	45 35.56	22 50.95	do	Do.
Church spire	45 59.12	23 30.53	do	Do.
Peleg Tiff	23 18.75	48 40.42	do	Do.
Peirce:				
Barn	48 22.47	22 59.79	do	Do.
Barn cupola	25 34.08	28 50.74	do	Do.
Pine Hill	38 00.47	20 35.81	do	Do.
Pocasset	39 09.42	11 32.36	do	Do.
Point Judith	21 54.84	29 17.94	do	Do.
Light-house (1838)	21 39.88	28 54.73	do	Do.
Pojack	39 04.92	24 27.97	do	Do.
Pomham	46 42.15	21 28.04	do	Do.
Beacon (1843)	46 35.13	22 27.08	do	Do.
Poorhouse:				
Belfry	30 26.86	19 43.31	do	Do.
Northeast gable	35 21.98	24 50.76	do	Do.
Portsmouth, belfry	36 13.34	14 53.67	do	Do.
Portsmouth Grove, flagstaff	35 13.03	17 13.73	do	Do.
Potter's windmill shaft	30 56.30	22 28.66	do	Do.
Potter's (widow) barn	33 18.00	12 17.07	do	Do.
Potter's (A.) house chimney	30 29.90	21 38.60	do	Do.
Potter's (Dr.) house chimney	27 00.95	26 30.46	do	Do.
Prince	44 34.61	18 56.32	do	Do.
Prospect Hill	49 44.64	24 20.85	do	Do.
Providence:				
Baptist church	49 38.92	24 32.12	do	Do.
Congregational church	49 12.90	24 50.78	do	Do.
High Street church	49 05.73	25 16.25	do	Do.
Unitarian church	49 27.89	24 19.99	do	Do.
Quaker College	50 00.56	23 56.34	do	Do.
Vitril works chimney	49 49.56	25 21.92	do	Do.
Prudence	36 24.42	18 42.59	do	Do.
2 (1869)	36 22.23	18 41.81	do	Do.
Island, light-house (1861)	36 21.34	18 14.46	do	Do.
Island, light-house (1869)	36 28.93	18 30.35	do	Do.
South	34 44.45	19 32.96	do	Do.
Quaker	34 57.38	15 18.34	do	Do.
Quonochontaug	19 59.99	42 37.33	do	Do.
Quonsett	35 26.58	24 33.70	do	Do.
Quonsett, 2	35 16.90	24 23.02	do	Do.
Quonsett, 3 (1868)	35 17.03	24 23.20	do	Do.
Reynolds	33 45.55	26 52.10	do	Bull. 122. Rept. '85.
Rocky Point	41 29.72	21 50.06	do	Do.
Hotel chimney	41 21.91	21 55.52	do	Do.
Rose Island	29 48.20	20 34.44	do	Do.
Flagstaff	29 47.52	20 34.30	do	Do.
Rumstick	42 24.05	18 07.76	do	Do.
Sable Point	46 02.38	22 06.14	do	Do.
Sakonnet Point	27 16.36	11 46.09	do	Do.
Sanders's (E.) house chimney	20 26.32	44 46.60	do	Do.
Sandford, mill cupola	33 05.93	26 53.50	do	Do.
Sandhill	21 40.62	42 17.39	do	Do.
Sandy Point	39 43.29	24 37.14	do	Do.
Schoolhouse chimney	32 18.25	22 33.32	do	Do.
Seventh-Day meetinghouse, north chimney	23 36.04	36 30.00	do	Do.
Shannock	28 05.19	38 21.49	do	Do.
Shaw's (Peter) barn cupola	29 14.50	08 45.72	do	Do.
Sherman	30 16.94	30 56.19	G. S.	Bull. 122.
Sherman	30 16.94	30 56.02	C. & G. S.	Rept. '85.
Sherman's (J. P.) house center chimney	23 25.18	31 45.62	do	Do.
Sherman, house chimney	33 47.42	22 24.25	do	Do.
Signal flag	35 32.16	25 42.20	do	Do.
Simmons	29 32.29	09 34.21	do	Do.
Simmons, 2	29 32.08	09 34.66	do	Do.
Slate	32 21.01	15 59.64	do	Do.
Slate Hill, flagstaff (1869)	32 22.15	15 56.41	do	Do.
Smith, barn cupola	36 00.02	25 23.04	do	Do.

RHODE ISLAND—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42°	71°-72°		
South Portsmouth:	o	c		
Episcopal church tower.....	41 32 50.30	71 15 42.34	C. & G. S.	Rept. '85.
Union church tower.....	33 30.18	15 21.90	do	Do.
South Rock.....	34 26.66	25 03.67	do	Do.
Spar Island.....	41 17.40	13 14.68	do	Do.
Spencer.....	40 43.26	29 40.68	do	Do.
Spencer (2), Warwick.....	40 38.87	29 49.30	do	Bull. 122.
Stargut Island, house, north gable.....	47 10.00	22 55.92	do	Rept. '85.
Stevens.....	44 44.13	22 56.05	do	Do.
Sugarloaf Hill.....	26 04.95	30 40.02	do	Do.
Taft:				
Barn cupola.....	31 32.92	25 34.92	do	Do.
House chimney.....	28 01.34	27 37.94	do	Do.
Telegraph.....	27 47.83	20 11.63	do	Do.
Telegraph, 2.....	27 47.28	20 11.61	do	Do.
Tiff.....	27 48.56	32 15.70	do	Bull. 122.
Tiverton, cupola.....	37 30.25	12 50.91	do	Rept. '85.
Topographical pole, near post road.....	23 41.82	35 54.60	do	Do.
Topographical pole, 3.....	23 17.94	35 17.72	do	Do.
Topographical pole, 4.....	23 59.28	32 40.78	do	Do.
Topographical pole, 6.....	24 00.68	33 31.32	do	Do.
Tourtellot, Gloucester.....	53 40.34	39 16.48	do	Bull. 122.
Tower Hill, church.....	28 02.85	27 35.23	do	Rept. '85.
Toweset.....	41 59.23	14 33.74	do	Do.
Toweset Neck (Borden).....	42 45.02	13 36.28	do	Do.
Vaughn, house cupola.....	34 25.62	27 45.68	do	Do.
Village Hill.....	20 54.17	44 59.29	do	Do.
Vue de l'Eau Hotel.....	47 15.82	22 05.09	do	Do.
Wakefield:				
Flagstaff.....	26 05.03	30 40.05	do	Do.
Church, gray spire.....	26 25.58	29 50.95	do	Do.
Church, white spire.....	26 24.25	30 11.06	do	Do.
Warren:				
Spire.....	43 48.47	17 04.14	do	Do.
Methodist spire.....	43 48.78	17 02.72	do	Do.
Beacon (1863).....	42 48.74	17 37.24	do	Do.
Warwick beacon (1843).....	39 25.02	23 36.17	do	Do.
Warwick light-house (1863).....	40 01.43	22 49.28	do	Do.
Warwick Neck.....	41 21.10	22 49.72	do	Do.
Watch Hill.....	18 49.93	51 17.20	do	Do.
Light-house.....	18 14.19	51 32.43	do	Do.
Watson, house chimney.....	28 22.37	26 05.70	do	Do.
Weaver, Coventry.....	39 37.21	39 49.84	do	Bull. 122.
Weeden.....	22 50.89	33 15.24	do	Rept. '85.
Well Hill.....	25 56.65	45 15.92	do	Do.
West.....	38 44.42	15 42.00	do	Do.
West Island, New York Club flag-staff (1869).....	27 00.81	11 59.03	do	Do.
Westerly.....	21 59.88	40 52.84	do	Do.
Wharton's (D.) house, east chimney.....	24 56.65	27 16.49	do	Do.
White House:				
West chimney.....	23 20.46	29 18.66	do	Do.
North chimney.....	40 46.09	27 04.36	do	Do.
Whitman.....	40 33.89	27 19.36	do	Do.
Wickford.....	34 30.54	28 02.69	do	Do.
Academy.....	34 06.68	27 21.19	do	Do.
Baptist church.....	34 19.58	27 05.35	do	Do.
Light-house (1868).....	34 15.92	26 22.59	do	Do.
Spire.....	34 23.40	27 00.02	do	Do.
Wilbur.....	29 29.63	38 32.54	do	Do.
Windmill.....	29 24.36	11 02.56	do	Do.
Wilcox.....	21 23.20	43 59.86	do	Do.
Windmill.....	32 33.62	11 50.48	do	Do.
Windmill, 2 (1869).....	32 33.56	11 50.51	do	Do.
Wing.....	35 23.22	11 10.35	do	Do.
Woonsocket.....	58 40.81	33 15.16	do	Bull. 122.
Yellow barn, cupola.....	22 31.40	37 26.60	do	Rept. '85.
Yellow house, chimney.....	43 41.87	19 23.20	do	Do.

CONNECTICUT.

	42°-43°	73°-74°		
	o	o		
Ball Peak, Mount Riga.....	42 00 43.33	73 27 57.84	C. & G. S.	Rept. '88.
Connecticut line (Borden).....	02 58.78	29 42.92	do	Do.
	41°-42°	71°-72°		
Atwoods, machine works cupola.....	41 19 49.32	71 54 26.23	do	Do.
Box Hill.....	47 59.79	27 21.40	do	Bull. 122.

CONNECTICUT—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42°	71°-72°		
Chapman Hill.....	41 29 32.28	71 51 40.57	C. & G. S.	Bull. 122.
Eels Hill, 2.....	22 49.87	51 04.35	do	Rept. '85.
Frost.....	20 57.57	51 03.25	do	Rept. '88.
Grant Hill.....	25 25.17	54 06.05	do	Do.
Jesse Main.....	26 31.63	49 15.00	do	Do.
Lantern Hill.....	27 37.93	56 40.83	do	Do.
Morgan Point, light-house (1874-1886).....	18 59.43	59 23.67	do	Do.
Mount Riga (on Ball Peak).....	00 43.33	27 57.84	do	Rept. '85.
Noank, spire (1882).....	19 33.76	59 13.14	do	Do.
North Stonington.....	25 59.53	51 20.72	do	Do.
Northeast corner of Connecticut (Borden).....	01 24.82	48 04.20	do	Do.
Palmer.....	21 37.29	55 41.92	do	Rept. '88.
Portersville, spire (1835).....	21 14.80	58 24.87	do	Do.
Powhungemock church (1838).....	30 20.06	50 25.46	do	Do.
Quacatog.....	23 15.29	56 58.57	do	Do.
Ram Island:				
Hotel flagstaff.....	18 40.34	58 46.45	do	Do.
Reef Spindle (1835).....	18 23.16	58 29.42	do	Do.
Road Meetinghouse (1838).....	22 23.44	54 51.18	do	Do.
Sandford.....	27 42.80	56 59.30	do	Rept. '85.
Stonington:				
Meetinghouse (1835).....	20 12.24	54 21.08	do	Rept. '88.
Harbor, light-house (1873-1886).....	19 42.72	54 21.59	do	Do.
Walnut Hill.....	25 14.80	54 35.66	do	Do.
Wamposset.....	19 44.65	55 16.93	do	Do.
Wilcox, fish works, brick chimney.....	19 59.45	57 13.04	do	Do.
	41°-42°	72°-73°		
Allen.....	41 17 40.30	72 58 23.88	do	Do.
Arnold Quarry.....	23 26.06	30 28.54	do	Do.
Avery Hill.....	23 02.99	02 58.71	do	Do.
Avery Hill, 2.....	20 21.52	04 05.25	do	Do.
Avery Point.....	18 57.59	03 52.58	do	Do.
Avery Point, 2 (1882).....	18 57.02	03 52.68	do	Do.
Ayer.....	19 55.92	21 38.38	do	Do.
Bailey.....	22 51.64	04 56.93	do	Do.
Bald Hill.....	58 25.89	11 55.03	do	Bull. 122.
Do.....	27 43.10	25 06.86	do	Rept. '88.
Baldwin.....	24 06.00	04 40.25	do	Do.
Barker.....	15 15.84	48 34.22	do	Do.
Bartlett.....	14 54.10	42 44.85	do	Do.
Beacon.....	18 48.03	03 58.98	do	Do.
Hill.....	17 34.65	24 08.85	do	Do.
Hill, 3 (1882).....	17 34.38	24 09.32	do	Do.
Beckwith.....	21 12.50	21 23.04	do	Do.
Bethany:				
Church spire.....	25 30.92	59 47.33	do	Do.
South.....	23 34.15	58 03.90	do	Do.
Bigelow's house, chimney.....	18 09.63	54 04.21	do	Do.
Bill Hill.....	20 11.29	59 08.35	do	Do.
Block Point.....	17 09.68	12 19.75	do	Do.
Block Point, 2 (1882).....	17 11.78	12 17.37	do	Do.
Bluff Point.....	18 53.97	02 04.97	do	Do.
Bog Hole Hill.....	18 49.74	18 56.90	do	Do.
Bog Hole Hill, 2 (1861).....	18 49.74	18 56.95	do	Do.
Bolles Hill.....	27 49.24	04 43.04	do	Do.
Book Hill.....	22 06.53	24 47.38	do	Do.
Boulder.....	14 34.79	42 21.46	do	Do.
Bradley.....	17 14.20	49 28.04	do	Do.
Brainerd.....	29 18.49	31 35.95	do	Do.
Branford, Congregational church spire (1876).....	16 52.22	48 40.61	do	Do.
Branford Reef, beacon (1881-1882).....	13 16.78	48 20.68	do	Do.
Brethren.....	24 53.18	55 48.69	do	Do.
Brewster's Factory cupola.....	18 09.46	54 38.72	do	Do.
Bridge.....	17 33.28	55 59.19	do	Do.
Broadway church.....	31 34.05	04 33.65	do	Do.
Brockway.....	23 23.64	23 18.73	do	Do.
Brooks.....	25 24.26	25 42.99	do	Do.
Browning.....	25 05.54	06 23.63	do	Do.
Buckingham.....	22 56.35	23 47.90	do	Do.
C.....	16 14.33	54 21.20	do	Do.
Camp Hill.....	16 30.41	34 13.41	do	Do.
Canal Dock.....	17 38.30	54 52.73	do	Do.
Case.....	22 31.63	53 32.34	do	Do.
Cedar.....	31 08.33	05 25.87	do	Do.
Do.....	22 41.98	23 40.05	do	Do.
Do.....	17 43.14	57 44.57	do	Do.
Centerville, church.....	23 01.59	54 11.50	do	Do.
Champion House flagstaff.....	27 42.76	27 53.32	do	Do.
Chapin.....	18 01.01	06 45.23	do	Do.

CONNECTICUT—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42°	72°-73°		
	° ' "	° ' "		
Charleston, cupola.....	41 31 41.22	72 04 50.63	C. & G. S.	Rept. '88.
Chemical works ventilator	16 07.90	54 07.34	do.....	Do.
Cheshire, church spire	29 52.78	54 12.18	do.....	Do.
Chester:				
Landing	24 50.52	25 45.96	do.....	Do.
Spire	24 04.64	27 15.16	do.....	Do.
Chestnut, 1 (1875)	21 56.86	57 05.62	do.....	Do.
Chestnut, 2 (1875)	23 12.86	55 28.34	do.....	Do.
Chestnut Hill	31 27.38	25 53.56	do.....	Do.
Clark Point	14 00.32	58 43.15	do.....	Do.
Clinton, church spire (1882)	16 39.89	31 38.74	do.....	Do.
Cornfield Point	15 42.21	23 14.28	do.....	Do.
Cornfield Point, 2 (1882)	15 42.48	23 14.73	do.....	Do.
Cone	24 38.76	26 52.80	do.....	Do.
Do	17 55.09	50 58.03	do.....	Do.
Corner stone	24 03.62	05 27.44	do.....	Do.
Cow Hill	17 44.40	32 29.65	do.....	Do.
Cow Point	24 32.33	05 33.94	do.....	Do.
Crane Bar	17 05.14	54 13.95	do.....	Do.
Cromwell, Congregational church	35 48.75	38 46.76	do.....	Do.
Deep River spire	23 12.14	26 04.78	do.....	Do.
Dickerman	25 06.94	55 42.34	do.....	Do.
Dike	17 01.99	56 16.54	do.....	Do.
Doane	22 27.19	24 47.58	do.....	Do.
Doolittle	22 25.18	58 48.29	do.....	Do.
Dragon, brick church, spire	18 35.18	53 26.31	do.....	Do.
Duck Island	15 23.67	28 33.14	do.....	Do.
Duck Island, 2 (1882)	15 23.91	28 33.26	do.....	Do.
Fair Haven:				
Spire	18 35.20	53 26.33	do.....	Do.
Second Congregational church	18 27.90	53 08.81	do.....	Do.
Falkner Island, light-house (1833-1882)	12 43.18	39 14.45	do.....	Do.
Falls liberty pole	32 08.89	05 28.42	do.....	Do.
Fellows	31 06.86	04 09.50	do.....	Do.
Fenwick Hall, flagstaff	16 20.43	21 15.03	do.....	Do.
Ferry	18 57.92	21 56.98	do.....	Do.
Ferry, 2 (1861)	18 57.91	21 57.00	do.....	Do.
Fish house	15 49.62	27 53.71	do.....	Do.
Flagstaff	31 01.07	04 53.78	do.....	Do.
East	16 58.77	53 58.50	do.....	Do.
East Haddam:				
Congregational church	28 49.29	26 48.97	do.....	Do.
Episcopal church	27 37.70	27 33.73	do.....	Do.
East Hartford, square steeple, green blinds	46 08.56	38 41.38	do.....	Do.
East Haven:				
Flagstaff (1875)	16 32.08	52 04.15	do.....	Do.
Spire	16 41.82	52 19.72	do.....	Do.
East Rock	19 37.42	54 17.44	do.....	Do.
East Rock, 2 (1871)	19 42.43	54 26.32	do.....	Do.
Edgecombe House, flagstaff	19 31.46	04 31.67	do.....	Do.
Ely	21 51.48	22 27.20	do.....	Do.
Ely, 2 (1861)	21 51.48	22 27.19	do.....	Do.
Ely, 3 (1861)	21 52.97	22 24.74	do.....	Do.
Emmons	32 06.35	32 07.63	do.....	Do.
Essex	20 33.36	23 49.09	do.....	Do.
Baptist church	21 18.26	23 33.57	do.....	Do.
Congregational church	21 09.96	23 34.24	do.....	Do.
Episcopal church (1861)	21 11.08	23 32.43	do.....	Do.
Essex, 2 (1861)	20 33.33	23 49.09	do.....	Do.
Forbes	17 47.40	54 07.40	do.....	Do.
Fort Hale, 2 (1874)	16 14.79	54 18.57	do.....	Do.
Fort Hill, 2 (1882)	20 47.82	00 40.65	do.....	Do.
Fort Trumbull, flagstaff (1882)	20 38.28	05 39.16	do.....	Do.
Fort Wooster, 3 (1882)	16 55.92	53 35.12	do.....	Do.
Four Mile River, 2 (1882)	18 12.40	16 13.48	do.....	Do.
Fresenius Brewery cupola	17 56.34	56 36.16	do.....	Do.
Gelston	26 57.58	26 31.49	do.....	Do.
Giant Head	25 35.82	53 59.06	do.....	Do.
Goshen	17 57.65	06 47.94	do.....	Do.
Granby	55 57.08	53 18.88	G. S.	Bull. 122.
Grassy Hill, church	23 45.56	17 16.50	C. & G. S.	Rept. '88.
Gravel Bluff	19 20.44	21 05.84	do.....	Do.
Graves	17 52.84	36 51.65	do.....	Do.
Great Hummock	15 35.22	30 43.34	do.....	Do.
Great Rock	20 31.54	51 11.30	do.....	Do.
Green Hill	49 00.26	23 14.32	G. S.	Bull. 122.
Griswold	17 30.24	39 36.26	C. & G. S.	Rept. '88.
Groton Hill	22 38.27	04 54.20	do.....	Do.
Groton Long Point	18 26.80	00 21.29	do.....	Do.
Groton Long Point, 2 (1882)	18 25.09	00 19.93	do.....	Do.

CONNECTICUT—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	41°-42°	"	72°-73°	"		
Groton Monument	41	21 18.02	72	04 47.45	C. & G. S.	Rept. '88.
Grove		19 02.97		52 57.23	do	Do.
Guard House Point, chimney		15 51.14		22 04.12	do	Do.
Haddam:						
Academy		28 44.81		30 59.76	do	Do.
Congregational church		28 45.82		30 56.05	do	Do.
Court-house		28 50.68		31 00.62	do	Do.
Haddam Neck		28 55.33		29 28.36	do	Do.
Congregational church		31 47.50		32 13.46	do	Do.
Methodist church		30 54.47		30 53.26	do	Do.
Flag		29 37.60		30 30.18	do	Do.
Hadlyme, church cupola		25 53.58		24 21.36	do	Do.
Hamburg Cove		22 36.66		22 21.00	do	Do.
Hamden Methodist church		21 11.38		55 53.14	do	Do.
Hammonasset, hotel chimney		16 17.35		35 10.59	do	Do.
Hammonasset, 2 (1882)		14 55.84		32 40.59	do	Do.
Harrison		18 00.48		49 45.16	do	Do.
Hartford:						
South Congregational church		45 34.82		40 33.35	do	Do.
Arsenal flagstaff		46 51.85		40 34.00	do	Do.
Colt's factory		45 24.28		39 48.90	do	Do.
Old State House cupola		45 58.03		40 23.38	do	Do.
Windsor avenue church		46 56.74		40 33.74	do	Do.
Hatchett Point		16 58.81		15 43.53	do	Do.
Hatchett Point, 2 (1882)		17 03.53		15 45.75	do	Do.
Hayden Point		20 37.22		22 38.52	do	Do.
Hemlock		22 27.28		59 03.64	do	Do.
Hemmingway		18 58.19		52 12.37	do	Do.
Hen and Chickens beacon (1882)		15 12.16		24 18.33	do	Do.
Higganum:						
Congregational church		29 51.13		33 20.29	do	Do.
Methodist church		29 54.66		33 49.49	do	Do.
High Hill		20 37.57		37 41.95	do	Do.
Highlands		15 56.18		38 57.53	do	Do.
High Rock		24 18.25		56 07.91	do	Do.
Hillhouse		19 40.61		59 48.57	do	Do.
Hillside		22 52.58		57 57.35	do	Do.
Headley Neck		15 27.53		44 10.04	do	Do.
Hogshead Point		16 10.60		38 15.26	do	Do.
Holt		25 41.32		27 29.89	do	Do.
Honey Hill		23 49.83		21 34.38	do	Do.
Horse Pond		17 36.20		35 20.92	do	Do.
Horse, cupola of house		14 39.86		45 31.03	do	Do.
Hotchkiss		23 43.87		58 53.50	do	Do.
Howard, 1 (1876)		24 31.72		52 18.81	do	Do.
Howard, 2 (1877)		24 51.14		52 33.05	do	Do.
Huddleston		26 57.06		58 24.78	do	Do.
Hungry Hill		18 49.90		41 33.02	do	Do.
Ives cupola		18 31.69		52 52.00	do	Do.
Indian Neck		15 23.82		49 19.76	do	Do.
Insane asylum, northwest chimney		33 08.02		37 50.08	do	Do.
Jail Hill		31 41.16		04 49.15	do	Do.
Jeremy:						
North		16 13.51		56 03.18	do	Do.
South		15 39.47		56 02.96	do	Do.
Jewett		18 46.91		58 22.14	do	Do.
Joe Post light (1861)		23 20.35		25 05.28	do	Do.
Johnny Cake		45 12.79		59 41.01	G. S.	Bull. 122.
Jones		27 59.34		27 32.46	C. & G. S.	Rept. '88.
Do		15 37.80		58 25.79	do	Do.
Jordan, church tower		18 31.00		07 42.35	do	Do.
Joshua Rock		22 51.84		22 37.80	do	Do.
Kelsey Clinton		15 24.44		30 27.65	do	Do.
Kelsey Westbrook		16 27.00		25 28.46	do	Do.
Kongscut		41 44.35		30 10.15	do	Do.
Lancrofts, cupola		18 05.15		53 17.68	do	Do.
Lay Hill		16 58.26		18 02.04	do	Do.
Lay Hill, 2 (1861)		16 58.20		18 02.06	do	Do.
Lay Hill, 3 (1882)		16 57.93		18 01.84	do	Do.
Lebanon		26 26.56		59 38.96	do	Do.
Ledge		25 07.39		05 17.74	do	Do.
Lewis		19 14.73		12 03.15	do	Do.
Lewis Grove		16 16.03		29 08.62	do	Do.
Locust		25 02.22		27 17.72	do	Do.
Long Hill		26 45.49		30 24.97	do	Do.
Do		17 26.35		30 47.08	do	Do.
Do		24 08.31		53 09.57	do	Do.
Lord		21 30.88		20 47.42	do	Do.
Lower Pole Hill		27 11.69		07 31.19	do	Do.
Lyne, white Congregational church (1835-1883)		18 46.45		19 56.04	do	Do.

CONNECTICUT—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° / "	72°-73° ° / "		
Madison :				
Church spire (1838)	41 16 44.80	72 36 08.35	C. & G. S.	Rept. '88.
Congregational church spire (1882)	16 47.90	36 12.79	do	Do.
Malicah	20 35.17	20 09.23	do	Do.
Manetuck	21 15.56	09 06.16	do	Do.
Manetuck, 2 (1882)	21 15.26	09 03.53	do	Do.
Mansfield	21 52.39	50 20.97	do	Do.
Mason	30 30.13	04 41.83	do	Do.
Maynard	26 10.51	04 14.49	do	Do.
Meeting House Hill	36 08.68	08 38.97	G. S.	Bull. 122.
Menunketesuck	15 42.73	27 43.99	C. & G. S.	Rept. '88
Merritt	24 23.65	56 30.69	do	Do.
Middletown :				
Catholic church	33 59.08	39 11.92	do	Do.
Indian Hill Cemetery, summer-house.	33 17.08	39 43.19	do	Do.
North Congregational church	33 36.59	39 05.42	do	Do.
South Congregational church	33 23.25	38 51.74	do	Do.
Wesleyan College chapel	33 20.72	39 23.04	do	Do.
Mill Rock	16 48.22	51 47.65	do	Do.
Millstone Point	18 18.92	09 54.44	do	Do.
House, west chimney	18 30.40	10 03.21	do	Do.
Mohican :				
Church spire (1838)	28 23.88	05 55.31	do	Do.
Church spire (1874)	28 23.90	05 55.40	do	Do.
Montwese church	20 55.49	51 45.80	do	Do.
Morgan Point	14 32.70	53 39.53	do	Do.
Moose Hill, New Haven	13 22.56	44 34.18	do	Do.
Moodus	31 13.47	27 32.64	do	Do.
Mound	30 32.65	05 13.43	do	Do.
Mount Carmel	25 51.80	53 25.64	do	Do.
Mount Ephraim	27 47.45	54 56.04	do	Do.
Mount Parnassus	28 03.61	24 40.54	do	Do.
Mount Prospect	28 22.70	58 16.34	do	Do.
Mulberry Point	15 37.52	40 55.47	do	Do.
Murdock	17 10.50	28 20.94	do	Do.
Murdock, 2 (1882)	17 06.83	28 21.73	do	Do.
New England Cement Works, smoke-stack.	22 36.18	58 39.97	do	Do.
New Haven :				
First Congregational church	18 34.78	53 38.15	do	Do.
Baptist church	18 33.50	53 23.82	do	Do.
Light-house (1833-1882)	14 56.40	54 15.13	do	Do.
City Hall	18 26.57	55 29.87	do	Do.
Alms-house cupola	18 55.57	57 08.48	do	Do.
Scientific School, observatory tower.	18 42.77	55 32.63	do	Do.
St. Paul's Episcopal church, southwest spire.	18 13.74	55 13.86	do	Do.
St. Patrick's church	18 30.72	54 42.41	do	Do.
Grace church	18 25.50	53 57.08	do	Do.
South church	17 53.48	55 52.88	do	Do.
Custom-House Square, flagstaff	18 02.82	55 26.63	do	Do.
Schoolhouse cupola	18 35.19	53 26.32	do	Do.
Long Wharf light-house (1873)	17 33.82	54 56.49	do	Do.
New London :				
First Congregational church (1882).	21 18.23	05 50.38	do	Do.
Second Congregational church (1882).	21 26.34	06 06.30	do	Do.
Light-house (1835-1886)	18 59.99	05 24.68	do	Do.
Niantic, spire	19 39.00	11 35.04	do	Do.
Nickerson	23 53.85	19 39.56	do	Do.
No Name	26 41.35	57 30.62	do	Do.
North	17 35.88	54 15.85	do	Do.
North Glastonbury, Congregational church.	42 31.86	36 31.92	do	Do.
North Guilford church spire	22 05.84	43 39.44	do	Do.
North Haven church spire	23 12.97	51 42.66	do	Do.
North Hill	22 36.82	49 18.43	do	Do.
North Killingworth, Congregational church (1836-1882).	21 47.07	33 58.07	do	Do.
North Pond Rock	19 00.52	50 17.48	do	Do.
North Quinnipiac	19 28.71	53 20.77	do	Do.
North Sheffield College :				
Larger observatory in college grounds.	18 47.00	55 30.89	do	Do.
South chimney lightning rod	18 45.96	55 31.67	do	Do.
North watchhouse	16 44.40	55 09.49	do	Do.
Norwich church	32 57.64	05 46.78	do	Do.
Noyes	18 59.61	20 33.18	do	Do.
Ogden	23 48.29	05 24.44	do	Do.

CONNECTICUT—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° / //	72°-73° ° / //		
Orange	41 17 58.04	72 57 54.16	C. & G. S.	Rept. '88.
Oyster Point	16 58.47	55 48.98	do	Do.
Oyster River Point	14 02.20	58 33.11	do	Do.
Paddock	16 25.92	34 13.68	do	Do.
Page	19 22.92	48 11.92	do	Do.
Paphro	28 40.41	31 30.35	do	Do.
Park church	32 07.87	04 55.05	do	Do.
Peak	57 32.48	44 24.02	G. S.	Bull. 122.
Peckstreet	19 02.44	53 19.01	C. & G. S.	Rept. '88.
Penfield Hill	34 54.05	34 29.77	do	Do.
Pettipaug spire	21 05.94	24 53.38	do	Do.
Pilgrim	19 49.60	20 27.46	do	Do.
Pine	21 59.66	58 25.68	do	Do.
Hill	36 37.64	32 11.98	do	Do.
) Island	20 26.14	20 50.95	do	Do.
Street	18 47.78	53 16.56	do	Do.
Pinnacle	18 58.65	51 00.62	do	Do.
Plant Hill	16 39.10	50 29.84	do	Do.
Pole	27 14.52	07 41.57	do	Do.
Pond Lily Paper Mill, chimney	20 06.59	58 35.00	do	Do.
Pond Rock	17 40.04	51 24.46	do	Do.
Poorhouse flagstaff	21 08.51	06 41.80	do	Do.
Poplar	16 30.49	50 22.65	do	Do.
Poplar, 2 (1882)	16 30.47	50 22.65	do	Do.
Portland :				
White steeple	34 53.00	38 03.12	do	Do.
Congregational church	35 28.53	37 29.55	do	Do.
Schneider's factory smokestack	34 14.78	37 45.68	do	Do.
Post	13 22.33	59 40.60	do	Do.
Post Hill	40 15.15	20 19.64	G. S.	Bull. 122.
Prindle	16 05.12	59 32.63	C. & G. S.	Rept. '88.
Prospect church spire	30 07.69	58 41.88	do	Do.
Quaker	22 46.37	06 26.05	do	Do.
Quarry	24 26.72	25 17.11	do	Do.
Do	15 26.37	43 59.37	do	Do.
Quartz Hill	22 00.41	59 41.37	do	Do.
Rabbit Rock	20 31.63	51 12.19	do	Do.
Red and White	17 07.05	53 49.07	do	Do.
Road	24 18.51	56 40.25	do	Do.
Robinson Hill	47 43.61	04 48.29	G. S.	Bull. 122.
Rock	31 10.98	04 13.18	C. & G. S.	Rept. '88.
Rocky Ledge	18 30.73	15 01.16	do	Do.
Rogers, Smith & Co., cupola	18 09.46	54 38.76	do	Do.
Round Hill House	17 41.00	58 23.73	do	Do.
Sachem Head	16 58.58	43 30.78	do	Do.
Salmon	28 19.33	28 00.52	do	Do.
Sandford (1839)	28 07.64	57 13.78	do	Do.
Sandford Az. Station (1862)	27 42.80	56 59.30	do	Do.
Sandford Lat. Station (1862)	27 43.19	56 59.85	do	Do.
Sandy Point	16 04.16	55 35.10	do	Do.
Saybrook :				
Beacon (1882-83)	16 07.50	20 18.70	do	Do.
Light-house (1835-36)	16 17.65	20 36.94	do	Do.
Breakwater light-house (1886)	15 47.69	20 35.45	do	Do.
Congregational church (1861-1883)	17 12.20	22 32.29	do	Do.
Light-house (1861-1886)	16 17.39	20 36.86	do	Do.
Schoolhouse	30 54.32	04 32.55	do	Do.
Schoolhouse Hill	39 31.32	40 52.91	do	Do.
Selden	24 20.24	24 02.76	do	Do.
Selden Neck	23 43.05	24 54.72	do	Do.
Selden North	30 50.16	31 30.07	do	Do.
Setauket	19 36.49	46 32.11	do	Do.
Shailerville, Baptist church	27 55.48	28 47.96	do	Do.
Shaler	27 47.93	29 00.93	do	Do.
Shell Heap	18 43.58	52 58.94	do	Do.
Shipman	40 16.02	38 14.37	do	Do.
Simpson	37 58.08	36 47.82	do	Do.
Slate Hill	22 28.22	58 52.19	do	Do.
Slaughterhouse, east cupola	19 17.26	53 33.27	do	Do.
Smith	30 32.05	30 55.32	do	Do.
Smith Landing	29 07.76	30 26.30	do	Do.
Soapstone	57 32.50	24 49.30	G. S.	Bull. 122.
South Pond Rock	17 05.89	51 49.89	C. & G. S.	Rept. '88.
Southwest Ledge, light-house (1875-1882)	14 04.14	54 45.08	do	Do.
Sperry	21 06.84	59 14.60	do	Do.
Spink Hill	16 37.70	50 58.79	do	Do.
Steens	37 19.70	40 47.26	do	Do.
Stone Hill	19 54.15	24 11.31	do	Do.
Storr Monument	48 52.51	15 33.98	do	Do.
St. Francis Orphan Asylum, cupola	19 43.78	55 07.62	do	Do.

CONNECTICUT—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° ' "	72°-73° ° ' "		
Stony Creek	41 16 23.30	72 45 21.29	C. & G. S.	Rept. '88.
Sugarloaf	22 31.86	43 54.97	do	Do.
Swan Hill	30 09.02	33 31.89	do	Do.
Sweet Hill	40 15.88	13 49.55	G. S.	Bull. 122.
Talcott	48 41.64	47 57.19	C. & G. S.	Rept. '88.
Taylor	40 19.05	35 25.38	do	Do.
Telegraph	17 09.92	55 52.59	do	Do.
Telegraph rod	18 56.81	53 14.72	do	Do.
Thayer	31 55.85	35 07.14	do	Do.
Thompson	19 42.10	49 58.20	do	Do.
Tory	31 04.44	04 05.33	do	Do.
Town Post	15 27.60	43 54.11	do	Do.
Tryon	32 40.58	37 37.73	do	Do.
Tulip tree	21 47.87	54 00.68	do	Do.
Tuxis Island	15 57.89	36 08.32	do	Do.
Tuxis Island, 2 (1882)	15 57.09	36 06.35	do	Do.
Two Tree Island	17 40.82	09 11.98	do	Do.
Two Tree Island, 2 (1882)	17 39.18	09 11.03	do	Do.
Two Tree Island House	17 40.18	09 11.37	do	Do.
Uncas Hill	28 14.90	05 27.62	do	Do.
Uncasville church	26 17.86	06 27.17	do	Do.
Upper Pole Hill	27 14.38	07 41.13	do	Do.
Vinegar Hill	25 27.37	03 21.53	do	Do.
Wadsworth tower (1875)	49 25.60	47 56.82	do	Do.
Wahginicut	23 43.60	25 45.92	do	Do.
Walden Island	28 06.55	04 08.33	do	Do.
Walkley	29 42.40	32 02.09	do	Do.
Wallingford church spire	27 15.75	49 08.42	do	Do.
Watch House	15 14.99	40 39.13	do	Do.
Water	17 20.00	55 40.34	do	Do.
West, 1 (1869)	23 28.90	05 45.30	do	Do.
West, 2 (1869)	24 04.40	05 55.66	do	Do.
West, 3 (1869)	24 26.68	05 54.99	do	Do.
Westbrook, Congregational church (1861-1882)	17 10.64	27 00.73	do	Do.
Westfield	33 31.17	42 34.15	do	Do.
West Haven spire (1833)	16 17.67	57 02.98	do	Do.
West Haven:				
Key Works, chimney	16 46.26	56 25.12	do	Do.
Congregational church (1876)	16 17.48	57 01.88	do	Do.
West Peak	33 34.90	50 38.78	G. S.	Bull. 122.
West Rock	19 56.42	57 42.61	C. & G. S.	Rept. '88.
West Rock (1882)	15 12.75	32 01.71	do	Do.
West Rock, 2 (1871)	19 56.42	57 42.00	do	Do.
West Rock North	22 58.88	57 44.84	do	Do.
West Rock North, 2 (1875)	23 21.94	57 34.93	do	Do.
West Rock Ridge	25 07.75	57 18.83	do	Do.
West Side church	31 19.35	04 58.70	do	Do.
Westville	19 35.65	58 16.80	do	Do.
Methodist Episcopal church	19 42.80	57 41.27	do	Do.
Wethersfield:				
Flagstaff (1875)	42 45.90	39 10.97	do	Do.
White Congregational church	42 46.70	39 09.60	do	Do.
Williams	21 18.95	31 09.57	do	Do.
Dock	21 37.88	23 28.60	do	Do.
Willow	29 44.08	04 28.80	do	Do.
Winchester Hill	19 28.04	55 18.96	do	Do.
Wire works	17 56.08	53 43.65	do	Do.
Yale College, middle spire	18 30.12	55 44.46	do	Do.
Yale Observatory:				
Center peg	19 28.48	55 19.16	do	Do.
East dome apex	19 28.48	55 18.06	do	Do.
York Hill	24 32.06	55 09.79	do	Do.
	41°-42° ° ' "	73°-74° ° ' "		
Adams	41 09 03.40	73 19 36.48	do	Do.
Americus, tower of Indian Harbor hotel.	00 37.27	37 09.36	do	Do.
Baker	18 20.29	31 20.28	do	Do.
Bald Hill	12 49.82	28 41.68	do	Bull. 122.
Bald Hill, 2 (1882)	12 49.82	28 41.71	do	Rept. '88.
Barn Hill	20 40.42	11 06.77	do	Do.
Beach Point	07 41.46	14 33.38	do	Do.
Bell Island	03 19.80	26 01.76	do	Do.
Benedict	04 24.94	28 23.74	do	Do.
Bennet	16 40.12	06 05.81	do	Do.
Blackburn	21 35.34	11 43.14	do	Do.
Black Rock (1833)	08 38.92	12 57.24	do	Do.
Black Rock, 2 (1834)	08 35.04	12 58.13	do	Do.
Black Rock:				
Light-house (1833-1835)	08 32.58	13 04.09	do	Do.
Beacon	07 14.36	13 03.79	do	Do.

CONNECTICUT—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	°	'	°	'		
	41°-42°		73°-74°			
	°	'	°	'		
Booth.....	41	16 42.43	73	11 06.28	C. & G. S.	Rept. '88.
Bradley.....		10 53.83		17 30.54	do	Do.
Bridgeport:						
Harbor light-house (1882).....	09	24.18	10	49.38	do	Do.
Inner northeast beacon (1833-1882).....	09	58.88	10	35.60	do	Do.
Outer southwest beacon (1833-1882).....	09	47.01	10	45.86	do	Do.
Second Congregational church spire (1882).....	10	32.60	11	24.26	do	Do.
First Congregational church spire (1882).....	10	37.60	11	26.42	do	Do.
First Presbyterian church spire (1882).....	10	29.30	11	42.32	do	Do.
Harbor light-house (1853).....	09	26.26	10	48.40	do	Do.
Middle steeple (1833).....	10	34.76	11	24.83	do	Do.
North steeple (1833).....	10	37.64	11	26.53	do	Do.
St. Augustine Catholic church spire (1882).....	10	48.70	11	45.00	do	Do.
South steeple (1833).....	10	32.51	11	23.95	do	Do.
Brown.....	10	01.82	25	47.64	do	Do.
Brushy Ridge.....	09	24.29	29	00.90	do	Do.
Burns Point.....	12	37.34	03	01.45	do	Do.
Calf Pasture Island.....	04	56.36	23	03.57	do	Do.
Canal.....	05	58.33	22	26.19	do	Do.
Center Redding.....	19	00.62	22	57.91	do	Do.
Charles Island, poplar.....	11	28.16	03	18.96	do	Do.
Chestnut.....	14	13.50	14	14.61	do	Do.
Chestnut Tree Hill.....	26	26.53	05	42.43	do	Do.
Chimon Island (1834).....	04	03.24	23	29.30	do	Do.
Chimon Island, 2 (1882).....	04	04.78	23	29.37	do	Do.
Close.....	04	47.84	38	03.75	do	Do.
Cobble.....	46	37.15	30	04.53	do	Do.
Cockenoes.....	05	01.42	21	20.76	do	Do.
Cockenoes Island, 2 (1882).....	05	01.40	21	21.08	do	Do.
Collins.....	26	20.28	00	44.90	do	Do.
Connecticut.....	57	28.35	29	37.59	do	Do.
Connecticut Monument.....	57	30.00	29	37.56	do	Do.
Copp Island (1834-1885).....	03	34.41	23	15.48	do	Do.
Coram.....	17	52.72	05	04.11	do	Do.
Cronch.....	17	08.85	25	56.32	do	Do.
Cumpo (1834).....	06	50.04	21	00.52	do	Do.
Cumpo, 2 (1882).....	06	49.23	20	58.11	do	Do.
Danbury, Congregational church (1864).....	23	39.87	27	11.87	do	Do.
Davenport.....	07	34.72	31	42.73	do	Do.
Dead Tree Hill.....	17	13.17	18	59.50	do	Do.
Dorlon's Hotel, cupola.....	05	13.21	24	07.70	do	Do.
Dye works, southwest chimney.....	02	52.30	30	15.60	do	Do.
East Bridgeport, Catholic church spire (1884).....	10	54.55	10	44.72	do	Do.
Easton spire (1839).....	15	01.63	18	10.59	do	Do.
Ellsworth.....	48	07.78	27	12.47	do	Do.
Fairfield.....	09	23.92	15	33.68	do	Do.
Congregational church spire (1882).....	08	35.56	15	02.06	do	Do.
Episcopal church spire (1882).....	08	32.58	15	02.89	do	Do.
Presbyterian church spire (1833).....	08	35.99	15	01.57	do	Do.
Ferris, cupola of "Old Greenwich Pt. House.".....	01	04.14	33	49.71	do	Do.
Field Point.....	00	06.50	37	37.92	do	Do.
Fish Island.....	02	54.35	27	28.32	do	Do.
Frost Point.....	06	55.52	18	34.71	do	Do.
Frost Point, 2 (1882).....	06	55.46	18	33.78	do	Do.
Good Hill.....	32	55.52	15	36.75	do	Bull. 122.
Goodridge.....	19	41.89	18	49.19	do	Rept. '88.
Goodsall.....	15	58.50	24	55.52	do	Do.
Gorham.....	11	00.29	23	45.68	do	Do.
Goshen Center Congregational church (1865).....	49	54.11	13	30.74	do	Do.
Gould.....	10	58.50	16	38.38	do	Do.
Great Hill, east.....	21	53.66	07	01.36	do	Do.
Green Farms, spire (1834).....	08	09.62	19	50.77	do	Do.
Green Ledge Spindle.....	02	36.35	25	22.57	do	Do.
Greenfield.....	11	32.29	17	18.69	do	Do.
Church spire (1882).....	10	36.82	17	34.19	do	Do.
Church spire (1833).....	10	37.06	17	34.21	do	Do.
Greenwich Point.....	00	09.90	34	17.40	do	Do.
Greenwich Point, 2 (1882).....	00	14.20	34	26.13	do	Do.
Gunn.....	13	56.53	04	57.96	do	Do.
Handford.....	09	06.74	22	27.02	do	Do.
Hawley.....	19	17.46	14	55.50	do	Do.
Hickcox.....	23	12.43	00	13.53	do	Do.
Hickcox (1839-1876).....	23	12.75	00	13.75	do	Do.

CONNECTICUT—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° ' "	73°-74° ° ' "		
High Ridge	41 16 24.20	73 30 09.06	C. & G. S.	Rept. '88.
Hitchcock	48 04.49	29 42.13	do	Do.
Hobby	03 35.28	36 59.41	do	Do.
Hooper	24 56.46	00 03.97	do	Do.
Horseneck, First Congregational church spire.	02 07.19	37 24.64	do	Do.
Horseneck, spire (1833)	02 06.08	37 24.46	do	Do.
Hospital	11 21.21	10 00.76	do	Do.
Hunt	18 24.28	32 54.32	do	Do.
Ivy	52 18.50	13 27.93	do	Rept. '85.
Jackson	15 06.59	17 00.41	do	Rept. '88
Johnson	10 04.88	10 04.08	do	Do.
Kensies Point	07 33.24	16 22.52	do	Do.
Lambert	48 10.94	30 13.25	do	Do.
Litchfield:				
Congregational church (1865)	44 52.26	11 18.49	do	Do.
Episcopal church (1865)	44 46.21	11 19.29	do	Do.
Loaf Hill	19 34.70	29 55.06	do	Do.
Lockwood	05 34.61	29 04.16	do	Do.
Lone Chimney	09 18.30	13 05.11	do	Do.
Long Neck	02 11.10	28 40.88	do	Do.
Long Neck, 2 (1882)	02 10.41	28 41.85	do	Do.
McDonald	13 08.44	09 11.26	do	Do.
Mead (1864)	18 07.34	32 53.13	do	Do.
Merwin	14 09.09	19 57.60	do	Do.
Miles Fish Works chimney	12 07.60	02 18.20	do	Do.
Milford	13 26.43	01 15.51	do	Do.
Congregational spire (1833-1884)	13 36.63	03 33.03	do	Do.
Episcopal church spire	13 27.23	03 27.73	do	Do.
Old spire with gilt ball	13 37.46	03 25.97	do	Do.
Point	10 42.67	05 51.92	do	Do.
Mill Hill	08 49.37	16 42.32	do	Do.
Mohawk	49 16.80	17 49.50	G. S.	Bull. 122.
Monroe:				
Belfry (1839)	19 55.38	12 24.48	C. & G. S.	Rept. '88.
Tall spire (1839)	19 58.84	12 26.90	do	Do.
Moose Hill, east	24 05.57	06 53.36	do	Do.
Moose Hill, Fairfield County	19 11.73	12 06.09	do	Do.
Mount Tom	41 36.43	16 25.54	do	Bull. 122.
Nash	06 04.80	25 41.60	do	Rept. '88.
Newton	25 51.86	02 04.58	do	Do.
Nichols	08 49.10	08 10.72	do	Do.
Norfield, spire (1834)	12 10.31	22 40.51	do	Do.
North Milford, spire	16 42.20	01 35.36	do	Do.
Norton	03 16.70	30 53.07	do	Do.
Norton Point	03 19.32	26 19.40	do	Do.
Norwalk, north spire (1834)	07 14.62	24 28.56	do	Do.
Norwalk Islands, light-house (1834)	02 55.43	25 10.52	do	Do.
Norwalk Islands, light-house (1882-1885)	02 55.74	25 10.53	do	Do.
Norwalk River beacon (1882)	04 23.70	24 22.10	do	Do.
Norwalk, south spire (1834)	07 07.66	24 30.78	do	Do.
Old Farms	14 53.06	09 18.82	do	Do.
Osborne	23 37.47	12 44.87	do	Do.
Palmer	03 40.87	34 06.19	do	Do.
Patrick	17 36.24	31 18.62	do	Do.
Pavement	11 37.34	17 17.35	do	Do.
Peck	22 54.11	03 30.47	do	Do.
Pett Hill	40 02.37	26 08.97	do	Do.
Penfield Reef, light-house (1882)	07 01.57	13 21.01	do	Do.
Picket Ridge	19 29.41	27 11.43	do	Do.
Pine Creek Point (1833)	07 06.34	15 42.24	do	Do.
Pine Creek Point, 3 (1882)	07 07.37	15 42.99	do	Do.
Pine Swamp Hill	21 09.10	16 29.21	do	Do.
Pond Point	12 41.24	00 38.20	do	Do.
Preston, stone church (1865)	40 37.16	22 22.82	do	Do.
Preston, white spire (1865)	41 05.78	18 42.98	do	Do.
Prospect Hill	58 45.11	23 06.28	do	Do.
Ram Island	03 32.83	24 12.52	do	Do.
Redding Ridge	18 11.10	21 12.32	do	Do.
Redding, spire (1839)	18 49.68	21 04.34	do	Do.
Ridgefield:				
Episcopal church (1865)	16 49.50	29 59.05	do	Do.
Presbyterian church (1839)	16 30.47	29 52.89	do	Do.
Riggs	24 44.15	07 48.73	do	Do.
Rock	00 06.57	37 41.22	do	Do.
Rockhouse Hill	23 04.94	08 22.13	do	Do.
Round Hill	06 13.17	40 25.79	do	Do.
Round Hill, 2 (1882)	06 13.02	40 26.23	do	Do.
Saugatuck	07 28.00	19 23.08	do	Do.
Scofield	08 20.92	34 52.98	do	Do.

CONNECTICUT—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° " "	73°-74° " "		
Seaside Park, soldiers' monument....	41 09 41.58	73 11 11.92	C. & G. S.	Rept. '88.
Sheffield Island.....	02 50.20	25 21.73	do.	Do.
Sheffield, west.....	02 52.01	25 27.59	do.	Do.
Sherwood.....	12 09.04	13 24.07	do.	Do.
Shippan.....	01 32.23	31 10.65	do.	Do.
Shippan Point.....	01 12.22	31 24.38	do.	Do.
Old chimney.....	01 28.00	31 12.02	do.	Do.
Skagerat.....	24 46.21	03 08.84	do.	Do.
Southport:				
Congregational church spire (1882).....	08 06.28	17 12.90	do.	Do.
Episcopal Church spire (1882).....	08 00.25	17 16.84	do.	Do.
Inner beacon (1882).....	07 33.45	17 15.45	do.	Do.
Outer beacon (1882).....	07 18.86	17 15.72	do.	Do.
South Whitehall.....	19 12.91	07 56.23	do.	Do.
Spindle.....	00 21.54	36 44.77	do.	Do.
Stamford:				
Baptist church spire (1882).....	03 18.68	32 21.29	do.	Do.
Congregational church spire (1882).....	03 08.94	32 24.22	do.	Do.
Harbor, light-house (1882-1885).....	00 49.21	32 34.74	do.	Do.
Northeast spire (1834).....	03 14.76	32 03.19	do.	Do.
Southwest spire (1834).....	03 12.78	32 21.98	do.	Do.
Stanwick.....	06 33.32	36 51.06	do.	Do.
Star.....	18 46.66	27 39.18	do.	Do.
Stratford:				
Beacon (1881-1884).....	09 47.11	06 14.89	do.	Do.
Beacon (1833).....	09 47.05	06 14.82	do.	Do.
Congregational church spire (1884).....	11 33.20	07 51.82	do.	Do.
Episcopal church spire (1884).....	11 18.68	07 50.06	do.	Do.
Hill.....	13 08.36	09 10.79	do.	Do.
Point.....	09 28.72	07 05.12	do.	Do.
Point, light-house (1881-1885).....	09 07.22	06 13.47	do.	Do.
Point, light-house (1833).....	09 07.24	06 13.18	do.	Do.
Spire (1833).....	11 19.44	07 50.17	do.	Do.
Do.....	11 32.84	07 51.56	do.	Do.
St. John.....	06 58.31	25 31.86	do.	Do.
Summerville.....	20 32.78	03 28.56	do.	Do.
Tashua.....	15 37.84	15 01.33	do.	Do.
Church (1839).....	17 13.31	15 38.87	do.	Do.
Tavern Island.....	03 39.14	25 20.80	do.	Do.
Flagstaff (1882).....	03 39.01	25 20.82	do.	Do.
Thorpe.....	07 59.10	19 09.00	do.	Do.
Trumbull.....	17 46.94	15 44.52	do.	Do.
Van, cupola of Shippan Point House.....	01 40.87	31 10.84	do.	Do.
Wallack.....	02 11.49	30 22.80	do.	Do.
Warren Observatory, flagstaff (1864).....	43 37.45	21 13.14	do.	Do.
Watchhouse on rock, west gable.....	02 23.64	29 21.98	do.	Do.
Webb.....	06 53.01	34 09.84	do.	Do.
Wells.....	14 18.20	07 03.23	do.	Do.
West Marsh.....	04 46.56	24 36.24	do.	Do.
West Rocks.....	08 06.78	24 55.06	do.	Do.
Wheeler.....	15 13.48	19 41.40	do.	Do.
Whitehall church (1839).....	20 02.80	08 52.37	do.	Do.
Wilson Point, depot cupola.....	03 46.65	25 45.73	do.	Do.
Woodbridge:				
Pointed spire.....	21 14.63	00 48.72	do.	Do.
Round spire.....	21 17.81	00 46.17	do.	Do.
Wooster Mountain.....	21 03.98	29 18.14	do.	Bull. 122.
Great Captain Island:	40°-41°	73°-74°		
Light-house (1882-1885).....	40 58 57.10	73 37 23.40	do.	Rept. '88.
Light-house (1834).....	58 57.18	37 26.50	do.	Do.
Little Captain Island.....	59 24.93	36 31.01	do.	Do.
Little Captain Island, 2 (1882).....	59 24.97	36 31.10	do.	Do.
Little Captain Island, 3 (1882).....	59 19.97	36 38.95	do.	Do.
Mead.....	59 52.00	39 03.26	do.	Do.

NEW YORK.

	45°-46° " "	74°-75° " "		
Massena Point, triangulation station....	45 00 01.67	74 46 11.79	Engr. Corps.	Rept. '76.
	44°-45°	73°-74°		
Bald Peak.....	44 06 13.00	73 29 15.00	C. & G. S.	Do.
Barber Point, light-house.....	09 15.84	24 17.39	do.	Do.
Bigelow.....	26 54.12	28 09.62	do.	

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	44°-45°	73°-74°		
Blueberry Hill.....	44 00 15.33	73 33 58.33	C. & G. S.	
Boquet River Point.....	21 35.67	21 20.54	do	
Catamount.....	27 34.26	52 21.76	do	
Cheever.....	04 54.05	27 02.84	do	
Clinton Mills chimney.....	57 33.74	52 53.41	G. S.	
Cherubusco.....	57 15.63	55 15.03	do	Bull. 122.
Crab Isle.....	39 54.51	25 02.09	C. & G. S.	
Crown Point light-house.....	01 47.69	25 19.24	do	
Cumberland Point.....	41 34.43	23 28.99	do	
Dannemora.....	44 30.04	42 57.60	do	Do.
Dunn.....	49 40.85	24 10.67	do	
Giant of the Valley.....	09 40.39	43 14.71	do	
Hagar.....	42 52.42	23 22.12	do	
Haseltine.....	49 38.34	55 56.95	G. S.	Do.
Hendrick.....	00 49.62	27 29.20	C. & G. S.	
Hurricane.....	14 07.23	42 38.09	do	
Ligonier Point.....	24 53.04	21 55.17	do	
Lyon, 2.....	42 16.74	51 48.74	do	Do.
Macomb.....	02 48.59	46 58.66	do	
McIntyre, summit.....	08 37.00	59 14.00	do	
Moore.....	57 53.71	51 36.52	G. S.	Do.
Mount Dix.....	04 54.51	47 12.22	C. & G. S.	
Mount Marcy.....	06 46.04	55 26.99	do	
Poke-a-moonshine.....	24 06.31	30 48.83	do	
Rams Head.....	46 45.26	22 50.78	do	
Rand.....	45 28.87	36 43.99	do	
Selden.....	19 30.98	21 08.48	do	
Split Rock Point.....	15 54.96	19 44.31	do	
Trembleau Point.....	31 04.44	23 09.82	do	
West Hill.....	51 18.11	58 31.08	G. S.	Do.
Whiteface.....	21 56.99	54 12.77	C. & G. S.	
	44°-45°	75°-76°		
Alexandria.....	44 19 38.90	75 55 23.40	L. S.	Final Rept.
Thousand Island House.....	20 15.20	55 16.40	do	Do.
Boundary post No. 2, Franklin County.....	59 58.20	39 32.20	do	Do.
Brook Point.....	36 54.40	36 38.00	do	Do.
Buckminster.....	01 32.44	59 25.80	G. S.	Bull. 122.
Chapman.....	33 32.60	41 46.90	L. S.	Final Rept.
Chimney Point.....	43 55.70	26 56.40	do	Do.
Crossover Island light-house.....	29 48.60	46 44.10	do	Do.
Dingham.....	21 19.00	53 04.50	do	Do.
Hall Dock.....	32 46.70	42 45.90	do	Do.
Lyons.....	25 01.50	49 00.70	do	Do.
Miller.....	14 21.87	45 22.13	G. S.	Bull. 122.
Morristown Point.....	35 55.50	38 33.50	L. S.	Final Rept.
Oak Point.....	30 56.90	45 13.10	do	Do.
Ogdensburg:				
East base.....	42 29.60	27 56.30	do	Do.
West base.....	42 19.00	28 48.50	do	Do.
Light-house, or A.....	41 52.30	30 14.50	do	Do.
Light-house, peak of.....	41 52.30	30 14.00	do	Do.
Peach Island.....	29 27.80	46 07.90	do	Do.
Sharp.....	49 07.00	17 40.80	do	Do.
Sister Island, light-house.....	24 50.80	50 41.90	do	Do.
Sparrowhawk.....	48 02.80	20 43.30	do	Do.
Sunken Rock, light-house.....	20 44.60	54 57.40	do	Do.
Taylor.....	33 05.20	42 23.70	do	Do.
Wagner.....	46 25.00	21 43.20	do	Do.
	44°-45°	76°-77°		
Cape Vincent.....	44 07 31.40	76 20 32.10	do	Do.
East base.....	07 41.60	17 34.70	do	Do.
West base.....	07 54.00	18 55.30	do	Do.
Carlton.....	10 58.97	17 38.75	do	Do.
Clayton:				
Roman Catholic church.....	14 18.80	05 12.20	do	Do.
South base, Jefferson County.....	14 04.10	04 34.10	do	Do.
Daly.....	10 03.60	18 35.10	do	Do.
Dorr farm.....	14 37.90	03 21.70	do	Do.
Ellis.....	08 34.20	17 44.00	do	Do.
Grenadier.....	02 11.71	22 32.40	do	Do.
Grindstone.....	16 04.00	08 57.80	do	Do.
Hogsback.....	12 02.20	09 08.10	do	Do.
Pamela.....	05 24.76	52 34.78	G. S.	Bull. 122.
Rock Island light-house.....	16 49.00	01 02.00	L. S.	Final Rept.
Seeber.....	06 28.26	00 54.81	G. S.	Bull. 122.
Tibbett Point, light-house.....	06 02.30	22 15.40	L. S.	Final Rept.
Wolfe.....	07 31.12	23 19.98	do	Do.
	43°-44°	73°-74°		
Ambler.....	43 05 36.56	73 51 08.73	S. S.	Rept. '87.
Austin.....	35 03.78	24 34.98	C. & G. S.	

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	43°-44°	73°-74°		
Bailey	43 04 09.77	73 39 17.54	S. S.	Rept. '87.
Ballston	00 48.00	51 03.00	do	Rept. '83.
Barber	34 46.32	26 02.68	C. & G. S.	
Birch	20 18.94	20 11.01	G. S.	Bull. 122.
Black Mountain	36 24.30	31 53.90	C. & G. S.	
Breed Hill	55 19.37	25 43.27	do	
Brimstone	44 45.28	25 00.49	do	
Crain	32 41.83	57 46.36	do	
Crown Point, south base	58 51.07	25 29.44	do	
Felton Hill	01 05.64	28 10.40	G. S.	Do.
Greenwich	07 35.12	31 30.61	C. & G. S.	Do.
Jackson	04 41.28	23 59.08	G. S.	Do.
Londonville, home lawn flag pole	43 42.91	45 35.78	S. S.	Rept. '87.
Mount Tom	41 47.26	24 41.28	C. & G. S.	
Prospect	25 17.95	46 04.57	do	Rept. '85.
Rascal	15 39.49	24 15.63	G. S.	Bull. 122.
Saratoga	04 07.40	47 22.92	S. S.	Rept. '87.
Saratoga Springs:				
Methodist Episcopal church spire	04 49.53	47 16.08	do	Do.
Presbyterian church spire	05 02.55	47 03.99	do	Do.
Catholic church spire	04 35.62	47 14.46	do	Do.
Skeenes	33 26.03	23 48.28	C. & G. S.	
Snody	36 50.25	26 26.75	do	
	43°-44°	74°-75°		
Bart Hill	43 07 50.07	74 53 24.38	S. S.	
Barto	07 50.07	53 24.37	do	Rept. '87.
Broadalbin:				
Baptist church cupola	03 28.94	11 55.19	do	Do.
Methodist Episcopal church, tower	03 27.11	11 59.81	do	Do.
Clip Hill	03 04.06	25 29.90	do	Do.
County line, stone No. 88, between Fulton and Montgomery counties.	01 09.00	39 42.00	do	Rept. '83.
Fairfield:				
Academy	08 18.12	54 47.24	do	Rept. '87.
Methodist Episcopal church	08 13.52	54 51.99	do	Do.
Presbyterian church or town hall	08 18.74	54 59.60	do	Do.
Protestant Episcopal church	08 09.20	54 40.43	do	Do.
Galway	04 05.30	02 35.49	do	Do.
Gloversville:				
Baptist church spire	02 56.16	20 49.46	do	Do.
Collins Bros.' building, flag pole	03 04.90	20 44.19	do	Do.
Congregational church, white spire	03 03.19	20 39.82	do	Do.
First Methodist Episcopal church spire	03 06.88	20 48.14	do	Do.
First Presbyterian church spire	03 02.34	20 48.38	do	Do.
Gore	40 15.10	02 58.49	C. & G. S.	
Hamilton	24 41.82	22 00.15	do	
Herkimer	01 37.10	56 55.24	S. S.	Do.
Court-house	01 44.56	59 21.96	do	Do.
Dutch Reformed church	01 44.55	59 24.56	do	Do.
Methodist Episcopal church	01 32.49	59 20.53	do	Do.
Schoolhouse	01 41.17	59 13.32	do	Do.
Johnstown:				
Court-house dome	00 24.01	22 30.02	do	Do.
Fire department house pinnacle	00 18.77	22 29.15	do	Do.
First Baptist church spire	00 22.23	22 32.03	do	Do.
Martin Kennedy's house pinnacle	00 10.32	22 28.60	do	Do.
Presbyterian church spire	00 16.50	22 23.65	do	Do.
St. Patrick's Roman Catholic church spire	00 15.50	22 09.48	do	Do.
St. Paul's Lutheran church spire	00 28.56	22 17.33	do	Do.
Sjr W. Johnson hotel flag pole	00 24.97	22 29.41	do	Do.
United Presbyterian church spire	00 26.71	22 24.17	do	Do.
Kingsboro	05 05.53	21 28.15	do	Do.
Presbyterian church tower	04 01.70	20 13.46	do	Do.
Schoolhouse cupola	03 57.22	20 12.78	do	Do.
Little Falls	02 59.51	51 38.18	do	Do.
Baptist church	02 35.75	51 26.27	do	Do.
Methodist Episcopal church	02 34.66	51 28.87	do	Do.
Presbyterian church	02 43.17	51 32.62	do	Do.
Roman Catholic church (new), Church of the Assumption	02 37.73	51 12.15	do	Do.
Roman Catholic church (old)	02 41.45	51 08.19	do	Do.
Mayfield:				
Methodist church tower (white)	06 19.48	15 50.78	do	Do.
Presbyterian church, white, four-pinnacled tower	06 19.80	15 48.70	do	Do.
Middle Sprite, Free Methodist church	07 15.82	38 20.78	do	Do.
North Galway, Christian church	03 57.19	03 15.13	do	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	43°-44° " "	74°-75° " "		
Oppenheim, Methodist Episcopal church.	43 04 23.17	74 41 36.38	S. S.	Rept. '87
Perth Center, United Presbyterian church tower.	01 08.04	11 26.69	do	Do.
Royal Hill	05 08.67	31 07.95	do	Do.
St. Johnsville	00 24.92	40 12.25	do	Do.
Grace Protestant Episcopal church cross.	00 01.57	40 46.08	do	Do.
Schoolhouse cupola.	00 03.23	40 35.36	do	Do.
Snowy Mountain	41 55.53	23 13.45	C. & G. S.	
Speculator	27 36.03	20 24.94	do	
Twin:				
Methodist Episcopal church	02 21.23	42 52.95	S. S.	Do.
Union church	02 22.56	42 53.42	do	Do.
Van der Whacken	53 53.74	05 46.96	C. & G. S.	
Vedder	01 07.65	39 02.59	S. S.	Do.
West Galway:				
Methodist Episcopal church	00 23.24	06 08.42	do	Do.
Presbyterian church	00 20.20	06 07.96	do	Do.
North Presbyterian church tower	00 22.00	06 09.00	do	Do.
Scotch Presbyterian church	00 14.09	06 09.45	do	Do.
West Perth	00 30.60	16 18.44	do	Do.
	43°-44° " "	75°-76° " "		
Allis	43 05 18.17	75 48 06.64	do	Do.
Amboy	23 14.20	55 07.54	do	Do.
Boynon	53 52.46	55 41.02	C. & G. S.	Bull. 122.
Bridgeport, Methodist Episcopal church.	09 23.09	58 12.44	S. S.	Rept. '87.
Bulger	03 55.89	39 59.75	do	Do.
Canastota	04 20.64	44 20.44	do	Do.
Baptist church	04 23.62	45 08.22	do	Do.
Free church	04 41.71	45 11.20	do	Do.
Methodist Episcopal church	04 51.81	45 19.90	do	Do.
Carl	51 37.67	46 56.10	C. & G. S.	Bull. 122.
Chittenango Station, Free Methodist church.	05 15.34	52 22.93	S. S.	Rept. '87.
Churchville:				
German Lutheran church (east).	11 30.42	34 16.77	do	Do.
German Lutheran church (west).	11 27.19	34 21.61	do	Do.
Seven-Day Baptist church	11 21.95	34 32.10	do	Do.
Cleveland, Protestant Episcopal church.	14 02.25	52 54.64	do	Do.
Clinton	03 17.00	01 37.44	do	Do.
Cranston	01 04.01	46 02.07	do	Do.
Deerfield Corners:				
Baptist church	06 51.15	12 08.17	do	Do.
St. Peter's church, Roman Catholic	06 58.93	12 37.54	do	Do.
Deveraux	04 46.71	14 54.11	do	Do.
Durhamville:				
Baptist church	07 05.65	40 10.10	do	Do.
German Catholic church	07 09.58	40 07.96	do	Do.
Eagle	01 25.86	55 10.83	do	Do.
Eaton	01 43.99	33 19.38	do	Do.
Fish Creek, Union church	13 12.59	41 56.49	do	Do.
Florence C. S.	23 14.49	39 36.30	do	Do.
Floyd Corners	13 09.86	20 06.10	do	Do.
Greene	51 22.53	48 53.76	C. & G. S.	Bull. 122.
Hamilton College, chapel dome	03 07.13	24 21.29	S. S.	Rept. '87.
Higginsville, Presbyterian church	10 34.71	38 40.62	do	Do.
Ilion	00 36.00	01 52.39	do	Do.
Presbyterian church	00 48.03	02 20.34	do	Do.
St. Mary's church, Roman Catholic	00 41.58	01 45.18	do	Do.
Johnson	57 16.05	50 33.36	C. & G. S.	Bull. 122.
Jackson	05 54.86	01 41.39	S. S.	Do.
Kirkville	04 19.54	56 16.23	do	Rept. '87.
Methodist Episcopal church	04 31.00	57 04.85	do	Do.
Lowrey	41 47.37	59 55.94	C. & G. S.	Bull. 122.
Manlius Station, Methodist Episcopal church.	04 41.94	59 55.74	S. S.	Rept. '87.
Merry	02 51.54	10 24.00	do	Do.
Mohawk:				
Dutch Reformed church	00 36.42	00 19.83	do	Do.
Methodist Episcopal church	00 43.31	00 10.12	do	Do.
Universalist church	00 39.79	00 29.48	do	Do.
New York Mills Methodist Episcopal church.	06 13.01	17 36.79	do	Do.
North Gage, Union church	13 23.17	07 12.32	do	Do.
North Manlius P. O.:				
Baptist church	05 57.91	58 22.11	do	Do.
Methodist Episcopal church	06 01.22	58 20.75	do	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	43°-44°	75°-76°		
Oneida:	° "	° "		
Baptist church.....	43 05 37.29	75 39 06.25	S. S.....	Rept. '87.
Opera-house dome.....	05 44.29	39 10.45	do.....	Do.
Presbyterian church.....	05 38.45	39 06.91	do.....	Do.
Castle Presbyterian church.....	04 46.07	38 06.51	do.....	Do.
Perryville, Protestant Episcopal church.....	00 24.81	47 57.27	do.....	Do.
Prospect.....	02 15.39	26 40.36	do.....	Do.
Quality Hill, Presbyterian church.....	04 03.39	46 33.31	do.....	Do.
Ridgeville, Presbyterian church.....	07 57.27	47 28.96	do.....	Do.
Rome.....	14 03.00	27 58.13	do.....	Do.
Baptist church.....	12 58.74	27 33.25	do.....	Do.
First Methodist Episcopal church.....	12 59.08	27 30.77	do.....	Do.
German Catholic church.....	12 48.27	27 33.95	do.....	Do.
Presbyterian church.....	12 49.47	27 23.37	do.....	Do.
St. Joseph's church (Roman Catholic).....	12 28.22	27 44.19	do.....	Do.
Welsh Presbyterian church.....	12 52.61	27 33.22	do.....	Do.
Russia Union church.....	15 28.76	04 47.63	do.....	Do.
Schuyler.....	09 43.94	06 59.12	do.....	Do.
Starr.....	20 42.20	14 59.31	do.....	Rept. '87.
Thomas.....	34 36.42	58 54.09	C. & G. S.	Bull. 122.
Tyler, Wesleyan Methodist church.....	05 40.74	54 50.04	S. S.....	Rept. '87.
Utica:				
City hall, flag pole.....	06 03.47	13 58.48	do.....	Do.
First Methodist Episcopal church.....	06 01.09	14 08.94	do.....	Do.
First Dutch Reformed church.....	05 55.60	14 14.59	do.....	Do.
First Presbyterian church.....	06 07.33	13 58.95	do.....	Do.
Grace Protestant Episcopal church.....	06 04.41	13 53.36	do.....	Do.
St. Patrick's church (Roman Catholic).....	06 15.36	14 28.33	do.....	Do.
Trinity Protestant Episcopal church.....	06 09.26	13 25.04	do.....	Do.
Westminster church.....	06 02.18	14 03.28	do.....	Do.
Vernon:				
Baptist church.....	04 47.02	32 31.39	do.....	Do.
Methodist Episcopal church.....	04 43.39	32 29.00	do.....	Do.
Presbyterian church.....	04 39.73	32 35.09	do.....	Do.
Unitarian church.....	04 45.41	32 28.80	do.....	Do.
Vernon Center:				
Methodist Episcopal church.....	03 11.21	30 08.94	do.....	Do.
Presbyterian church.....	03 11.20	30 05.91	do.....	Do.
Verona:				
Methodist Episcopal church.....	08 13.82	34 18.43	do.....	Do.
Presbyterian church.....	08 18.71	34 15.85	do.....	Do.
Vienna.....	14 49.63	40 47.47	do.....	Do.
Methodist Episcopal church.....	14 21.43	42 10.08	do.....	Do.
Watertown, court-house, northeast corner of cupola.....	58 32.88	55 01.95	L. S.....	Final Rept.
Wampsville, Presbyterian church.....	04 29.99	42 20.98	S. S.....	Rept. '87
Westmoreland, Presbyterian church.....	06 56.61	24 21.34	do.....	Do.
West Schuyler, Methodist Episcopal church.....	05 55.73	09 09.96	do.....	Do.
Whitesboro, Baptist church.....	07 23.86	17 34.03	do.....	Do.
Williams.....	10 15.13	13 20.90	do.....	Do.
	43°-44°	76°-77°		
Amboy, Presbyterian church spire.....	43 04 14.00	76 16 19.00	do.....	Rept. '83.
Big Sodus, light-house, Wayne County.....	16 25.70	59 11.80	L. S.....	Final Rept.
Brayton barn, cupola, west wing.....	04 14.33	04 47.09	S. S.....	Rept. '87
Brewerton, west spire of Disciples church.....	14 16.21	08 26.26	do.....	Do.
Carpenter.....	00 33.93	17 05.36	do.....	Do.
Cassett.....	00 02.19	11 35.09	do.....	Do.
Central Square, church spire.....	17 13.50	08 45.88	do.....	Do.
Chestnut Ridge.....	05 48.66	11 14.77	do.....	Do.
Clyde, L. S.....	03 05.07	51 49.34	do.....	Do.
Collamer.....	06 04.87	03 28.77	do.....	Do.
Methodist Episcopal church.....	06 15.13	09 53.64	do.....	Do.
Colwell.....	41 40.56	11 10.78	G. S.....	Bull. 122.
Constantia, Presbyterian church.....	14 55.00	00 11.00	S. S.....	Rept. '83.
Cooper.....	57 48.20	16 41.50	L. S.....	Bull. 122.
Davison.....	06 07.41	17 04.12	S. S.....	Rept. '87.
Deuel.....	54 23.90	12 29.30	do.....	Do.
Draper.....	03 02.67	12 10.75	do.....	Do.
Dyke.....	31 39.54	14 24.76	G. S.....	Bull. 122.
Fairmount.....	02 36.75	15 22.68	S. S.....	Rept. '87.
Fayetteville:				
Presbyterian church.....	01 45.50	00 27.09	do.....	Do.
Protestant Episcopal church.....	01 45.76	00 25.23	do.....	Do.
Roman Catholic church.....	01 47.21	00 16.20	do.....	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	43°-44° ° ' "	76°-77° ° ' "		
Fox.....	43 58 05.63	76 12 04.20	L. S.	Rept. '87.
Fulton, Falley Academy	19 17.00	24 43.00	S. S.	Rept. '83.
Galloo.....	55 07.60	24 36.10	L. S.	Final Rept.
Light-house	53 18.60	26 41.90	do	Do.
Gasport.....	11 56.77	32 31.90	do	Do.
Geddes, Methodist Episcopal church.	03 07.17	11 23.97	S. S.	Rept. '87.
Gilbertsville.....	18 42.32	17 49.66	do	Do.
Gleason.....	52 48.90	15 32.80	L. S.	Bull. 122.
Greene.....	31 30.80	22 24.20	do	Do.
Houston.....	31 30.30	15 19.20	do	Do.
Hovey.....	53 04.77	14 09.99	G. S.	Do.
Kingsley.....	07 12.90	18 00.25	S. S.	Rept. '87.
Liverpool, Methodist Episcopal church spire.....	06 13.72	12 24.86	do	Do.
Loomis.....	21 18.46	17 10.37	C. & G. S.	Bull. 122.
Mannsville.....	42 54.41	03 14.61	L. S.	Do.
Munn Davis.....	09 47.34	18 44.36	S. S.	Rept. '87.
North base, between Jefferson and Oswego counties.....	40 43.61	12 02.03	L. S.	
Northup.....	00 03.70	21 25.39	S. S.	Do.
Olympus.....	02 04.24	07 55.56	do	Do.
Onondaga Hill, Presbyterian church..	00 12.53	11 00.98	do	Do.
Oswego.....	26 37.28	30 50.41	L. S.	Final Rept.
Do.....	26 39.57	30 53.55	do	Do.
Court-house.....	27 26.00	30 22.80	do	Do.
Light-house.....	27 53.90	30 50.90	do	Do.
Sacketts Harbor, or Horse Island, light-house.....	56 34.70	08 43.00	do	Do.
Sandy Creek.....	39 06.93	06 08.40	do	Bull. 122.
Sherwood.....	02 13.45	17 17.22	S. S.	Rept. '87.
Silver Star, St. Mary's church.....	05 15.29	00 08.33	do	Do.
Sorrel Hill.....	06 51.54	21 23.62	do	Do.
South base.....	38 05.19	11 51.52	L. S.	
Stony Point.....	50 47.56	17 28.19	do	Final Rept.
Light-house.....	50 21.60	17 56.80	do	Do.
Syracuse:				
First Presbyterian church spire..	02 54.73	09 08.26	S. S.	Rept. '87.
St. John's Roman Catholic church spire.....	04 06.74	09 28.81	do	Do.
St. Lucy's Roman Catholic church spire.....	02 36.27	09 45.39	do	Do.
Tanner.....	01 14.82	33 29.82	do	Do.
Victory L. S.....	13 06.82	36 22.13	do	Do.
	43°-44° ° ' "	77°-78° ° ' "		
Brockport.....	43 11 28.81	77 56 03.68	L. S.	Final Rept.
Baptist church.....	12 49.70	56 23.50	do	Do.
Corner of lots 5, 8, 11, 14	11 54.00	56 39.30	do	Do.
Genesee, light-house.....	15 09.80	36 40.20	do	Do.
Palmyra L. S.....	04 03.76	09 37.78	S. S.	Rept. '87
Pinnacle Hill.....	08 06.47	35 10.67	L. S.	
Rochester:				
City Hall statue.....	09 22.44	36 51.00	do	Final Rept.
Court-house.....	09 18.10	36 50.70	do	Do.
Tower of waterworks.....	12 45.80	37 36.70	do	Do.
Sodus.....	14 13.74	04 44.74	do	Do.
Dome of Academy.....	14 08.50	04 09.30	do	Do.
Turk Hill.....	02 10.44	25 23.26	S. S.	Rept. '87.
Walworth.....	09 22.43	20 01.25	L. S.	Final Rept.
	43°-44° ° ' "	78°-79° ° ' "		
Alabama Center:				
Baptist church spire.....	43 05 42.49	78 23 22.08	S. S.	Rept. '87.
Methodist Episcopal church spire.	05 45.49	23 19.90	do	Do.
Albion.....	14 22.65	09 19.67	L. S.	Final Rept.
Albion Cemetery, soldier's head on monument.....	11 22.75	19 29.76	S. S.	Rept. '87.
Barre Center, Presbyterian church ..	11 06.80	11 41.24	do	Do.
Batavia.....	01 18.05	15 45.63	do	Do.
Blind Institute, flag pole	00 21.51	11 05.99	do	Do.
Bumpus.....	05 48.63	17 34.41	do	Do.
Dillingham's house, center.....	05 47.67	17 35.01	do	Do.
East Shelby.....	10 03.45	19 58.83	do	Do.
Advent church spire.....	10 10.87	19 31.20	do	Do.
Methodist Episcopal church spire.	09 23.65	19 32.30	do	Do.
Edwards.....	08 54.61	22 03.90	do	Do.
Elba.....	05 32.26	08 42.99	do	Do.
Methodist Episcopal church spire.	04 51.46	11 06.94	do	Do.
Presbyterian church spire.....	04 58.19	11 11.96	do	Do.
Schoolhouse cupola, district No. 2.	05 28.46	09 23.91	do	Do.
Falkirk.....	01 22.85	28 58.22	L. S.	Final Rept.
Genung.....	09 42.98	10 33.96	S. S.	Rept. '87.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	43°-44° ° ' "	78°-79° ° ' "		
Kimpton's (S.) barn, west cupola.....	43 09 30.33	78 11 11.85	S. S.	Rept. '87.
Macomber, 302.....	04 39.34	18 39.60	do	Do.
Macomber's, J. S., house tower.....	04 38.52	18 41.29	do	Do.
Monument 300.....	11 09.46	11 40.14	do	Do.
Monument 363.....	09 50.54	19 31.47	do	Do.
Monument 367.....	04 57.51	11 12.17	do	Do.
Morganville (L. S.).....	00 40.11	02 58.60	do	Do.
Christian church tower.....	00 13.44	04 35.40	do	Do.
Oakfield.....	04 05.72	16 25.68	do	Do.
Methodist Episcopal church tower.....	01 01.90	16 24.05	do	Do.
Presbyterian church tower.....	04 06.14	16 24.76	do	Do.
Seminary tower.....	03 55.90	16 09.92	do	Do.
Parker.....	06 56.40	09 50.49	do	Do.
Pekin.....	10 14.70	52 31.28	L. S.	Final Rept.
Pond.....	03 35.94	19 38.56	S. S.	Rept. '87.
Pumpkin Hill, Baptist church.....	05 51.89	04 01.41	do	Do.
Pusel.....	09 56.73	15 47.60	do	Do.
Quaker church, east gable.....	06 01.20	11 37.72	do	Do.
Ross.....	10 43.20	21 29.95	do	Do.
Ryan.....	10 25.76	24 37.39	do	Do.
South Alabama, Baptist church spire.....	04 23.46	20 07.61	do	Do.
Tall Tree.....	10 12.80	23 35.66	do	Do.
Thirty-mile Point, light.....	22 29.60	29 11.80	L. S.	Final Rept.
Tonawanda.....	00 03.84	53 21.91	do	Bull. 122.
Vulgary.....	06 54.09	12 12.11	S. S.	Rept. '87.
Watson's (David) barn, west gable.....	06 44.77	07 57.59	do	Do.
West Barre, Methodist Episcopal church cupola.....	09 07.13	15 11.47	do	Do.
West Shelby, Methodist Episcopal church spire.....	09 39.26	26 12.95	do	Do.
Yates, spire of church.....	20 15.80	23 17.50	L. S.	Final Re
	43°-44° ° ' "	79°-80° ° ' "		
Fort Niagara, light-house.....	43 15 42.30	79 03 40.00	do	Do.
Niagara Falls, northeast tower of railroad suspension bridge.....	06 34.10	03 26.30	do	Do.
	42°-43° ° ' "	73°-74° ° ' "		
Abutment.....	42 39 15.26	73 44 39.80	S. S.	Rept. '87.
Academy Hill.....	14 37.87	46 36.24	do	Do.
Adams.....	59 52.82	21 04.00	C. & G. S.	Bull. 122.
Adamsville, Methodist Episcopal church.....	37 21.66	50 11.36	S. S.	Rept. '87.
Albany:				
Academy of the Sacred Heart.....	37 40.13	40 21.06	do	Do.
Congregational Church spire.....	38 57.98	45 26.92	do	Do.
Cathedral spire.....	38 51.31	45 35.55	do	Do.
Dudley Observatory, center of equatorial dome.....	39 51.81	45 01.47	do	Do.
First Lutheran church.....	39 06.88	45 13.25	do	Do.
Fourth Presbyterian church spire.....	39 20.23	44 57.86	do	Do.
German Roman Catholic church, Our Lady of the Angel.....	39 43.30	46 10.07	do	Do.
Sacred Heart Roman Catholic church, North Albany.....	40 20.03	44 23.22	do	Do.
St. Patrick's Roman Catholic church spire.....	39 50.25	46 17.96	do	Do.
St. Paul's German Evangelical Lutheran church spire.....	39 32.36	46 08.89	do	Do.
St. Peter's Protestant Episcopal church spire.....	39 02.88	45 15.91	do	Do.
Second Presbyterian church spire.....	39 04.44	45 12.24	do	Do.
State Hall, flag pole.....	39 07.00	45 17.00	do	Rept. '83.
State Street Presbyterian church spire.....	39 13.70	45 41.16	do	Rept. '87.
Tabernacle Baptist church spire.....	39 19.05	45 06.73	do	Do.
Trinity Methodist Episcopal church.....	39 18.05	45 56.79	do	Do.
Waterworks chimney.....	40 22.00	46 42.00	do	Rept. '83.
Waterworks gatehouse pole.....	40 23.00	46 49.00	do	Do.
Alvord.....	19 10.52	46 29.39	do	Rept. '87.
Arsenal.....	43 11.01	42 06.58	do	Do.
Athens:				
Knickerbocker Ice Company's chimney.....	15 55.10	48 18.18	do	Do.
Protestant Episcopal church.....	15 53.99	48 27.82	do	Do.
Reformed church.....	15 48.08	48 42.28	do	Do.
Schoolhouse cupola, District No. 1.....	16 15.51	48 16.78	do	Do.
Barren Island.....	27 51.78	47 09.03	do	Do.
Flag pole.....	28 05.45	47 11.84	do	Do.
Bailey.....	24 04.19	46 44.47	do	Do.
Baker.....	31 48.13	46 00.86	do	Do.

NEW YORK—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	42°-43°	''	73°-74°	''		
Ball grounds.....	42	38 38.06	73	44 45.52	S. S.	Rept. '87.
Bath.....		39 35.30		43 53.63	do	Do.
Becker.....		59 58.51		31 40.00	C. & G. S.	Bull. 122
Bell.....		27 44.40		46 04.52	S. S.	Rept. '87.
Belvidere Hotel, flag pole.....		35 54.80		44 13.34	do	Do.
Best.....		22 21.63		47 06.24	do	Do.
Bethlehem.....		34 45.94		47 52.86	do	Do.
Dutch Reformed church, north of Becker Corner.....		33 43.29		48 19.78	do	Do.
Black Rock.....		15 23.22		48 51.39	do	Do.
Blodgot.....		30 56.93		53 44.91	do	Do.
Blue Hill.....		11 05.64		48 55.61	C. & G. S.	
Bluff.....		26 53.12		46 18.60	S. S.	Do.
Bogardus.....		22 08.70		47 56.94	do	Do.
House, east gable.....		22 11.47		47 58.41	do	Do.
Boulder.....		17 16.86		46 31.75	do	Do.
Brook.....		25 37.90		47 25.92	do	Do.
Barn cupola.....		25 32.73		47 17.79	do	Rept. '87.
Island.....		24 16.49		47 12.08	do	Do.
Burhans.....		00 20.27		57 13.95	C. & G. S.	Do.
Burnt Hills.....		54 35.82		54 16.45	S. S.	Do.
Christian church.....		54 35.64		53 31.54	do	Do.
Baptist church.....		54 25.59		53 47.60	do	Do.
Campbell.....		42 10.86		44 21.89	do	Do.
Island.....		33 17.93		45 05.28	do	Do.
Cass.....		34 12.65		59 15.72	do	Do.
Castleton.....		32 11.22		45 14.92	do	Do.
Dutch Reformed church.....		31 58.00		45 21.41	do	Do.
Cedar Hill.....		32 57.83		45 33.29	do	Do.
Center street.....		44 34.55		41 26.66	do	Do.
Church's (F. E.) house tower.....		13 01.37		49 46.74	do	Do.
Clapper.....		30 59.83		45 43.01	do	Do.
Clarksville.....		34 32.83		57 38.30	do	Do.
Dutch Reformed church spire.....		34 32.00		57 40.00	do	Rept. '83.
Clow, barn flag pole.....		13 14.98		47 40.20	do	Rept. '87.
Coeymans:						
Academy.....		28 23.40		47 55.24	do	Do.
Cemetery, Briggs monument.....		28 01.78		47 42.39	do	Do.
Dike light-house.....		28 30.93		47 04.17	do	Do.
Dock flag pole.....		28 23.00		47 24.00	do	Rept. '83.
Cohoes, Roman Catholic church.....		46 27.15		41 57.95	do	Rept. '87.
Colvin.....		24 39.88		47 28.40	do	Do.
Cooper Creek.....		35 10.87		45 13.76	do	Do.
Corning.....		36 54.35		46 15.03	do	Do.
Countryman.....		37 02.04		59 20.68	do	Do.
County line monument.....		46 33.00		47 59.00	do	Rept. '83.
Cow Island, light-house.....		32 16.18		45 20.78	do	Rept. '87.
Coxsackie.....		21 10.27		47 44.97	do	Do.
K. I. Co.'s flag pole.....		20 48.55		47 30.42	do	Do.
Light-house.....		22 47.18		47 42.78	do	Do.
Methodist Episcopal church tower.....		20 58.52		47 53.64	do	Do.
Noble's brickyard chimney.....		21 42.02		48 12.84	do	Do.
Protestant Episcopal church.....		21 11.10		48 13.18	do	Do.
Roman Catholic church, cross.....		20 57.97		47 45.52	do	Do.
Railroad station chimney.....		21 15.50		47 00.79	do	Do.
Reformed church.....		20 54.78		47 51.29	do	Do.
Upper Village Reformed church.....		21 43.17		49 18.51	do	Do.
Island.....		22 00.92		47 39.04	do	Do.
Denison.....		36 50.21		45 21.68	do	Do.
Dominie's Hook (bolt).....		35 42.63		45 50.65	do	Do.
Dubois.....		16 25.71		46 49.53	do	Do.
Dunnsville, Methodist Episcopal church spire.....		44 34.00		58 55.00	do	Rept. '83.
Dutch Reformed church, 1 mile north of Becker Corner.....		38 42.00		48 20.00	do	Do.
East Albany, St. John's Roman Catho- lic church.....		38 26.12		44 20.90	do	Rept. '87.
East Greenbush:						
Dutch Reformed church.....		35 18.42		42 00.69	do	Do.
Methodist Episcopal church.....		35 16.17		41 57.35	do	Do.
Ferris.....		40 35.51		45 13.30	do	Do.
Feura Bush, Dutch Reformed church spire.....		34 35.00		52 53.00	do	Rept. '83.
Five Hook Island, light-house.....		27 48.75		46 55.24	do	Rept. '87.
Forbes.....		40 07.68		43 12.61	do	Do.
Fordham Point.....		20 40.13		46 52.15	do	Do.
Four Mile Point.....		18 21.96		47 01.83	do	Do.
Light-house.....		18 21.91		47 01.40	do	Do.
Freight yard.....		16 36.77		47 51.94	do	Do.
Freleigh.....		46 35.27		47 12.17	do	Do.
Grandview.....		35 55.66		43 56.62	do	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° ' "	73°-74° ° ' "		
Greenbush:				
Presbyterian church	42 38 10.70	73 44 56.76	S. S.	Rept. '87.
Ferry	38 30.21	45 03.56	do	Do.
Greenport, Reformed church	11 56.18	48 12.89	do	Do.
Guilderland	42 02.29	58 01.51	do	Do.
Church spire	42 14.00	58 10.00	do	Rept. '83.
Lutheran church spire	42 15.24	58 09.74	do	Rept. '87.
Hallenbeck	35 56.18	40 08.38	C. & G. S.	Do.
South	16 19.20	49 58.70	S. S.	Do.
Hamiltonville:				
Methodist Episcopal church spire	42 16.00	54 43.00	do	Rept. '83.
Three point (nostation mark)	42 29.17	55 12.76	do	Rept. '87.
Hotailing Island	26 55.95	46 55.92	do	Do.
Home Lawn flag pole	43 41.00	45 36.00	do	Rept. '83.
Hudson (bolt)	15 22.54	47 51.34	do	Rept. '87.
Baptist church	15 05.93	47 27.95	do	Do.
Light-house	15 07.29	48 33.01	do	Do.
Lutheran church	14 55.30	47 03.34	do	Do.
Presbyterian church	15 04.27	47 21.98	do	Do.
Protestant Episcopal church	15 00.24	47 22.53	do	Do.
Roman Catholic church	15 05.09	47 38.86	do	Do.
Universalist church	15 00.31	47 14.32	do	Do.
Waterworks chimney	15 19.54	47 54.66	do	Do.
Iron works	42 23.39	41 47.03	do	Do.
Judson	19 47.63	46 03.76	do	Do.
Judson, barn cupola	19 44.00	46 01.00	do	Rept. '83.
Junction	19 48.24	46 26.15	do	Rept. '87.
Kinderhook, Reformed church	23 36.71	42 04.58	do	Do.
Knickerbocker, house cupola	27 40.55	46 11.99	do	Do.
Lampman	20 28.32	47 43.68	do	Do.
Lansing	44 12.82	42 58.58	do	Do.
Lansing Pine	45 38.73	50 37.75	do	Do.
Lisha's Kill, Dutch Reformed church	45 21.91	52 35.76	do	Do.
Lower Schodack Island	27 42.16	46 33.69	do	Do.
Merino, Columbia County	14 05.06	49 03.54	do	Bull. 122.
Merwin	21 23.61	41 23.01	do	Do.
Milham (Levi), house cupola	23 49.92	43 26.08	do	Rept. '87.
Moles	37 43.18	45 02.77	do	Do.
Monument 20	45 26.61	57 49.07	do	Do.
Monument 97	46 28.07	49 24.17	do	Do.
Monument 192	40 47.28	43 23.57	do	Do.
Morrison	15 14.35	49 39.93	do	Do.
Mount Merino	14 05.06	49 03.53	do	Do.
Mount Olympus	44 40.24	41 01.67	do	Do.
Mull	29 55.00	47 04.07	do	Do.
Mull Island	28 26.46	47 04.62	do	Do.
Mull Plaet	29 18.09	47 00.39	do	Do.
Muller	34 16.31	44 59.99	do	Do.
New Baltimore:				
Baptist church	26 46.49	47 24.54	do	Do.
Dike light-house	27 08.99	46 34.80	do	Do.
Dutch Reformed church	26 44.71	47 20.78	do	Do.
Light-house	27 04.42	47 02.69	do	Do.
Methodist Episcopal church	26 53.94	47 17.69	do	Do.
Riverside House, summer-house flag pole	26 44.09	47 13.22	do	Do.
Shipyard, chimney of	26 39.43	47 12.88	do	Do.
New Salem, Dutch Reformed church	37 25.10	57 58.31	do	Do.
New Scotland, Presbyterian church tower	37 53.91	54 24.41	do	Do.
Nine-mile Tree, light-house	31 05.22	45 53.64	do	Do.
Niskayuna	46 00.32	49 57.62	do	Do.
Nutter Hook	21 25.86	47 20.25	do	Do.
Olcott's house, cupola	37 53.02	43 13.11	do	Do.
Orchard	27 37.68	47 34.84	do	Do.
Paarda Hook	33 18.15	45 25.57	do	Do.
Papscaene Island	35 54.87	45 29.46	do	Do.
Parke	35 59.85	46 04.96	do	Do.
Parsons	27 09.59	47 31.39	do	Do.
Patten	15 27.72	47 10.01	do	Do.
Patterson	36 13.07	45 49.75	do	Do.
South chimney of house	36 09.08	46 26.86	do	Do.
Powell	23 20.60	51 50.69	C. & G. S.	Bull. 122.
Railroad farm	17 37.63	47 50.96	S. S.	Rept. '87.
Railway	41 11.94	42 38.32	do	Do.
Race course	41 17.34	42 54.99	do	Do.
Rafinesque	47 21.15	36 58.82	C. & G. S.	Rept. '85.
Rexford Flats	51 23.23	53 50.53	S. S.	Do.
Riley	41 42.83	42 08.15	do	Do.
Roha Hook	29 06.10	47 23.72	do	Do.
Light-house	28 50.37	47 19.54	do	Rept. '87.
Rotterdam, Methodist Episcopal church	46 47.49	57 29.91	do	Do.

NEW YORK—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	42°-43° " "		73°-74° " "			
Round Top.....	42	05 14.39	73	52 23.68	C. & G. S.	Rept. '87.
Rural Cemetery, Williams monument.	41	54.00	44	15.20	S. S.	
Rysedorph.....	37	36.71	43	10.93	do	
Sage.....	40	02.18	44	04.83	do	
Schermerhorn Island.....	31	20.19	45	59.55	do	Do.
Schenectady:						
Armory, flag pole.....	48	36.81	56	18.97	do	Do.
Baptist church spire.....	48	56.80	56	23.58	do	Do.
First Dutch Reformed church spire.....	49	00.98	56	51.27	do	Do.
First Presbyterian church spire.....	49	02.78	56	42.69	do	Do.
German Methodist Episcopal church spire.....	48	56.74	56	12.16	do	Do.
St. George's Protestant Episcopal church spire.....	49	05.68	56	42.84	do	Do.
St. John's Roman Catholic church spire.....	48	51.34	56	30.20	do	Do.
St. John's German Roman Catholic church spire.....	48	40.28	56	25.57	do	Do.
Second Reformed church spire.....	48	53.23	56	23.44	do	Do.
State Street Methodist Episcopal church spire.....	48	42.34	56	21.95	do	Do.
Union College dome.....	49	02.35	55	49.33	do	Do.
Union School.....	49	01.08	56	32.88	do	Do.
Schodack, channel light-house.....	29	51.94	46	41.66	do	Do.
Schodack Island.....	30	27.07	46	21.22	do	Do.
Schodack Landing:						
Dutch Reformed church.....	28	49.38	46	13.01	do	Do.
Knickerbocker ice house, flag pole.....	28	24.79	46	25.96	do	Do.
Schoolhouse cupola, near Mull.....	30	24.00	47	17.00	do	Rept. '83.
Schuyler.....	42	20.88	42	30.58	do	Rept. '87.
Scotia:						
Baptist church spire.....	49	34.41	57	48.64	do	Do.
Dutch Reformed church tower.....	49	40.15	57	37.06	do	Do.
Seward.....	40	30.60	39	46.50	do	Do.
Shad Island.....	30	53.72	46	22.65	do	Do.
Shart.....	17	34.43	46	05.05	do	Do.
Sickels.....	22	57.58	46	58.63	do	Do.
Slingerland.....	37	35.41	51	58.26	do	Do.
Methodist Episcopal church spire.....	37	50.52	51	38.49	do	Do.
Stevens.....	19	20.65	47	13.84	do	Do.
Stockport.....	18	01.69	46	11.77	do	Do.
Railway station, chimney.....	18	37.36	46	20.63	do	Do.
Stone House.....	25	25.27	47	11.51	do	Do.
Stuyvesant.....	23	21.83	46	00.01	do	Do.
Light-house.....	24	41.02	46	43.04	do	Do.
Lutheran church.....	23	24.43	46	23.82	do	Do.
Reformed church tower.....	23	16.70	46	55.86	do	Do.
Teller.....	36	26.33	44	05.71	do	Do.
Ten Eyck.....	28	48.11	45	49.84	do	Do.
Terry.....	23	01.75	47	58.36	do	Do.
Thistle.....	24	55.23	46	29.83	do	Do.
Tracy.....	25	25.26	44	31.71	do	Do.
Traver.....	30	14.70	45	39.55	C. & G. S.	
Troy:						
French Roman Catholic church.....	43	21.57	41	37.25	S. S.	Do.
St. Mary's Roman Catholic church.....	43	28.86	41	30.99	do	Do.
Ninth Presbyterian church.....	44	31.07	41	04.93	do	Do.
Park Presbyterian church.....	43	25.19	41	37.86	do	Do.
St. John's convent.....	42	56.64	41	29.80	do	Do.
St. John's Protestant Episcopal church.....	43	32.21	41	39.63	do	Do.
St. Joseph's Provincial Seminary, northwest spire.....	43	45.89	40	59.03	do	Do.
St. Michael's Roman Catholic church.....	42	04.67	41	48.72	do	Do.
St. Paul's Protestant Episcopal church.....	43	45.61	41	27.17	do	Do.
St. Peter's church, Roman Catholic.....	44	16.84	41	07.76	do	Do.
State Street Methodist Episcopal church.....	43	58.55	41	16.82	do	Do.
Round chimney near east end of State dam.....	44	47.11	41	05.53	do	Do.
Troy cemetery, Wool's monument.....	45	40.34	40	12.75	do	Do.
University, northwest spire.....	42	43.00	41	00.00	do	Rept. '83.
Unionville, Dutch Reformed church spire.....	36	02.00	53	28.00	do	Do.
Upper Red Hook.....	01	24.50	50	40.45	C. & G. S.	

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° / "	73°-74° ° / "		
Van Alstyne	42 25 53.77	73 46 18.65	S. S.	Rept. '87.
Van Buren	23 17.97	43 38.34	do	Do.
Van Dalfson	23 01.48	47 31.77	do	Do.
Van Denburg	33 10.08	44 09.71	do	Do.
Vanderpoel	26 28.43	47 16.62	do	Do.
Vanderzer	32 33.12	46 24.18	do	Do.
Van Rensselaer (C. S.)	39 02.10	43 38.10	do	Do.
Van Slyke	23 47.92	47 54.72	do	Do.
Van Wie	34 54.98	45 22.71	do	Do.
Van Wie, stone light	35 05.70	45 29.59	do	Do.
Vineyard	20 13.56	47 21.03	do	Do.
Visehee Ferry, church spire	47 47.17	49 35.63	do	Do.
Vrooman	30 42.92	46 53.36	do	Do.
West Albany	40 38.00	46 30.00	do	Rept. '83.
West Ghent, Dutch Reformed church	17 33.81	43 03.60	do	Rept. '87.
West Troy:				
Baptist church	43 41.89	42 11.79	do	Do.
Dutch Reformed church	42 48.83	42 33.95	do	Do.
First Dutch Reformed church	43 33.58	42 05.80	do	Do.
St. Bridget Roman Catholic church	42 53.48	42 27.60	do	Do.
Westertoe Island	37 20.13	45 40.82	do	Do.
Whannel	27 02.56	46 00.26	do	Do.
Whitehead's barn, west gable	21 31.47	46 45.66	do	Do.
Winnie's Dock	33 53.94	45 16.96	do	Do.
Winnie's Point	33 17.00	45 26.00	do	Rept. '83.
Wiswall	14 49.09	48 53.57	do	Rept. '87.
Wood	21 54.72	46 53.82	do	Do.
Yellow Pine	29 28.72	40 27.90	C. & G. S.	
	42°-43° ° / "	74°-75° ° / "		
Adebahr	42 52 26.92	74 10 42.01	S. S.	Do.
Amsterdam:				
Academy	56 34.95	11 28.74	do	Do.
Roman Catholic church spire	56 06.68	11 17.15	do	Do.
Argusville	47 50.00	31 12.55	do	Do.
Auriesville, Dutch Reformed church	55 43.86	18 50.52	do	Do.
Babcock	37 46.70	15 59.91	do	Do.
Baracourie	43 30.71	29 26.18	do	Do.
Barrow's (W. C.) house	47 53.15	20 47.80	do	Do.
Bell's (W. H.) house	47 30.60	19 48.22	do	Do.
Black	58 44.08	10 04.23	do	Do.
Bouck	37 42.41	18 51.26	do	Do.
Bramans Corner, Baptist church spire	47 49.00	15 05.00	do	Do.
Brandmill	54 32.14	02 38.36	do	Do.
Bronk	56 53.52	05 35.02	do	Do.
Canajoharie:				
Dutch Reformed church	54 18.25	34 12.92	do	
German Lutheran church	54 14.99	34 10.55	do	Do.
Nellis House	54 22.22	34 20.74	do	Do.
Protestant Episcopal church	54 14.70	34 19.38	do	Do.
Chapman	47 19.44	13 18.47	do	Do.
Charleston Four Corners, church tower	48 50.00	24 46.00	do	Rept. '83.
Cobleskill:				
Hotel Augusta	40 41.44	29 06.05	do	Rept. '87.
Lutheran church	40 43.06	28 57.07	do	Do.
Carlisle, Presbyterian church	45 23.66	26 44.79	do	Do.
Catskill	11 23.85	02 14.59	C. & G. S.	Do.
Mountain House, southeast corner	11 41.00	02 06.60	S. S.	Do.
Conover	46 58.61	17 26.66	do	Do.
Currytown, Dutch Reformed church tower	51 35.17	23 09.65	do	Do.
Dockstader	45 25.37	40 07.69	do	Do.
Dougal	53 08.97	07 21.63	do	Do.
Duanesburg, church tower	46 10.00	09 25.00	do	Rept. '83.
Dunn Hill	59 26.38	22 16.02	do	Do.
Dunnsville:				
Flag pole	44 23.00	01 03.00	do	Do.
Dutch Reformed church west of	45 07.00	02 44.00	do	Do.
East Hill, primary	46 53.00	42 16.00	do	Do.
East Township, Baptist church spire	42 13.00	05 42.09	do	Do.
Esperance:				
Methodist Episcopal church	45 39.44	15 29.08	do	Rept. '87.
Presbyterian church	45 44.40	15 39.79	do	Do.
Failing	55 29.50	33 21.54	do	Do.
Finkel	47 00.72	29 02.00	do	Do.
Fonda	57 23.23	22 19.15	do	Do.
Court-house dome	57 13.05	22 34.29	do	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
Fort Plain:	42°-43°	74°-75°		
Clinton Liberal Institute	42 55 54.23	74 37 47.90	S. S.	Rept. '87.
Dutch church spire	55 53.73	37 41.39	do	Do.
Methodist Episcopal church spire ..	55 56.57	37 31.81	do	Do.
Freys Bush, Methodist Episcopal church spire ..	54 36.51	40 04.57	do	Do.
Fultonville, J. H. Starin's house cupola ..	56 34.95	21 54.72	do	Do.
Glen	53 22.60	19 25.97	do	Do.
Dutch Reformed church spire	53 41.88	20 31.47	do	Do.
German Evangelical church tower ..	57 29.00	31 07.00	do	Rept. '83.
Hagaman Mills, church	58 27.00	09 01.33	do	Rept. '87.
Helderberg (C. S.)	37 39.07	00 38.47	do	Do.
High Peak	10 05.00	05 42.00	do	Rept. '83.
Holmes	37 36.10	30 49.79	do	Rept. '87.
Hunter	10 39.50	13 49.81	G. S.	Bull. 122.
Kelsey	37 32.38	21 54.68	S. S.	Rept. '87.
Knowersville	42 12.02	02 00.58	do	Do.
Lutheran church	42 11.87	02 01.64	do	Do.
Knox	59 08.45	05 47.39	do	Do.
Knoxville:				
Methodist Episcopal church spire ..	40 23.00	06 18.00	do	Rept. '83.
Lutheran church spire, 2 miles east of town ..	40 38.00	04 45.00	do	Do.
Little Falls, Universalist church	02 34.00	51 27.00	do	Do.
Mann	41 04.98	19 05.23	do	Rept. '87.
Mannys Corners, church	56 50.56	08 42.36	do	Do.
Mapletown	49 48.60	33 14.08	do	Do.
Dutch Reformed church tower ..	50 20.75	33 33.26	do	Do.
Middleburg, Dutch Reformed church spire ..	36 18.51	20 16.23	do	Do.
Methodist Episcopal church spire ..	35 48.97	19 58.73	do	Do.
Monument 46 (C. B.)	44 24.81	05 54.74	do	Do.
Monument 52 (C. B.)	43 00.11	14 29.35	do	Do.
Monument 53 (C. B.)	49 48.96	13 14.96	do	Do.
Monument 74 (C. B.)	45 04.97	00 23.71	do	Do.
Nellis	58 46.00	37 15.55	do	Do.
Oak Ridge	47 28.11	19 19.98	do	Do.
Wasson C. Barlow's house	47 52.00	20 49.09	do	Rept. '83.
Old Palatine, church spire	58 08.63	37 42.88	do	Rept. '87.
Ostego (C. S.)	46 54.73	42 14.60	do	Do.
Ostrander	57 25.44	48 26.10	do	Do.
Overlook Mountain	05 05.00	05 33.00	do	Rept. '83.
Paine Hollow, Methodist Episcopal church ..	57 39.35	54 14.06	do	Rept. '87.
Palatine, German Evangelical church tower ..	57 29.95	31 05.90	do	Do.
Pisgah	22 39.18	14 43.27	G. S.	Bull. 122.
Princetown	50 46.53	05 47.28	S. S.	
Presbyterian church spire	48 25.00	04 47.00	do	Rept. '83.
Reaman	53 47.42	35 45.40	do	Rept. '87.
Richfield Springs, observatory	50 33.15	56 58.57	do	Do.
Richmondville, hotel flag pole	38 02.00	33 53.00	do	Rept. '83.
Rickard	58 21.29	31 28.21	do	Rept. '87.
Riders Corners, church tower	58 43.44	38 44.57	do	Do.
Romeyn	54 42.12	05 11.75	do	Do.
Rundell	27 15.27	03 04.84	G. S.	Bull. 122.
Saltman's (Ezra I.) house, cupola ..	57 14.73	33 15.26	S. S.	Rept. '87.
St. Johnsville:				
Methodist Episcopal church spire ..	59 57.39	40 44.48	do	Do.
Union church tower	59 57.01	40 50.16	do	Do.
Schoharie:				
Cemetery, Williams monument ..	39 47.22	18 34.85	do	Do.
Lutheran church spire	39 53.01	18 40.21	do	Do.
Old Fort flag pole	40 38.64	18 08.02	do	Do.
Schuyler	58 54.72	26 35.71	do	Do.
Scotch Union, Presbyterian church spire ..	52 18.87	08 09.16	do	Do.
Sears	43 44.08	14 43.81	do	Do.
Sharon Springs Hotel, window in gable ..	47 52.00	36 49.00	do	Rept. '83.
Shoemaker	59 39.86	54 25.79	do	Do.
Sittle Hill	44 06.07	02 09.33	do	Rept. '87.
Sloansville, Baptist church tower ..	45 26.19	19 51.30	do	Do.
Stirling	48 42.42	33 26.66	do	Do.
Stone Arabia:				
Dutch Reformed church cupola ..	59 34.07	33 23.93	do	Do.
Lutheran church tower	56 25.80	33 22.38	do	Do.
Summit	35 42.94	34 53.73	do	Do.
Thompson	39 23.19	32 10.97	do	Do.
Tilpauagh	46 19.82	27 31.39	do	Do.
Tribes Hill, Presbyterian church tower ..	57 17.89	17 01.94	do	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° " "	74°-75° " "		
Turk	42 39 57.92	74 28 08.27	S. S.	Rept. '87.
Utsayantho	23 56.21	35 24.12	do	Do.
Van Apse (Abram) barn, cupola	56 24.59	23 34.70	do	Do.
Van Atten	54 18.07	00 15.60	do	Do.
Van Deusen	56 58.10	28 00.29	do	Do.
Vly	14 45.50	20 29.60	G. S.	Bull. 122.
Watersheet	51 49.16	04 13.98	S. S.	Rept. '87.
West Amsterdam, Lutheran church tower.	58 44.26	16 55.77	do	Do.
Willet	58 32.84	41 29.42	do	Do.
Windham, High Peak	18 53.78	08 36.22	G. S.	Bull. 122.
Winne	43 49.55	02 32.48	S. S.	Rept. '87.
Yule	56 40.67	53 58.48	do	Do.
	42°-43° " "	75°-76° " "		
Babell	42 16 26.13	75 40 51.85	do	Do.
Fenner	57 23.96	44 35.93	do	Do.
Getman	59 19.60	01 43.73	do	Do.
Maine	13 15.35	58 44.80	do	Do.
Solon	37 42.04	59 10.38	do	Do.
Tassel	56 29.13	19 00.47	do	Do.
Windsor	06 10.26	44 47.29	do	Do.
	42°-43° " "	76°-77° " "		
Alpine, Methodist Episcopal church	42 18 42.22	76 43 29.08	do	Do.
Ashland	01 54.62	47 01.88	do	Do.
Auburn, court-house dome	55 47.86	34 09.19	do	Do.
Barton	06 48.66	27 29.52	do	Do.
Brown	23 48.31	51 03.44	do	Do.
Burdett:				
Methodist Episcopal church	25 13.81	50 46.94	do	Do.
Presbyterian church	25 00.81	50 50.11	do	Do.
Cafferty	06 30.34	08 03.58	do	Do.
Catharine, Methodist Episcopal church.	18 46.23	46 58.58	do	Do.
Chemung	02 31.64	33 21.02	do	Do.
Clapp	58 11.87	02 19.08	do	Do.
Cortland:				
Baptist church	36 01.32	10 40.69	do	Do.
Normal School, east cupola	35 56.99	10 36.02	do	Do.
Wagon Company's chimney	35 58.38	10 15.94	do	Do.
Couch	17 56.13	48 32.43	do	Do.
Dryden	23 06.00	20 02.00	do	Rept. '83.
Do	28 07.19	20 01.20	do	Rept. '87.
Eddytown, Presbyterian church	31 17.13	55 47.12	do	Do.
Ellis	38 47.65	12 52.41	do	Do.
Elmira:				
First Methodist Episcopal church	05 31.48	48 16.04	do	Do.
First Presbyterian church	05 28.28	48 16.59	do	Do.
Park Congregational church	05 21.45	48 32.97	do	Do.
Female College tower	05 54.21	48 50.68	do	Do.
Public School, No. 5	05 50.54	49 16.47	do	Do.
Richardson shoe factory clock tower.	05 19.32	48 21.18	do	Do.
St. Mary's Roman Catholic church.	04 36.50	48 22.30	do	Do.
St. Patrick's Roman Catholic church.	05 37.81	48 39.30	do	Do.
Trinity Protestant Episcopal church.	05 24.06	48 30.13	do	Do.
Enfield	27 15.48	35 59.22	do	Do.
Erin	10 16.22	37 48.81	do	Do.
Fabius	48 41.63	01 14.88	do	Do.
Giles	53 02.27	26 13.44	do	Do.
Green	59 18.78	01 49.23	do	Do.
Havana:				
Baptist church	20 41.81	50 50.33	do	Do.
Cook Academy	20 30.85	50 22.16	do	Do.
Court-house	20 44.41	50 59.66	do	Do.
Methodist Episcopal church	20 44.58	50 44.23	do	Do.
Presbyterian church	20 43.33	50 37.14	do	Do.
Protestant Episcopal church	20 40.15	50 59.02	do	Do.
Union school-house	20 40.52	50 38.76	do	Do.
Hawley	06 22.99	52 15.73	do	Do.
Hector	26 47.09	48 21.04	do	Do.
Homer:				
Academy cupola	38 08.81	10 48.00	do	Do.
Baptist church	38 04.20	10 48.76	do	Do.
Methodist Episcopal church	38 05.57	10 48.50	do	Do.
Presbyterian church	38 07.38	10 48.18	do	Do.
Hornby	15 42.78	59 38.72	do	Do.
Horseheads	09 59.05	49 32.14	do	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	76°-77°		
Horseheads—Continued.	42	76	S. S.	Rept. '87
Baptist church.....	09 55.79	49 20.03	do	Do.
Methodist Episcopal church.....	09 58.97	49 20.31	do	Do.
Presbyterian church.....	09 57.77	49 19.98	do	Do.
Protestant Episcopal church.....	09 53.23	49 10.50	do	Do.
Howlett.....	59 52.95	17 26.55	do	Do.
Hoxsie.....	55 46.15	22 28.30	do	Do.
Hubert.....	36 42.74	08 40.05	do	Do.
Hungerford.....	25 45.22	27 03.45	do	Do.
Ithaca:				
Cornell University, barn cupola.....	26 58.12	28 45.87	do	Do.
McGraw Building.....	26 57.97	29 08.80	do	Do.
Sage Chapel.....	26 49.70	29 05.08	do	Do.
Sage College.....	26 45.24	29 02.06	do	Do.
Light-house dome.....	27 44.92	30 52.70	do	Do.
McGraw Fiske, house.....	27 03.28	29 18.29	do	Do.
Presbyterian church.....	26 32.12	29 56.93	do	Do.
Protestant Episcopal church.....	26 28.27	29 58.42	do	Do.
Roman Catholic church.....	26 24.64	30 03.15	do	Do.
Sprague fire-engine house, flag pole.....	26 22.04	30 36.68	do	Do.
State Street Methodist Episcopal church.....	26 22.57	30 07.79	do	Do.
Jacksonville, Methodist Episcopal church.....	30 44.74	38 06.62	do	Do.
Kile.....	04 34.65	15 41.46	do	Do.
Maby.....	07 32.60	47 38.02	do	Do.
Mathews.....	07 30.65	50 34.80	do	Do.
Mitchel.....	56 35.05	31 46.27	do	Do.
Morehead.....	32 22.71	13 27.39	do	Do.
Moreland, Presbyterian church.....	18 28.25	54 34.67	do	Do.
Newfield.....	23 11.24	40 10.62	do	Do.
Niles.....	47 56.73	26 03.55	do	Do.
North Barton church.....	07 07.00	29 39.00	do	Rept. '83.
Oak Hill, Baptist church.....	05 21.90	27 07.62	do	Rept. '87.
Odessa:				
Free Will Baptist church.....	20 06.85	47 25.02	do	Do.
Wesleyan Methodist church.....	20 03.81	47 24.89	do	Do.
Orange.....	19 11.29	58 27.15	do	Do.
Ovid.....	40 43.43	49 18.22	do	Do.
Owego, court-house.....	42 06.08	15 47.00	do	Rept. '83.
Pompey Hill:				
Presbyterian church.....	53 58.97	00 57.34	do	Rept. '87.
Roman Catholic church.....	54 03.52	00 48.18	do	Do.
Reading Center:				
Baptist church.....	25 49.60	56 00.75	do	Do.
Methodist Episcopal church.....	25 51.36	56 00.99	do	Do.
Richford.....	23 47.15	13 20.84	do	Do.
Ripley.....	47 24.85	14 26.42	do	Do.
Rock Stream, church.....	28 19.94	55 45.06	do	Do.
Ross Hill, church.....	05 08.00	25 30.00	do	Rept. '83.
Seeley.....	58 33.42	22 11.68	do	Rept. '87.
Shafford, church.....	48 15.00	15 56.00	do	Rept. '83.
South Hill.....	25 49.04	29 45.28	do	Rept. '87.
Strader.....	21 41.50	52 03.36	do	Do.
Sugar Hill, Presbyterian church.....	21 45.13	59 26.03	do	Do.
Trumansburg:				
Baptist church.....	32 34.84	39 43.53	do	Do.
Methodist Episcopal church.....	32 26.06	39 30.10	do	Do.
Presbyterian church.....	32 28.63	39 33.00	do	Do.
Protestant Episcopal church.....	32 27.01	39 40.02	do	Do.
Turner.....	25 07.71	29 38.70	do	Do.
University.....	26 54.15	29 08.73	do	Do.
Van Dorns Corners, Methodist Episcopal church.....	26 53.92	34 29.77	do	Do.
Virgil.....	29 34.06	08 24.95	do	Do.
Watkins:				
Academy.....	22 37.80	52 09.33	do	Do.
Court-house.....	22 36.50	52 16.49	do	Do.
Lake View Hotel.....	22 42.38	52 39.24	do	Do.
Methodist Episcopal church.....	22 50.90	52 29.53	do	Do.
Palmer's (O.) house.....	23 59.99	51 03.21	do	Do.
Presbyterian church.....	22 48.03	52 15.43	do	Do.
Protestant Episcopal church.....	22 47.89	52 16.56	do	Do.
Roman Catholic church.....	22 39.56	52 12.21	do	Do.
Watkins Glen observatory.....	22 33.40	52 29.73	do	Do.
West Dryden, church.....	31 02.21	24 54.07	do	Do.
White.....	08 30.17	29 18.65	do	Do.
	42°-43°	77°-78°		
Bristol.....	42 42 00.62	77 24 31.05	do	Do.
Gorham.....	48 54.11	10 54.82	do	Do.
Milo.....	35 16.32	01 46.62	do	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	77°-78°		
Scottsville	42 59 59.29	77 42 37.59	L. S.	Final Rept.
Sproul	23 13.77	00 10.51	S. S.	Rept. '87.
Swale	12 16.23	29 28.02	do	Do.
Urbana	25 40.54	15 14.99	do	Do.
Worden	44 46.66	25 34.22	do	Do.
Batavia:	42°-43°	78°-79°		
Court-house dome	42 59 51.75	78 11 13.19	do	Do.
German Methodist Episcopal church spire.	59 45.29	10 56.40	do	Do.
Johnston Harvester Works, chimney.	59 36.26	10 25.84	do	Do.
Methodist Episcopal church spire.	59 50.66	10 53.59	do	Do.
Presbyterian church tower	59 47.93	10 45.62	do	Do.
Buffalo	53 03.18	52 41.83	L. S.	Final Rept.
Buffalo Plains	56 58.22	49 03.79	do	Do.
East base	59 19.57	48 32.98	do	Do.
Erie County:				
Buffalo light-house	52 40.10	53 24.00	do	Do.
Horseshoe light-house	52 52.50	54 56.20	do	Do.
Intersection of Michigan and Exchange streets, Buffalo.	52 41.10	52 14.30	do	Do.
Hamburg	46 50.61	51 31.92	do	Do.
Norris	59 23.95	06 56.96	S. S.	Rept. '87.
Richmond	35 16.65	52 37.69	G. S.	Bull. 122.
West Base	57 20.56	52 44.54	L. S.	Final Rept.
	42°-43°	79°-80°		
Barcelona	42 20 32.00	79 35 24.40	do	Do.
Brocton	24 07.00	28 41.80	do	Do.
Dunkirk:				
Chimney of Brook's Locomotive Works.	29 06.40	19 26.80	do	Do.
Light-house	29 37.80	21 15.80	do	Do.
New light-house	29 44.30	21 25.80	do	Do.
Dean	32 33.61	09 15.62	G. S.	Bull. 122.
Deering	25 49.50	14 19.03	do	Do.
Pierce	26 06.00	09 18.82	do	Do.
Prospect	19 29.50	29 59.60	L. S.	Final Rept.
Sheffin	36 38.41	00 30.72	G. S.	Bull. 122.
Silver Creek	31 13.94	13 27.81	L. S.	Final Rept.
Sturgeon Point	41 24.88	02 53.93	do	Do.
Westfield	16 25.30	37 30.71	do	Do.
High School	19 29.70	34 23.20	do	Do.
Methodist Episcopal church	19 26.50	34 33.20	do	Do.
	41°-42°	71°-72°		
Chocomount	41 16 48.06	71 57 48.05	C. & G. S.	Do.
Montauk	03 54.39	54 18.43	do	Do.
Montauk, 2	03 54.38	54 18.50	do	Rept. '85.
	41°-42°	72°-73°		
Brown Hill	41 09 11.29	72 17 36.46	do	Do.
Great Gull Island	12 06.43	07 06.21	do	Do.
Horton Point	04 58.21	26 53.61	do	Do.
Mattituck Hills	00 08.46	34 29.75	do	Do.
Mount Prospect	15 21.51	00 35.93	do	Do.
Mount Prospect, 2	15 21.54	00 35.87	do	Do.
Shelter Island	04 38.99	21 39.79	do	Do.
	41°-42°	73°-74°		
Bailey	41 18 43.79	73 33 06.07	do	Do.
Bald Hill	30 05.88	55 08.94	do	Do.
Bancroft	33 41.11	31 42.69	do	Do.
Barnes	48 14.31	51 00.74	do	Do.
Bingham	35 31.24	59 31.60	do	Do.
Boice	55 54.81	49 31.30	G. S.	Bull. 122.
Brace Mountain, monument	02 39.91	29 34.88	C. & G. S.	Do.
Briggs	34 35.88	31 49.10	do	Do.
Bussing	09 36.33	40 47.58	do	Do.
Buttermilk	06 36.44	48 38.90	do	Do.
Chapel Light	43 08.30	31 07.20	do	Do.
Clark monument	48 02.69	30 27.96	do	Do.
Clove	41 18.57	41 36.06	do	Do.
Corner Stone	02 58.38	29 15.96	do	Do.
Dickerson	15 32.13	52 02.33	do	Do.
East Bluff	56 21.21	28 18.02	do	Do.
Fields West	02 17.38	43 34.43	do	Do.
Golden Ridge	38 44.89	59 08.31	do	Do.
Haines	54 37.74	34 08.07	do	Do.
Hamlin	59 10.51	32 48.90	do	Do.
High Tor	11 15.51	57 50.65	do	Do.
Hook Mountain	07 27.34	54 43.15	do	Do.
Hussey Hill	53 08.54	59 40.69	G. S.	Do.

NEW YORK—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° " " "	73°-74° " " "		
Iron bolt, near 30 mile boundary stone.	41 43 08.36	73 30 51.65	C. & G. S.	Bull. 122.
Kingston City Hall.	55 37.46	59 47.90	G. S.	
Lewisboro, Presbyterian church (1865).	16 24.03	33 17.57	C. & G. S.	
Lloyd.	49 17.24	53 14.19	do	Do.
Merwin.	14 09.00	19 57.60	do	
Monument stone.	34 24.64	31 35.87	do	
Osborne.	35 16.90	32 23.32	do	Do.
Plymouth.	46 25.41	37 17.28	do	
Port Chester.	00 09.16	40 22.77	do	
Poughkeepsie.	41 18.00	53 24.00	do	
Preston.	42 36.70	31 04.37	do	
Prospect.	52 27.96	57 49.92	do	
Purdy.	03 10.12	41 36.08	do	
Ridgefield Angle, monument stone.	17 42.68	33 06.79	do	
Round Mountain.	25 06.37	32 25.65	do	
Monument.	25 11.91	32 20.53	do	
Sandford.	01 13.46	39 56.96	do	Do.
Spencers Corner, spire (1863).	57 45.62	30 03.69	do	
Stewart.	46 13.66	58 09.96	do	
Stratford Shoal (Middle Ground) light-house (1881-1885).	03 35.78	06 06.11	do	
Terry.	56 22.29	58 19.63	do	
Traver.	55 05.04	52 41.44	do	
Underhill.	35 47.39	51 56.70	do	
Vervain.	41 21.52	50 54.79	do	
Warner.	24 04.88	56 33.99	do	
Watermelon.	21 53.81	43 16.37	do	
Wilton monument.	12 46.07	28 56.40	do	
Wing monument stone.	33 30.38	31 40.71	do	Do.
	41°-42° " " "	74°-75° " " "		
Pink.	41 54 04.50	74 02 46.89	G. S.	
Prospect Hill.	33 21.83	01 48.68	C. & G. S.	
Schuyler.	58 54.73	26 35.72	S. S.	
Sky Top Tower.	45 49.76	09 23.64	G. S.	
Slide.	59 56.97	23 10.94	do	

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	41°-42° " " "	74°-75° " " "		
Allendale church spire.	41 01 49.56	74 07 34.74	C. & G. S.	Final Rept., Vol. 1.
Bald Mountain.	07 14.54	12 02.91	do	Do.
Beach Mountain.	10 00.16	17 40.09	do	Do.
Bear Port.	08 26.15	23 31.50	do	Do.
Beaver Run.	09 21.00	38 46.77	do	Do.
Catfish Pond, summit, east of pond.	01 57.42	59 50.19	do	Do.
Centerville.	12 54.07	50 29.59	do	Do.
Culver Gap.	10 20.99	47 42.03	do	Do.
Darlington.	04 42.70	12 32.80	do	Do.
Decker Pond.	12 14.34	32 02.25	do	Do.
Deckertown, Presbyterian church spire.	12 39.10	36 23.47	do	Do.
Dunker Pond.	04 58.50	28 57.03	do	Do.
East and west Jersey line (on Blue Mountain).	08 46.65	50 59.63	do	Do.
Franklin furnace stack.	06 32.22	35 21.34	do	Do.
Glenwood.	15 27.31	30 17.51	do	Do.
Hamburg.	08 53.35	31 49.78	do	Do.
High Point.	19 15.24	39 42.98	do	Do.
High Torne.	09 05.39	09 47.33	do	Do.
Lafayette.	07 53.51	41 26.76	do	Do.
Macopin.	02 56.21	24 03.59	do	Do.
Newton, Presbyterian church spire.	03 27.30	45 18.60	do	Do.
Ramsey, church tower.	03 33.61	08 32.10	do	Do.
Smith Hill.	04 57.55	44 49.77	do	Do.
Sparta.	00 58.46	38 15.64	do	Do.
Waykoff, church cupola.	00 27.73	10 25.98	do	Do.
Woodport.	00 40.05	35 29.96	do	Do.
	40°-41° " " "	73°-74° " " "		
Cherry Hill.	40 54 45.91	73 58 12.17	do	Do.
Coytesville.	51 37.59	58 45.27	do	Do.
Duer.	59 53.46	54 10.37	do	Do.
Englewood.	53 23.16	58 16.05	do	Do.
Fort Lee, flagstaff.	50 49.00	57 53.76	do	Do.
Navesink.	23 47.58	59 03.67	do	Do.

NEW JERSEY—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	° 40°-41°	" "	° 73°-74°	" "		
Navesink.....	40	23 18.14	73	59 13.40	C. & G. S.	Final Rept., Vol. I.
Lighthouse.....	23	45.23	59	08.52	do	Do.
Palisade.....	59	52.93	54	17.49	do	Do.
Schraalenburg, church spire.....	56	25.10	59	40.05	do	Do.
State line, stone on bank of Hudson River.	54	50.10	55	28.95	do	Do.
Allentown, Reformed church spire.....	40	10 27.10	74	35 14.60	do	Do.
Andover.....	59	09.80	44	49.40	do	Do.
Aquackanonck.....	51	03.73	07	45.60	do	Do.
Arney.....	00	28.66	42	12.62	do	Do.
Baird.....	14	09.85	24	51.16	do	Do.
Bald Hill.....	57	39.81	21	03.61	do	Do.
Banta.....	53	12.54	00	59.46	do	Do.
Bay Way, Staten Chemical Co.'s chimney.	37	56.00	12	15.30	do	Do.
Bayard.....	35	01.66	12	43.94	do	Do.
Beacon Hill.....	22	26.55	13	41.91	do	Do.
Bedminster, church cupola.....	40	14.70	38	43.00	do	Do.
Beers Hill.....	23	33.76	11	26.19	do	Do.
Bergen, Dutch Reformed church.....	43	37.14	04	04.35	do	Do.
Bergen Fields, church spire.....	55	45.64	00	13.18	do	Do.
Bergen Neck.....	45	52.00	02	36.50	do	Do.
Bergen Point, spire.....	38	52.17	07	39.14	do	Do.
Bird.....	39	05.83	10	28.39	do	Do.
Bishop's barn.....	03	47.40	41	38.00	do	Do.
Bloomfield.....	32	06.71	19	28.84	do	Do.
Boonton, Presbyterian church spire.....	54	23.52	24	37.38	do	Do.
Bordentown, flag pole.....	08	52.95	42	49.59	do	Do.
Bordentown, Presbyterian church spire.	08	36.50	42	37.10	do	Do.
Bordentown Observatory.....	09	20.57	42	43.74	do	Do.
Bordentown, church spire.....	08	48.70	42	50.10	do	Do.
Bound Brook.....	34	59.36	31	57.27	do	Do.
Boynton's Tile Works, near Wood-bridge Landing.	32	26.58	15	21.66	do	Do.
Burdge.....	23	02.23	01	45.70	do	Do.
Burlington, St. Mary's spire.....	04	37.80	51	43.60	do	Do.
Bury.....	50	28.80	05	22.41	do	Do.
Caldwell, church spire.....	50	20.98	16	33.92	do	Do.
Caldwell.....	50	24.29	15	24.67	do	Do.
Do.....	50	24.10	15	24.70	do	Do.
Carhart.....	25	03.93	02	31.56	do	Do.
Caven Point.....	41	33.96	04	18.97	do	Do.
Centerville, church spire.....	40	05.83	06	53.16	do	Do.
Chapel Hill, back light.....	23	53.80	03	32.63	do	Do.
Chapel Hill, light-house pole.....	23	54.48	03	32.57	do	Do.
Cherryville, spire.....	33	44.70	54	15.50	do	Do.
Cherryville.....	33	45.15	54	31.01	do	Do.
Chestnaquack.....	27	40.13	15	03.39	do	Do.
Chestnaquack Point.....	27	39.58	15	02.36	do	Do.
Christopher.....	04	13.42	11	56.75	do	Do.
Claybanks.....	07	14.42	47	53.03	do	Do.
Cold Soil.....	20	40.64	42	33.50	do	Do.
Columbus, west spire.....	04	25.00	43	31.40	do	Do.
Compton.....	26	22.54	05	29.84	do	Do.
Conasconck Point.....	27	33.40	10	44.64	do	Do.
Conover.....	20	41.08	01	27.32	do	Do.
Conover beacon.....	25	17.01	03	21.29	do	Do.
Constable Point.....	39	26.12	05	45.51	do	Do.
Cornhill.....	22	23.78	54	42.70	do	Do.
Cranbury.....	18	26.38	31	08.32	do	Do.
First Presbyterian church steeple.	18	50.40	30	51.60	do	Do.
Second Presbyterian church spire.....	50	08.02	13	08.76	do	Do.
Crane.....	39	28.10	18	11.60	do	Do.
Cranford, Presbyterian church spire.....	09	16.30	39	02.10	do	Do.
Crosswick, spire.....	29	04.12	54	45.55	do	Do.
Croton.....	37	24.80	48	26.90	do	Do.
Cushetunk.....	52	12.03	56	12.86	do	Do.
Danville.....	22	32.80	30	43.70	do	Do.
Dayton, church spire.....	10	58.17	25	26.79	do	Do.
Debow hill.....	02	46.15	57	46.20	do	Do.
Delanco.....	02	58.11	57	25.15	do	Do.
Delanco, church spire.....	14	48.23	27	26.00	do	Do.
Disboro Hill.....	35	39.90	27	50.20	do	Do.
Dunellen, spire.....	16	57.50	36	50.30	do	Do.
Dutch Neck, spire.....	53	49.06	44	54.13	do	Do.
East and west Jersey line.....	30	10.14	34	47.35	do	Do.
East Millstone, Reformed church cupola.	14	23.00	43	39.60	do	Do.
East Trenton, Rubber Works chimney					do	Do.

NEW JERSEY—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41° ° ' "	74°-75° ° ' "		
Elizabeth:				
First Presbyterian church spire..	40 39 45.60	74 12 56.80	C. & G. S.	Final rept., Vol. 1.
St. Mary's church spire	39 29.90	13 07.80	do	Do.
Elizabethport Oil Cloth Co.'s chim- ney.	38 45.96	11 45.84	do	Do.
Elizabethport, spire Presbyterian church.	38 52.45	11 27.94	do	Do.
Elizabethtown, spire First Presby- terian church.	39 45.54	12 56.67	do	Do.
Ewing, church spire	16 14.40	48 02.50	do	Do.
Fairfield, spire Reformed church	53 04.54	16 58.03	do	Do.
Fleming	00 15.97	03 31.97	do	Do.
Flemington, spire Methodist church..	30 20.23	51 30.22	do	Do.
Florence, foundry chimney	07 31.10	49 05.60	do	Do.
Fox Hill	43 59.01	48 19.05	do	Do.
Freehold, spire old court-house	15 37.18	16 28.40	do	Do.
Freehold, spire Reformed church	15 28.00	16 42.40	do	Do.
Garriell	20 34.44	03 05.72	do	Do.
Gibbet Island	41 58.32	02 25.39	do	Do.
Goat Hill	20 44.75	56 17.05	do	Do.
Grandon Hill.....	15 47.42	13 55.76	do	Do.
Green Island	00 35.22	06 26.49	do	Do.
Green Pond	58 33.64	32 01.63	do	Do.
Hacksack, church spire.....	53 18.55	02 32.65	do	Do.
Hackettstown.....	51 08.08	52 19.41	do	Do.
Hamilton Square, Baptist church	13 46.10	39 37.30	do	Do.
Hardwick, church cupola	59 44.10	51 39.00	do	Do.
Harrison House, cupola	02 22.67	59 47.93	do	Do.
Hawk	33 41.77	14 25.40	do	Do.
Do	02 35.95	58 39.21	do	Do.
Hazel's farm	18 05.57	40 28.29	do	Do.
High Mountain	58 14.12	11 55.38	do	Do.
Highwood	46 12.70	01 02.06	do	Do.
Highland of Squan.....	06 10.48	04 37.60	do	Do.
Hilton	25 19.99	03 29.34	do	Do.
Hope, church spire	54 31.90	58 11.70	do	Do.
Hunter House, north chimney	00 47.91	59 07.46	do	Do.
Jenny Jump Mountain	52 02.20	59 20.80	do	Do.
Jersey City:				
Spire	42 53.18	02 16.75	do	Do.
Flagstaff	42 55.03	02 17.10	do	Do.
Key East Hotel, flagstaff	11 29.60	00 37.80	do	Do.
Keyport, spire	26 15.21	12 07.14	do	Do.
Kill von Kull Oil Cloth Co.'s chim- ney.	39 18.82	06 33.44	do	Do.
Kills Light, Bergen Point	38 34.83	08 55.74	do	Do.
King	01 21.05	56 29.70	do	Do.
Kingsland	47 47.76	07 32.55	do	Do.
Lamington, church spire	39 38.20	43 12.20	do	Do.
Lawrenceville	18 07.81	44 08.31	do	Do.
Standpipe	17 31.90	44 10.90	do	Do.
Spire	17 53.80	43 44.85	do	Do.
Liberty pole, Long Branch village	17 58.35	00 12.20	do	Do.
Light-house flag	26 53.55	07 16.71	do	Do.
Linden, spire Episcopal church.....	37 39.70	15 07.00	do	Do.
Linden, spire Reformed church	38 02.60	15 32.20	do	Do.
Lippincott, hill	15 20.43	07 49.31	do	Do.
Mapleton	21 11.42	36 43.43	do	Do.
Matayan	26 51.67	12 38.80	do	Do.
Matayan Point.....	26 53.08	12 39.43	do	Do.
Mechanicsville, church spire	37 11.20	45 00.40	do	Do.
Menlo Park, tall iron stack	33 49.00	20 22.50	do	Do.
Metuchen, spire Presbyterian church.	32 25.70	21 34.50	do	Do.
Middlebush, church spire	29 49.87	31 42.81	do	Do.
Midland Park, church tower	59 26.80	08 31.60	do	Do.
Mine Mount	43 19.05	36 20.28	do	Do.
Morgan	28 03.76	15 59.33	do	Do.
Do	28 10.75	15 56.15	do	Do.
Do	28 07.88	15 53.80	do	Do.
Morristown, spire Presbyterian church.	47 50.43	28 49.89	do	Do.
Mount Canoe.....	19 40.56	51 39.58	do	Do.
Mount Holly	00 09.12	47 19.30	do	Do.
Mount Horeb	36 42.07	34 16.27	do	Do.
Mount Mitchell, north edge of High- lands.	24 30.57	00 26.20	do	Do.
Mount Olive	52 02.48	42 52.50	do	Do.
Mount Rose	22 03.36	43 25.74	do	Do.
Netherwood	37 33.70	24 00.40	do	Do.
New Brunswick:				
Rutgers College cupola	29 55.43	26 48.12	do	Do.
Spire St. James.....	29 38.00	26 53.80	do	Do.

NEW JERSEY—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41° ° ' "	74°-75° ° ' "		
New Dover, spire.....	40 35 07.20	74 20 26.40	C. & G. S.	Final rept., Vol. 1.
Newark:				
Spire Methodist church.....	44 06.18	10 12.50	do	Do.
Spire First Presbyterian church..	44 03.78	10 22.16	do	Do.
Spire Episcopal church.....	44 25.42	10 10.35	do	Do.
Bay light or Passaic light.....	41 46.29	07 39.13	do	Do.
Bay beacon.....	42 08.20	07 27.87	do	Do.
Neck.....	42 47.57	08 19.90	do	Do.
Newell.....	11 43.95	14 25.67	do	Do.
North Branch.....	35 55.35	40 53.28	do	Do.
Spire Reformed church.....	35 56.60	40 22.20	do	Do.
Ocean Beach, Colorado House	10 23.80	00 57.50	do	Do.
Ocean House, flagstaff.....	22 54.54	58 33.80	do	Do.
Palmerpaw.....	40 40.84	05 59.22	do	Do.
Paramus, church spire.....	59 07.12	05 33.28	do	Do.
Parsippany, church spire.....	51 52.70	24 24.20	do	Do.
Parsippany, spire Presbyterian church.....	51 52.77	24 23.87	do	Do.
Passionist Fathers' Monastery, West Hoboken.....	45 56.98	02 12.18	do	Do.
Pennington Seminary, cupola.....	19 38.16	47 37.90	do	Do.
Perth Amboy, spire Episcopal church.	30 13.34	15 56.15	do	Do.
Perth Amboy, Presbyterian church ..	30 20.79	15 57.80	do	Do.
Pickles.....	35 40.96	49 26.17	do	Do.
Pigeon Hill.....	24 27.90	04 43.23	do	Do.
Pleasant Corner, church spire.....	26 28.63	51 24.15	do	Do.
Pluckamin, church spire.....	38 52.60	38 32.50	do	Do.
Plum.....	01 56.99	59 26.61	do	Do.
Point Comfort.....	27 23.59	08 04.95	do	Do.
Polhemus.....	19 02.80	08 56.52	do	Do.
Poplar Ridge.....	22 17.10	42 30.35	do	Do.
Pottersville.....	42 24.80	44 06.10	do	Do.
Powder Mills, machine-shop chimney.	55 30.11	16 33.39	do	Do.
Princeton College, cupola.....	20 54.86	39 34.86	do	Do.
Do.....	20 55.00	39 35.10	do	Do.
Princeton Seminary, cupola.....	20 42.80	39 53.86	do	Do.
Princeton water tower.....	20 23.50	40 03.50	do	Do.
Quakertown, spire.....	33 52.90	56 31.50	do	Do.
Rahway, spire First Presbyterian church.....	36 31.80	16 34.10	do	Do.
Do.....	36 53.74	16 51.81	do	Do.
Do.....	36 53.80	16 51.80	do	Do.
Rancocas.....	02 36.10	58 40.44	do	Do.
Randolph.....	36 44.51	23 40.02	do	Do.
Raritan woolen mill chimney.....	33 54.72	37 57.02	do	Do.
Readington, spire Reformed church..	34 05.16	44 09.19	do	Do.
Readington, church spire.....	34 05.20	44 09.20	do	Do.
Red Bog.....	14 06.08	03 14.06	do	Do.
Do.....	14 05.81	03 13.71	do	Do.
Robbins Reef light.....	39 26.45	03 56.68	do	Do.
Roselle, flagstaff.....	39 37.00	15 50.40	do	Do.
Rosemont, spire.....	25 39.40	59 26.40	do	Do.
Rowan.....	38 54.14	07 33.62	do	Do.
Sand Ridge, spire Baptist church.....	25 23.15	57 14.59	do	Do.
Sandhills.....	24 30.00	32 39.08	do	Do.
Sandy Hook.....	27 44.98	00 24.70	do	Do.
Signal.....	28 19.85	00 23.11	do	Do.
Light-house.....	27 42.29	00 08.46	do	Do.
Sawyer, Tufts Point.....	33 38.86	13 26.27	do	Do.
Sayre, hill.....	40 46.26	17 17.28	do	Do.
Schooley Mountain.....	49 47.53	47 33.15	do	Do.
Schnuyler.....	46 48.88	08 30.07	do	Do.
Sea Girt, Beach House, north flagstaff.	07 34.80	01 49.90	do	Do.
Seward.....	28 55.60	16 33.05	do	Do.
Hill.....	47 12.80	40 35.20	do	Do.
Sewaren.....	32 47.50	15 18.54	do	Do.
Sheep Hill.....	55 09.18	24 24.05	do	Do.
Shooter's Island.....	38 36.84	09 39.94	do	Do.
Chimney.....	38 32.58	09 39.70	do	Do.
Shotwell.....	32 48.13	15 21.06	do	Do.
Shrewsbury, spire.....	19 25.00	03 41.53	do	Do.
Springfield.....	41 22.14	21 25.14	do	Do.
Somerville, spire First Reformed church.....	34 06.48	36 41.42	do	Do.
South Amboy, depot Pennsylvania R. R.....	29 29.02	16 35.58	do	Do.
Do.....	28 47.31	17 19.98	do	Do.
Sourland.....	25 51.66	45 39.10	do	Do.
Standard Chemical Co., chimney.....	36 54.00	12 21.73	do	Do.
State Reform School, tower.....	20 35.60	23 55.60	do	Do.
Staten Chemical Co., chimney.....	37 55.90	12 15.47	do	Do.

NEW JERSEY—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41° ° ' "	74°-75° ° ' "		
Stelton, church spire	40 31 01.50	74 24 26.00	C. & G. S.	Final Rept., Vol. I.
Stevens	44 41.09	01 26.44	do	Do.
Do	44 41.14	01 26.44	do	Do.
Taylor Mount	02 03.60	33 01.90	do	Do.
Terhune	51 40.71	04 56.66	do	Do.
Three Bridges, church spire	31 23.23	47 49.49	do	Do.
Throckmorton	15 03.90	10 48.57	do	Do.
Tottenville	30 30.90	14 37.90	do	Do.
Tranquility, church spire	56 38.70	48 14.00	do	Do.
Trenton:				
Spire First Presbyterian church	13 13.13	45 49.18	do	Do.
Spire Roman Catholic church	12 51.50	45 40.60	do	Do.
Spire Methodist church	13 13.50	45 36.70	do	Do.
Spire Baptist church	12 41.40	45 36.40	do	Do.
Statehouse dome	13 13.80	46 13.10	do	Do.
Spire, State and Clinton streets	13 16.80	45 21.30	do	Do.
Van Kensen's house, 1 mile south of Newton	32 16.40	28 06.20	do	Do.
Vnn Riper	53 36.64	08 24.14	do	Do.
Vanhorne	39 08.23	08 25.70	do	Do.
Vreeland	50 00.72	00 39.47	do	Do.
Wallace	44 33.01	11 15.99	do	Do.
Warrenville	53 53.00	50 21.60	do	Do.
Washington, old chimney, bank of canal	45 55.60	59 17.20	do	Do.
Washington Hunter	00 55.51	59 08.33	do	Do.
Do	00 55.73	59 16.80	do	Do.
Washington Rock	36 45.70	28 20.90	do	Do.
Watnong	50 55.48	29 39.93	do	Do.
Wayne, chimney powder mill	55 30.10	16 33.50	do	Do.
Weasel	52 36.81	11 12.21	do	Do.
Westfield, spire Presbyterian church	39 14.10	20 52.70	do	Do.
White Hall	42 29.40	54 00.60	do	Do.
White Hill	08 22.49	43 53.26	do	Do.
White Horse	11 13.50	42 27.11	do	Do.
Williams	34 53.88	12 51.94	do	Do.
Wilson	26 21.67	05 28.82	do	Do.
Wilson Beacon	26 38.60	08 11.22	do	Do.
Windsor, spire	14 34.50	34 57.70	do	Do.
Woodbridge	33 25.21	14 40.83	do	Do.
Spire Presbyterian church	33 42.50	16 25.94	do	Do.
Landing	32 45.93	15 19.71	do	Do.
Woodside	03 47.52	49 34.03	do	Do.
Wynant	32 57.98	14 18.59	do	Do.
Do	36 27.11	13 11.48	do	Do.
Zellis	22 45.72	16 37.64	do	Do.
	39°-40° ° ' "	74°-75° ° ' "		
Absecon	39 25 12.43	74 29 27.03	do	Do.
Absecon light-house	21 58.74	24 52.27	do	Do.
Apple Pie Hill	48 26.62	35 23.83	do	Do.
Atco	46 17.70	53 08.20	do	Do.
Atsion Mill tower	44 21.50	43 30.60	do	Do.
Balcony	55 27.09	23 40.94	do	Do.
Barnegat Inlet	45 58.47	06 15.43	do	Do.
Barnegat light-house	45 51.61	06 23.78	do	Do.
Barnegat, Methodist church spire	45 09.81	13 20.04	do	Do.
Beasley	17 02.53	37 00.20	do	Do.
Beasley Point	16 50.11	37 41.08	do	Do.
Berlin	48 55.85	54 45.07	do	Do.
Blackman	15 07.94	39 33.53	do	Do.
Blangie	28 44.36	41 16.71	do	Do.
Bridgeway, summit	46 34.43	19 33.26	do	Do.
Brigantine Beach	25 52.68	19 57.31	do	Do.
Brown Mill Observatory	58 09.50	34 53.30	do	Do.
Buckingham	55 57.90	28 30.80	do	Do.
Buena Vista	30 50.60	55 29.70	do	Do.
Cape May, court-house spire	04 53.00	49 29.00	do	Do.
Carlisle	12 06.52	57 07.80	do	Do.
Cedar	13 34.08	38 12.08	do	Do.
Cedar Creek	51 47.44	08 12.94	do	Do.
Cedar Hummock	34 10.58	20 39.31	do	Do.
Corson	12 01.01	39 21.35	do	Do.
Cramer	35 12.24	13 12.76	do	Do.
Cranberry	56 40.21	04 18.55	do	Do.
Crese	03 03.25	49 48.51	do	Do.
Cyrus	04 31.75	44 20.80	do	Do.
Dinner Point	38 00.40	15 14.94	do	Do.
Double Creek	44 27.84	10 40.39	do	Do.
Doughty's tavern	26 53.96	51 46.69	do	Do.
Dry Inlet	20 34.98	28 17.72	do	Do.
Eldridge	06 06.03	47 36.46	do	Do.

NEW JERSEY—Continued.

Name.	Latitude.			Longitude.			Authority.	Reference.
	39°-40° ° ' "			74°-75° ° ' "				
Elwood	39	34	40.33	74	42	55.55	C. & G. S.	Final Rept., Vol. 1.
English Creek	22	18	30	39	18	30	do	Do.
Estellville	22	21	40	45	44	10	do	Do.
Evesham, summit of Mount Laurel	56	03	45	53	40	41	do	Do.
Fish	18	39	50	32	34	26	do	Do.
Fishing Creek	01	07	28	56	51	86	do	Do.
Forked River	49	22	83	09	28	41	do	Do.
Four Mile	53	08	70	34	11	60	do	Do.
Gibbsboro	50	20	57	56	59	38	do	Do.
Good Luck Point	55	21	58	07	07	10	do	Do.
Goose Creek	57	07	97	06	40	38	do	Do.
Goshen	07	39	64	53	30	63	do	Do.
Gowdy's house, cupola	57	11	73	10	34	90	do	Do.
Great Swamp	40	42	53	08	59	32	do	Do.
Grore	20	03	74	30	17	18	do	Do.
Hammock	07	00	00	53	30	65	do	Do.
Hammonton	38	48	05	49	19	29	do	Do.
Heart	15	34	23	38	35	80	do	Do.
Hickey	37	37	20	11	23	36	do	Do.
Hickory Island	41	14	94	13	03	12	do	Do.
Holmes	07	35	91	46	13	33	do	Do.
Huckleberry	51	24	50	44	15	70	do	Do.
Island Beach	49	05	52	05	28	73	do	Do.
Isle	10	36	65	40	32	66	do	Do.
Jemima, Mount	43	43	00	27	04	10	do	Do.
Kellogg	26	00	50	59	09	80	do	Do.
Leaming Beach, north	06	29	26	42	32	14	do	Do.
Leaming Point	00	59	84	51	18	08	do	Do.
Leed Point	29	02	37	26	00	00	do	Do.
Leedsville	20	55	88	33	39	42	do	Do.
Do	20	56	52	33	40	28	do	Do.
Lewistown, windmill	59	26	90	37	11	70	do	Do.
Limerick	05	43	37	45	23	69	do	Do.
Linwood	20	54	06	33	38	76	do	Do.
Little Egg Harbor light	30	22	11	17	08	32	do	Do.
Long Beach	33	18	89	14	41	23	do	Do.
Ludlam Beach	08	44	70	41	49	29	do	Do.
Ludlam Landing	10	41	75	51	09	74	do	Do.
Do	10	41	66	51	09	60	do	Do.
Marlton, church tower	53	26	30	55	10	70	do	Do.
Marshall	12	13	47	41	47	00	do	Do.
Martha	40	35	87	28	13	12	do	Do.
McCrea	09	52	62	50	45	96	do	Do.
Medford	54	55	30	51	13	50	do	Do.
Miry Run	23	26	50	41	35	60	do	Do.
Moorestown, Episcopal church spire	57	45	27	57	01	69	do	Do.
Mount Laurel	56	03	50	53	39	30	do	Do.
Mountain Creek	11	46	00	39	11	34	do	Do.
Muskee Hill	18	42	20	57	08	20	do	Do.
New Germany	36	26	48	59	49	07	do	Do.
New Inlet	19	12	19	30	50	95	do	Do.
Nummy Island	01	42	70	47	28	91	do	Do.
Ocean	17	18	69	34	13	14	do	Do.
Oyster Creek	30	27	04	24	35	04	do	Do.
Page	59	09	18	07	08	18	do	Do.
Pecks Beach	16	14	97	35	11	12	do	Do.
Peters Beach	23	20	20	24	21	90	do	Do.
Phillip	53	53	37	04	45	90	do	Do.
Pierce Landing	04	57	53	54	25	38	do	Do.
Pine Hill	47	54	03	59	36	00	do	Do.
Piny Hollow	35	09	90	55	39	70	do	Do.
Public	09	03	43	44	48	17	do	Do.
Retreat, hill	53	52	20	41	47	70	do	Do.
Richland	29	18	96	51	12	59	do	Do.
Risley Landing	22	52	45	31	31	79	do	Do.
River	18	23	07	37	12	11	do	Do.
Road	15	05	28	36	53	77	do	Do.
Robinson	11	26	83	59	42	30	do	Do.
Russia	22	46	20	48	32	90	do	Do.
Ryon	22	45	09	31	33	70	do	Do.
Sea	08	59	50	42	15	64	do	Do.
Seaside Park, flagstaff at post-office	55	15	50	04	44	00	do	Do.
Smithville, mill tower	59	10	70	44	54	70	do	Do.
Somers	18	42	68	35	23	39	do	Do.
Somers Point	18	42	48	35	23	25	do	Do.
Stipson	11	54	61	54	37	91	do	Do.
Stipson Island	11	54	67	54	38	00	do	Do.
Stout	57	37	71	04	35	43	do	Do.
Tatham	06	20	34	43	31	72	do	Do.
Taunton, Hunchman's store cupola	51	12	10	51	21	40	do	Do.
Town Bank, hotel cupola	52	14	32	57	30	84	do	Do.

NEW JERSEY—Continued.

Name.	Latitude.			Longitude.			Authority.	Reference.
	°	'	"	°	'	"		
Townsend.....	39	10	27.04	74	43	29.58	C. & G. S.	Final Rept., Vol. 1.
Tuckahoe, spire.....	17	32.40		45	17.60		do	Do.
Tuckerton	36	10.16		19	47.82		do	Do.
View	10	39.38		43	11.40		do	Do.
Waterford, spire	43	23.90		51	09.40		do	Do.
Weakfish Creek	13	32.00		37	58.33		do	Do.
Weeks Landing	58	58.79		53	09.20		do	Do.
West Creek	10	30.80		55	04.47		do	Do.
Do.....	10	37.79		54	58.35		do	Do.
Weymouth	31	02.18		46	48.46		do	Do.
Stack	30	23.50		46	36.00		do	Do.
Whiting's Hotel flagstaff	57	13.04		22	46.62		do	Do.
Young	13	48.24		40	19.20		do	Do.
	39°-40°			75°-76°				
Acton	39	38	11.81	75	23	04.72	do	Do.
Allen	41	17.34		22	47.66		do	Do.
Alloway	30	15.97		31	48.92		do	Do.
Do	30	08.53		31	48.25		do	Do.
Arnold	23	17.37		25	55.00		do	Do.
Do	23	17.98		25	59.89		do	Do.
Do	23	18.03		25	59.93		do	Do.
Do	23	18.65		25	54.34		do	Do.
Baker	26	19.86		22	05.34		do	Do.
Barker	26	19.96		22	05.40		do	Do.
Ben	17	18.47		17	26.97		do	Do.
Ben Davis	17	15.36		17	29.10		do	Do.
Big Island	19	48.71		18	33.48		do	Do.
Big Mannington Hill	36	57.29		21	41.19		do	Do.
Big Timber Creek	52	45.73		08	04.94		do	Do.
Billingsport	51	03.34		14	35.28		do	Do.
Bird Island	11	47.61		01	29.58		do	Do.
Bombay Hook light-house	21	49.49		30	38.34		do	Do.
Bradford Point	15	56.35		11	53.95		do	Do.
Bridgeton, Baptist church spire	25	43.20		13	58.10		do	Do.
Bridgeton, Chas. R. Elmer's house cupola	25	37.20		12	50.50		do	Do.
Bridgeton spire.....	25	46.48		13	57.71		do	Do.
Buck	25	10.71		13	36.54		do	Do.
Burden	31	48.94		22	52.80		do	Do.
Bush	23	59.79		15	43.25		do	Do.
Caffery	47	31.54		13	19.13		do	Do.
Camden	56	44.06		07	29.69		do	Do.
Cedarville	20	38.48		11	50.65		do	Do.
Spire	20	01.99		12	07.72		do	Do.
Centerton	31	45.30		07	44.40		do	Do.
Chester (opposite)	49	43.37		20	39.64		do	Do.
Chew Hill	48	16.99		10	01.68		do	Do.
Church Landing Point	39	39.95		31	20.27		do	Do.
Clayton, church	39	26.29		05	29.73		do	Do.
Cohansey light-house (old)	20	21.49		21	36.88		do	Do.
Coopers Point	57	15.64		07	42.22		do	Do.
Cove	26	13.73		28	18.14		do	Do.
Crab Creek	50	39.50		17	39.73		do	Do.
Daretown	36	05.20		15	37.20		do	Do.
Davis	22	40.55		20	31.34		do	Do.
Dayre	21	47.78		20	13.07		do	Do.
Do	21	47.65		20	12.97		do	Do.
Deerfield	32	32.20		13	24.20		do	Do.
Dividing Creek	15	20.22		05	23.72		do	Do.
Dunck Beach	20	36.34		22	10.63		do	Do.
Dutch Neck	23	24.10		15	13.00		do	Do.
Dyer Cove	16	06.54		13	42.42		do	Do.
Eagle Island	17	49.26		14	27.10		do	Do.
Eagle Point	52	42.34		10	00.69		do	Do.
East Point	11	31.62		01	17.70		do	Do.
Egg Island	10	25.07		08	05.52		do	Do.
Light-house	10	43.82		08	13.22		do	Do.
Point	10	25.63		08	08.40		do	Do.
Elder Point	12	42.86		02	51.93		do	Do.
Eldridge Hill	39	45.30		18	24.30		do	Do.
Ellet	38	22.75		23	56.45		do	Do.
Elmer	34	57.50		11	12.70		do	Do.
Do	22	13.17		09	09.39		do	Do.
Elsinboro	32	26.33		32	03.54		do	Do.
Do	32	27.48		32	03.46		do	Do.
Elsinboro Point, in old Swedish fort	32	24.94		32	03.81		do	Do.
Fairton	22	33.37		13	12.26		do	Do.
Do	22	13.90		09	09.60		do	Do.
Fairview	58	23.13		03	56.89		do	Do.

NEW JERSEY—Continued.

Name.	Latitude.			Longitude.			Authority.	Reference.
	39°-40° " / "			75°-76° " / "				
False Egg Point.....	39	12	01.23	75	10	11.92	C. & G. S.	Final Rept., Vol. 1.
Finn Point.....	36	00.15		33	02.57		do	Do.
Do.....	36	01.31		33	05.32		do	Do.
Fish club, flagstaff.....	53	16.54		07	43.82		do	Do.
Fish cove.....	58	23.87		03	53.17		do	Do.
Flax Farm.....	16	36.52		13	13.95		do	Do.
Fort Mifflin.....	52	31.67		12	45.28		do	Do.
Fortesque.....	14	12.65		10	19.60		do	Do.
Do.....	14	07.19		10	16.10		do	Do.
Big flagstaff.....	14	15.38		10	14.22		do	Do.
Pavilion flagstaff.....	14	12.23		10	19.14		do	Do.
Garrison.....	23	36.88		13	22.47		do	Do.
Glassboro, white spire.....	42	00.70		06	46.70		do	Do.
Gloucester Point.....	53	49.18		07	46.86		do	Do.
Greenwich.....	23	27.61		20	41.20		do	Do.
Haddonfield.....	52	53.37		02	23.30		do	Do.
Do.....	53	59.30		01	45.70		do	Do.
Hann.....	25	27.09		15	26.63		do	Do.
Harris.....	25	10.11		17	35.77		do	Do.
Hawkins.....	25	35.42		20	40.87		do	Do.
Heusted.....	22	58.36		18	58.15		do	Do.
Horner.....	57	40.85		05	42.31		do	Do.
Iona.....	36	10.20		04	38.20		do	Do.
Isaac.....	50	47.94		15	42.77		do	Do.
Jacob Creek.....	21	40.07		23	38.25		do	Do.
Jericho.....	29	19.80		21	50.20		do	Do.
Jocelyne.....	18	40.25		08	23.09		do	Do.
John Dayre.....	26	23.79		12	46.95		do	Do.
Kaighn Point.....	55	45.96		07	52.54		do	Do.
Kinsey.....	38	06.31		33	22.14		do	Do.
Laurel.....	26	21.44		13	43.04		do	Do.
Lippincott.....	43	20.56		18	49.81		do	Do.
Mahon River light-house.....	10	19.50		24	02.83		do	Do.
Man Island.....	50	22.77		19	27.99		do	Do.
Marcus Hook (opposite).....	47	42.17		24	21.57		do	Do.
Mathew.....	51	19.64		12	42.73		do	Do.
Maurice River light-house.....	11	45.23		01	39.53		do	Do.
Maurice River (west).....	19	43.20		02	53.16		do	Do.
Merchantville, east spire.....	57	00.60		02	57.00		do	Do.
Mickle.....	54	40.31		07	22.47		do	Do.
Millville, standpipe.....	24	15.10		02	52.70		do	Do.
Morris.....	59	23.70		02	36.51		do	Do.
Morris Hill.....	59	24.78		02	36.76		do	Do.
Mount Pleasant.....	23	25.17		15	22.30		do	Do.
Mulford Landing.....	22	21.10		19	26.00		do	Do.
Nan.....	16	40.53		14	46.80		do	Do.
Nantuxent.....	16	36.81		14	45.49		do	Do.
New.....	24	09.65		26	35.13		do	Do.
New Boston.....	31	17.90		17	10.20		do	Do.
Newfield.....	32	13.54		00	16.13		do	Do.
Ogden.....	22	06.57		15	28.23		do	Do.
Oldman Creek.....	47	04.94		25	52.51		do	Do.
Oldman Point.....	45	40.44		27	41.32		do	Do.
Pine Mount.....	25	03.79		20	15.94		do	Do.
Pot.....	29	06.11		31	27.73		do	Do.
Port Norris.....	14	36.29		01	17.09		do	Do.
Powder Wharf.....	54	13.47		08	03.23		do	Do.
Red Bank flagstaff.....	52	20.45		11	20.99		do	Do.
Reedy Island light-house.....	30	03.37		34	08.76		do	Do.
Reeves.....	39	06.58		23	05.60		do	Do.
Robbin.....	44	34.39		20	02.15		do	Do.
Roman Catholic Seminary.....	29	43.26		01	37.26		do	Do.
Round.....	25	36.85		27	39.52		do	Do.
Round Island.....	25	21.99		27	33.14		do	Do.
Do.....	25	22.02		27	33.17		do	Do.
Do.....	25	27.04		27	36.01		do	Do.
Salem:								
Presbyterian church spire.....	34	24.10		27	59.28		do	Do.
Episcopal church spire.....	34	23.62		27	57.38		do	Do.
Scull.....	43	33.11		20	42.13		do	Do.
Do.....	40	59.77		20	52.29		do	Do.
Sea Breeze, Warner House flagstaff.....	19	26.71		19	14.83		do	Do.
Sheppard.....	22	41.43		21	22.81		do	Do.
Ship John light-house.....	18	19.10		22	37.08		do	Do.
Sneed.....	27	32.96		31	01.94		do	Do.
Stony.....	27	47.42		31	12.55		do	Do.
Do.....	28	01.83		31	16.12		do	Do.
Stony Point.....	27	33.09		31	09.25		do	Do.
Stow.....	22	50.27		24	51.69		do	Do.
Stringtown.....	40	13.30		14	18.80		do	Do.
Swedesboro, spire Episcopal church.....	45	02.04		18	26.72		do	Do.

NEW JERSEY—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	39°-40° ° ' "	° ' "	75°-76° ° ' "	° ' "		
Thompson Point.....	39 50 34.93		75 18 23.90		C. & G. S.	Final Rept., vol. 1.
Tioga.....	58 45.36		05 14.26		do.	Do.
Tomlin.....	13 46.84		00 09.58		do.	Do.
Tonkin Island.....	49 14.50		22 00.34		do.	Do.
Do.....	48 52.06		22 50.63		do.	Do.
Tripod.....	12 36.04		02 43.10		do.	Do.
Turkey Point.....	14 59.23		07 41.06		do.	Do.
Vineland, church.....	29 10.17		01 16.12		do.	Do.
West.....	45 39.83		12 20.01		do.	Do.
West Point.....	19 06.31		15 30.23		do.	Do.
Wheaton.....	23 29.83		19 25.40		do.	Do.
Wood Point.....	57 28.27		05 38.73		do.	Do.
Woodbury Creek.....	51 53.13		11 52.75		do.	Do.
Woodruff.....	24 49.75		08 47.25		do.	Do.
Cape May:	38°-39°		74°-75°			
Old light-house.....	38 55 51.84		74 57 58.50		do.	Do.
New light-house.....	55 53.62		57 35.17		do.	Do.
Congress Hall.....	55 54.21		55 29.37		do.	Do.
Higbee.....	57 17.32		57 51.55		do.	Do.
Two-Mile Beach.....	57 29.33		50 59.70		do.	Do.
Weeks Landing.....	58 53.79		52 69.20		do.	Do.

PENNSYLVANIA.

	42°-43° ° ' "		79°-80° ° ' "			
	° ' "	° ' "	° ' "	° ' "		
Harbor Creek, Erie County.....	42 12 03.70		79 56 35.00		L. S.	Final Rept.
Erie.....	42 03 41.44		80 11 11.64		do.	Do.
Beacon light-house No. 2.....	09 11.90		04 40.20		do.	Do.
Light-house.....	09 17.49		04 46.95		do.	Do.
Standpipe of waterworks.....	07 53.30		05 50.80		do.	Do.
Miles Grove.....	03 38.80		21 49.90		do.	Do.
Presque Isle light-house.....	09 56.70		06 56.70		do.	Do.
Bald, Lackawanna County.....	41 25 41.24		75 45 04.92		C. & G. S.	Bull. 122.
Bald, 3, Clinton County.....	37 48.30		25 37.60		G. S.	Do.
Bellevue, church.....	24 03.54		41 14.23		C. & G. S.	Do.
Elk.....	42 53.84		33 39.44		do.	Do.
Farview Tower.....	35 35.36		25 55.60		G. S.	Do.
Glen Summit.....	08 53.00		50 30.80		do.	Do.
Hyde Park, church.....	24 50.78		41 03.36		C. & G. S.	Do.
Jermyn.....	32 29.01		34 28.58		G. S.	Do.
Miller.....	29 20.95		59 08.86		do.	Do.
Moosic.....	27 20.65		29 44.07		C. & G. S.	Do.
Nescopeck, 1.....	05 04.29		56 27.47		G. S.	Do.
No. 10.....	24 38.74		34 20.59		C. & G. S.	Do.
Olyphant, church.....	28 22.88		36 23.74		do.	Do.
Panther.....	14 09.03		38 10.92		do.	Do.
Penobscot.....	10 57.14		52 21.83		do.	Do.
Petersburg, church.....	24 38.04		38 30.25		do.	Do.
Pimple Hill.....	01 36.33		30 18.31		do.	Do.
Pimple, tree.....	01 36.79		30 20.48		do.	Do.
Providence, church.....	26 27.20		39 29.80		do.	Do.
Salem.....	33 01.48		27 26.00		G. S.	Do.
Scranton, court house.....	24 23.58		39 46.62		C. & G. S.	Do.
Wilkesbarre, church.....	14 31.77		53 03.59		do.	Do.
Woodside, church.....	00 37.47		54 27.42		do.	Do.
Wyoming.....	20 54.16		50 39.69		G. S.	Do.
Athens.....	41 57 31.92		76 36 58.96		S. S.	Rept. '87.
Knob.....	05 44.16		20 46.41		C. & G. S.	Bull. 122.
Kocher.....	21 28.05		07 04.75		G. S.	Do.
Litchfield.....	59 22.88		25 48.22		S. S.	Rept. '87.
Nanticoke, church.....	12 16.01		00 01.90		C. & G. S.	Do.
Nescopeck, 2.....	02 13.91		05 03.40		G. S.	Bull. 122.
North.....	19 09.97		33 17.13		do.	Do.
Ricketts.....	18 31.13		18 34.67		C. & G. S.	Do.
Shickshinny.....	09 59.40		09 08.77		do.	Do.
Warren.....	59 23.38		10 43.82		S. S.	Rept. '87.
Bly.....	41 54 36.02		77 00 40.05		do.	Do.
Friars Head.....	58 15.90		43 41.40		C. & G. S.	Do.
Harrison.....	54 59.04		41 51.83		S. S.	Do.

PENNSYLVANIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° " "	80°-81° " "		
Edinboro.....	41 52 28.41	80 10 46.88	L. S.....	Final Rept.
State Line between Pennsylvania and Ohio.....	59 17.70	29 08.20	do.....	Do.
	40°-41°	74°-75°		
Attleboro, academy cupola.....	40 10 53.56	74 55 17.83	do.....	
Belmont.....	08 22.41	56 48.39	do.....	
Briggs.....	12 25.09	53 37.11	do.....	
Bristol, Kenzey Hotel, cupola, called Posten's Hotel in 1877.....	05 40.61	51 22.92	do.....	
Centerville.....	09 44.69	50 18.30	do.....	
China College.....	04 48.82	54 03.01	do.....	
Delance.....	02 46.15	57 46.20	do.....	
Church spire.....	02 58.11	57 25.15	do.....	
Falsington.....	11 53.52	48 44.20	do.....	
Fisher.....	02 37.01	59 15.71	do.....	
Martingale.....	14 37.99	56 57.15	do.....	
Newtown.....	15 03.41	55 13.93	do.....	Bull. 122.
Oxford.....	10 24.34	53 41.71	do.....	
Partridge.....	03 16.62	58 33.33	do.....	
Pleasantville.....	09 51.19	59 04.35	do.....	
Stackhouse.....	09 59.18	55 01.55	do.....	
Thomas.....	13 14.82	58 19.69	do.....	
Turkey Hill.....	09 52.02	46 29.37	do.....	
Watson.....	12 14.66	55 28.20	do.....	
Wynkop.....	12 59.80	58 45.27	do.....	
	40°-41°	75°-76°		
Bethlehem, Reformed church.....	40 37 16.77	75 22 33.44	do.....	
Bake Oven.....	44 54.11	44 02.22	do.....	Do.
Big Rock.....	33 53.73	26 16.42	do.....	Do.
Black Spot.....	20 51.15	54 09.86	do.....	Do.
Tower.....	20 50.32	54 09.73	do.....	Do.
Bridesburg.....	00 02.75	03 42.51	do.....	
Arsenal flagstaff (1842).....	00 29.24	03 59.66	do.....	
Foundry.....	00 13.16	03 46.87	do.....	
Church.....	00 08.61	03 58.95	do.....	
Arsenal flagstaff (1878).....	00 29.06	04 00.71	do.....	
Cherry Tree.....	02 44.04	07 20.98	do.....	
Chestnut Hill, flagstaff.....	04 35.93	12 27.57	do.....	
Churchville.....	11 36.98	01 18.43	do.....	
Clapier.....	01 12.21	10 07.82	do.....	
Clark.....	00 15.43	14 17.40	do.....	
Collegeville, spire.....	02 44.22	01 01.96	do.....	
Diston:				
Flagstaff.....	01 07.15	02 14.71	do.....	
Chimney.....	01 05.93	02 23.04	do.....	
Dutch Settlement, Union church.....	03 49.00	04 43.00	S. S.....	Rept. '83.
Fancy Hill, Berks County.....	19 24.89	42 52.13	C. & G. S.....	Bull. 122.
Frankford:				
Pumping station.....	00 48.25	02 51.02	do.....	
Chimney.....	00 50.61	02 51.83	do.....	
Catholic church spire.....	00 42.48	05 25.03	do.....	
French.....	02 06.52	08 36.15	do.....	
George Knowles.....	01 17.67	01 53.53	do.....	
Germantown:				
Spire.....	01 02.16	10 48.10	do.....	
Church.....	01 55.66	10 29.23	do.....	
Haycock.....	29 18.96	13 10.34	do.....	
Knob.....	53 44.07	49 45.48	do.....	Do.
Kreutzer.....	37 15.58	31 42.05	do.....	Do.
Lennig:				
Square chimney.....	00 15.74	03 36.57	do.....	
Round chimney.....	00 21.34	03 40.29	do.....	
Lone Tree.....	43 10.50	52 43.52	do.....	
Long.....	21 28.35	42 03.79	do.....	Do.
Miles.....	11 16.96	03 13.18	do.....	
Pennypack.....	02 11.35	00 00.32	do.....	
Philadelphia:				
House of Correction.....	01 30.72	00 52.76	do.....	
Flagstaff.....	01 43.63	00 58.73	do.....	
Chimney.....	01 48.94	01 04.44	do.....	
St. Vincent's School cupola.....	01 21.10	01 53.09	do.....	
McKean's tower.....	01 11.80	10 07.75	do.....	
Potter's Mill, cupola.....	00 21.18	07 54.82	do.....	
Mr. George's house, flag-pole on cupola.....	00 19.10	14 16.96	do.....	
Richard's house, cupola.....	00 42.13	10 46.87	do.....	
Port Clinton.....	36 15.05	59 27.82	do.....	Do.
Rockwell house.....	00 14.72	12 23.15	do.....	
Smith Gap.....	49 21.79	25 21.91	do.....	

PENNSYLVANIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41°	75°-76°		
Souta, cupola on house.....	40 01 26.18	75 02 24.01	C. & G. S.	
South base.....	02 04.86	08 36.65	do	
Stub, center line, Broad street, Philadelphia.	02 04.81	08 45.58	do	
Summit Hill:				
Clock tower of school.....	49 35.58	52 27.34	do	
Presbyterian church spire (sharp).....	49 32.57	52 23.99	do	
Catholic church spire (blunt).....	49 27.84	52 51.57	do	
Switchback, chimney.....	49 31.95	51 27.53	do	
Tacony:				
Water tower.....	01 42.92	02 41.24	do	
Methodist church spire.....	01 28.92	02 34.55	do	
Ten Mile Point.....	01 26.06	01 04.88	do	
Topton.....	28 37.49	40 58.25	do	Bull. 122.
Van Kirk.....	00 33.06	03 21.12	do	
Vancleve.....	09 10.67	03 01.80	do	
Washington.....	01 07.64	02 11.75	do	
Willowgrove.....	08 31.94	06 22.28	do	
	40°-41°	76°-77°		
Barry.....	40 44 15.39	76 25 42.12	do	Do.
Bears Head.....	51 01.35	04 47.65	do	Do.
Beartown.....	04 51.95	00 48.49	do	
Berries.....	31 37.24	55 54.36	G. S.	Do.
Big Lick.....	35 42.95	37 03.20	do	Do.
Buck.....	57 00.00	14 45.22	do	Do.
Catawissa.....	56 20.28	25 33.10	do	Do.
Dauphin.....	21 59.05	54 32.71	C. & G. S.	Do.
Frackville.....	46 09.67	15 28.06	G. S.	D.J.
Governor Dick.....	14 46.77	27 21.11	C. & G. S.	
Lancaster, prison tower.....	02 24.58	17 33.52	do	
Little Mahanoy.....	44 35.47	49 56.57	G. S.	Do.
Mahanoy.....	45 45.95	43 07.20	do	Do.
Mahanoy, 1.....	45 20.08	35 24.24	do	Do.
Mahanoy, 2.....	45 28.87	37 07.88	do	Do.
Mahanoy, 3.....	45 20.08	35 24.24	do	Do.
Montour.....	56 29.82	49 00.42	C. & G. S.	Do.
Nescopeck, 3.....	59 08.98	18 46.16	G. S.	Do.
Round Top.....	06 13.24	55 34.14	C. & G. S.	
Swatara Gap.....	28 15.40	32 23.52	do	
White Horse.....	30 55.19	17 33.95	do	Do.
Womelsdorf.....	19 28.25	11 44.69	do	Do.
Woodruff.....	52 45.62	34 33.03	G. S.	Do.
	39°-40°	75°-76°		
Alburger.....	39 52 06.36	75 17 01.86	C. & G. S.	
Belmont Reservoir.....	59 09.33	13 08.73	do	
Bethel.....	50 46.23	29 25.34	do	
Black.....	52 14.19	13 08.55	do	
Bristol.....	59 22.64	04 13.22	do	
Blackhorse.....	54 48.45	25 26.01	do	
Buist.....	55 00.77	13 36.05	do	
Canal.....	56 43.51	08 19.31	do	
Cannonball.....	53 22.52	13 29.37	do	
Chester:				
Brickley's flagstaff.....	50 51.75	21 35.07	do	
Catholic cathedral.....	51 05.43	21 39.13	do	
Catholic church.....	51 05.25	21 38.90	do	
City hall.....	50 52.20	21 36.86	do	
Coyne's Chemical Works chimney.	50 37.28	21 26.76	do	
Crozier's Seminary.....	51 21.58	22 16.78	do	
Eureka Steel Works chimney.....	50 28.18	22 36.53	do	
Folsom's sugar refinery chimney.....	50 39.46	21 23.78	do	
Irving & Leiper, cotton mill chimney.	50 31.38	21 48.70	do	
Morton & Black—				
Cupola.....	51 03.29	21 06.36	do	
Sawmill chimney.....	51 03.74	21 05.19	do	
Octagonal chimney.....	50 52.37	21 48.53	do	
Presbyterian church.....	50 53.10	21 30.30	do	
Roach—				
House.....	50 51.75	22 18.62	do	
Office.....	50 26.68	22 04.66	do	
Sharpless Dyewood Works.....	50 12.00	22 19.34	do	
Simpson, paint works, chimney.....	51 11.46	20 32.54	do	
Yarnall, mill chimney.....	50 02.18	22 38.04	do	
Coliseum, flagstaff.....	56 52.54	09 52.11	do	
Crothers.....	55 19.82	13 18.93	do	
Crum Creek, near mouth, engineer's signal.	51 28.90	19 30.74	do	
Davis.....	55 40.01	18 15.63	do	

PENNSYLVANIA—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	39°-40°	° ' "	75°-76°	° ' "		
Delaware Lead Works	39 56	36.71	75 08	13.46	C. & G. S.	.....
Devine's mill (near Philadelphia) cupola.	56	48.73	10	37.36	do	.....
East League Island	53	14.88	09	58.07	do	.....
Eastwicks tower, vicinity of Phila- delphia.	55	51.97	12	46.09	do	.....
Engineer signal, on wharf at Fort Mifflin.	52	28.13	12	40.99	do	.....
Factory, near Philadelphia	58	40.60	08	43.25	do	.....
Five Mile Point	59	04.44	04	29.83	do	.....
Five Mile Point, 2, Harrison Wharf ..	59	08.49	04	19.51	do	.....
Fort Mifflin:						
Flagstaff (1843)	52	31.64	12	45.33	do	.....
Light-house (1878-79)	52	14.49	12	27.05	do	.....
Fuller's tower	52	18.10	19	58.60	do	.....
General Jeffries, tower	52	43.57	19	25.23	do	.....
George Hill, elevator	59	02.92	13	29.03	do	.....
Gloucester Ferry	53	43.25	09	50.17	do	.....
Glue Chimney	58	55.50	05	57.97	do	.....
Gray's Ferry	56	27.22	12	28.70	do	.....
Hog Island	52	00.87	14	19.59	do	.....
Jenks	59	52.82	03	53.26	do	.....
Kensington:						
First Presbyterian church	58	12.69	07	48.40	do	.....
Iron works, black derrick	57	43.22	08	02.17	do	.....
Water pipe	58	09.66	07	24.65	do	.....
Lamoken	50	40.01	22	33.06	do	.....
Lazaretto	51	37.03	18	11.65	do	.....
Cupola	51	38.84	18	01.69	do	.....
Flagstaff (1849-1879)	51	25.97	18	02.14	do	.....
Lazaretto, 2	51	36.27	18	08.21	do	.....
League Island	53	09.09	11	28.62	do	.....
Leiperville (1843-1879)	52	25.62	19	34.94	do	.....
Lemor Hill	58	17.53	11	21.22	do	.....
Logan	54	03.10	08	05.58	do	.....
Londonderry	51	50.51	52	50.44	do	.....
Lukens	51	52.49	17	57.85	do	.....
Maddock	52	16.99	20	00.56	do	.....
Maiden Island, engineer signal 3	51	21.63	15	19.60	do	.....
Manderson, north chimney of house ..	57	54.14	07	06.26	do	.....
Marcus Hook	48	41.39	24	44.34	do	.....
Baptist church	48	49.14	24	47.78	do	.....
Episcopal church	48	52.65	24	41.65	do	.....
Pioneer Iron Works chimney	48	48.36	24	38.40	do	.....
Tenderthorpe Club House	48	38.71	24	59.52	do	.....
Missimer	44	59.07	48	03.78	do	.....
Monument Cemetery, spire	58	54.26	09	28.10	do	.....
Mount Hope	52	27.55	26	28.03	do	.....
Movies, 2 (1884)	59	23.70	02	36.51	do	.....
North League Island	53	14.84	09	57.83	do	.....
Old Bank	54	35.43	13	34.05	do	.....
Old Oak Tree	54	04.17	13	00.77	do	.....
One	54	43.87	08	10.90	do	.....
Paschall	54	49.36	14	30.05	do	.....
Pennsylvania Military Academy	51	42.04	21	20.40	do	.....
Penrose Ferry, lantern of draw	53	43.68	12	33.42	do	.....
Philadelphia:						
Aldine Hotel	57	06.48	10	22.53	do	.....
Almshouse, gray chimney	56	53.61	11	44.82	do	.....
Arch Street church	57	12.49	09	25.86	do	.....
Arch Street Hotel, corner	57	06.10	08	27.73	do	.....
Arch Street Wharf, house	57	05.30	08	23.86	do	.....
Baptist church	57	16.01	11	40.77	do	.....
Baugh's black derrick	55	28.26	08	20.03	do	.....
Beck's shot tower	57	23.39	10	31.61	do	.....
Boiler house chimney	54	50.63	08	05.08	do	.....
Boston Steamship Co. (pier 20 S. W.)	56	34.81	03	30.77	do	.....
Brown street, river market house ..	57	41.25	08	13.37	do	.....
Burd's Orphan Asylum, cross on lower cupola	57	43.59	15	05.08	do	.....
Burnt Factory, south chimney (old lazaretto)	53	19.79	12	23.61	do	.....
Center line of Broad street on tower of city hall	57	10.08	09	49.86	do	.....
Central High School Observatory ..	57	47.20	09	40.81	do	.....
City hall—						
Center line of Broad street ...	57	06.85	09	50.53	do	.....
Main tower station (near northwest corner)	57	10.05	09	50.17	do	.....
Christ church	57	02.67	08	39.73	do	.....

PENNSYLVANIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40°	75°-76°		
	° / "	° / "		
Philadelphia—Continued.				
Cramp's shears	39 58 13.52	75 07 02.39	C. & G. S.	
Delaware avenue market house ..	56 39.78	08 34.15	do.....	
Fire plug, Fifty-third street.....	57 36.48	13 37.52	do.....	
Franklin Sugar Refinery, south turret.....	56 22.82	08 34.24	do.....	
Gastower (west tower near river) ..	55 16.90	12 09.32	do.....	
Girard College, on roof of.....	58 26.60	10 13.54	do.....	
Girard Point elevator.....	53 40.32	11 54.31	do.....	
Jaynes tower.....	56 54.55	08 45.48	do.....	
Levee, 1.....	53 54.41	08 27.87	do.....	
Levee, 2.....	53 41.23	09 06.73	do.....	
Lombard street wharf.....	56 29.01	08 30.48	do.....	
Market street, northeast corner of wharf.....	56 56.56	08 26.39	do.....	
Market street and Delaware ave- nue.....	56 59.02	08 29.70	do.....	
Moro Philips flagstaff (pier 35 S. W.).....	56 16.70	08 29.92	do.....	
Navy-yard flagstaff.....	53 16.26	10 30.46	do.....	
Navy-yard signal, center of Broad street.....	53 29.78	10 37.76	do.....	
Neafie and Levy's shears.....	57 59.55	07 35.76	do.....	
New high school.....	57 47.19	09 40.81	do.....	
Noble street wharf.....	57 30.70	08 12.26	do.....	
Old high school, observatory.....	57 05.95	09 45.20	do.....	
Old navy-yard shears.....	55 52.00	08 29.41	do.....	
Otis street, north corner of wharf.	58 05.41	07 20.93	do.....	
Park elevator.....	58 17.54	11 21.31	do.....	
Philadelphia and Reading (pier 14 S. W.).....	56 42.44	08 29.56	do.....	
Philadelphia and Reading R. R. wharf.....	58 21.83	06 41.75	do.....	
Post-office.....	57 02.19	09 21.48	do.....	
Presbyterian Home.....	55 59.82	13 37.91	do.....	
Race Street Wharf.....	57 19.97	08 21.68	do.....	
Ridgeway House— Corner.....	56 59.01	08 29.71	do.....	
Flagstaff.....	56 59.25	08 29.76	do.....	
Roman Catholic cathedral.....	57 26.71	10 07.66	do.....	
St. Bonifacius church.....	58 54.60	08 08.48	do.....	
St. John's church spire.....	58 11.87	09 43.14	do.....	
St. Paul's church.....	57 47.59	08 31.12	do.....	
St. Philip's Literary Institute, octagonal spire on Queen street, near Sixth.....	56 16.35	09 12.04	do.....	
St. Peter's church.....	56 35.34	08 53.38	do.....	
Salt works chimney.....	54 47.95	08 19.75	do.....	
Salt company's wharf.....	54 51.85	07 59.35	do.....	
Screw dock.....	57 49.99	07 56.06	do.....	
Shackamaxon street (pier 49, wharfage signpost).....	57 50.12	07 51.18	do.....	
Ship house, south gable.....	53 14.68	10 38.81	do.....	
Sparks shot tower.....	56 05.23	08 48.00	do.....	
State House, cupola.....	56 55.64	09 09.41	do.....	
University of Pennsylvania, east tower.....	57 05.11	11 37.23	do.....	
Vine street ferry flagstaff.....	57 18.99	08 22.74	do.....	
West Arch Street church.....	57 17.57	10 10.93	do.....	
West Philadelphia Hall, flagstaff ..	57 22.25	11 40.61	do.....	
Pike.....	59 05.80	04 45.48	do.....	
Point Breeze.....	54 31.71	12 18.56	do.....	
Flagstaff.....	54 11.11	11 42.39	do.....	
Richmond.....	58 18.71	06 59.44	do.....	
Ridley Creek.....	51 11.90	20 24.61	do.....	
Sanderson.....	50 12.92	23 50.97	do.....	
Schuylkill.....	53 35.90	11 42.32	do.....	
Schuylkill Range beacon, front (1878).	53 20.11	11 38.25	do.....	
Schuylkill Range beacon, rear (1878-79).....	53 27.22	11 34.95	do.....	
Schuylkill arsenal, flagstaff on cupola.	56 26.33	11 20.16	do.....	
Scott.....	55 59.19	08 27.31	do.....	
Serrill.....	52 58.19	14 49.91	do.....	
Sinickson.....	54 29.07	07 56.97	do.....	
Smith Island.....	56 21.05	08 15.82	do.....	
Flagstaff.....	56 48.66	08 17.27	do.....	
Smith Island, 2.....	56 47.97	08 09.75	do.....	
South Chester, schoolhouse.....	50 39.06	23 05.62	do.....	
South League Island, 2.....	53 09.13	11 28.68	do.....	
South League Island, Die River.....	53 09.12	11 28.66	do.....	
Stewart.....	52 25.01	19 34.57	do.....	
Strickersville.....	43 55.38	47 27.54	do.....	

PENNSYLVANIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40° ° / "	75°-76° ° / "		
Three.....	39 53 47.69	75 08 47.38	C. & G. S.	
Thurlow.....	49 41.25	23 11.90	do	
Tinnicum.....	51 42.32	16 03.89	do	
Tioga, 2 (1884).....	58 45.36	05 14.26	do	
Tonkins Island west.....	48 52.09	22 50.64	do	
Trainer's (E.) mill, 3.....	49 37.65	24 03.06	do	
Trainer's (E.) tower.....	49 54.54	24 34.19	do	
West Philadelphia, Presbyterian hos- pital.....	57 30.81	11 58.50	do	
Windmill Island, 1.....	56 34.37	08 18.95	do	
Windmill Island, 2.....	56 25.88	08 14.40	do	
Windmill Island: South point post.....	56 18.84	08 15.10	do	
Chimney.....	56 34.34	08 14.22	do	
Yard.....	58 24.80	23 13.79	do	
	39°-40° ° / "	76°-77° ° / "		
Pulpit Rock.....	39 51 26.77	76 56 53.27	do	
Rawlinsville.....	53 09.54	15 58.37	do	
Winterstown.....	49 32.07	36 09.30	do	

DELAWARE.

	39°-40° ° / "	75°-76° ° / "		
Buck, 2.....	39 32 26.78	75 43 55.18	C. & G. S.	
Grandview.....	42 42.66	42 22.72	do	
Iron Hill.....	38 20.48	45 07.67	do	
Meetinghouse Hill.....	42 46.28	42 40.12	do	
Naaman Creek.....	48 05.47	26 32.96	do	
Naaman Creek, 2.....	48 17.61	26 01.06	do	
Taggart.....	47 29.91	27 37.10	do	

MARYLAND.

	39°-40° ° / "	75°-76° ° / "		
Gray Hill.....	39 36 47.69	75 47 51.69	C. & G. S.	
	39°-40° ° / "	76°-77° ° / "		
Abingdon, cupola.....	39 27 41.50	76 16 42.21	do	
Baltimore Cemetery, brown spire.....	18 45.23	34 52.00	do	
Baltimore: City Hall cupola.....	17 27.12	36 39.68	do	
Fort Avenue— East base.....	15 56.51	35 05.60	do	
West base.....	16 19.53	36 11.32	do	
Grace church spire, Methodist.....	17 52.00	38 14.42	do	
Hospital (1863).....	17 50.35	35 31.39	do	
Holy Cross, German Catholic church spire.....	16 34.28	36 41.33	do	
Johns Hopkins, hospital cupola.....	17 50.25	36 36.91	do	
Sacred Heart Catholic church spire.....	17 04.89	34 08.38	do	
St. James church spire.....	18 04.54	36 07.59	do	
St. John's church, brown spire.....	19 31.52	36 33.24	do	
Washington Monument, head of statue.....	17 51.07	36 57.34	do	
Bay View Asylum, vane.....	17 23.33	33 06.73	do	
Buchanan.....	15 29.85	32 39.66	do	
Canton, cupola Chipman's chair fac- tory.....	16 45.92	34 44.71	do	
Chase, flagstaff on B. & O. coffee warehouse on Chase's wharf.....	16 44.89	35 47.12	do	
Clifton, cupola vane.....	19 14.99	35 15.05	do	
Clinton.....	15 44.52	34 06.91	do	
Colgate.....	15 25.23	32 30.74	do	
De Sales, cross on cupola Mt. De Sales Carmelite convent.....	17 06.57	43 19.86	do	
Druid, small spire on cupola of Druid Hill Park House.....	19 24.43	38 50.44	do	
Elevator B, belfry.....	16 11.02	35 02.05	do	
Federal (1886).....	16 48.96	36 30.17	do	
Ferry.....	15 33.04	36 44.83	do	
Finlay, on Cubb Hill.....	24 28.00	81 28.51	do	
Fishing Point.....	13 50.75	33 49.13	do	

MARYLAND—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40°	76°-77°		
	° ' "	° ' "		
Foley Wharf.....	39 15 43.87	76 34 20.55	C. & G. S.	
Fort Avenue:				
East base.....	15 56.52	35 05.60	do	
West base.....	16 19.53	36 11.32	do	
Fort Carroll light-house (1866).....	12 52.95	31 09.04	do	
Fort Marshall, flagstaff (1863).....	17 07.46	34 06.02	do	
Fort McHenry, most easterly salient of.....	15 47.38	34 45.86	do	
Fort McHenry (1842-1886).....	15 47.47	34 46.88	do	
Gail and Ax, vane of tobacco factory.....	16 59.36	36 51.22	do	
Garrity.....	15 01.07	31 36.44	do	
Gas.....	16 32.86	34 11.99	do	
Green cupola, west end B. & O. piers 8 and 9.....	16 21.53	35 16.00	do	
Green Mount Cemetery, brown spire.....	18 25.93	36 27.82	do	
Guano factory cupola, a mill in 1866.....	16 43.66	36 32.94	do	
Hawkins Point light-house (1869).....	12 28.42	31 58.38	do	
Hawkins Point, 2 (1866).....	12 35.24	31 59.89	do	
Hawkins Point, 3 (1866).....	12 34.89	31 57.96	do	
House of Refuge, apex of taller turret.....	15 51.12	43 25.70	do	
Knabe piano factory, cupola vane.....	16 38.69	37 21.17	do	
Leading.....	13 00.74	33 00.43	do	
Leading Point light-house (1869).....	12 49.33	33 07.80	do	
Lawrence.....	16 19.41	36 06.71	do	
Lazaretto Point light-house (1843-1886).....	15 45.66	34 17.96	do	
Linsted.....	05 21.73	29 08.80	do	
Lynch, in water area.....	15 09.28	26 52.34	do	
McDonald, house cupola.....	20 19.09	36 47.34	do	
Moale.....	15 52.96	37 13.30	do	
Mount Alto.....	19 06.20	40 33.61	do	
No. 1.....	14 46.75	36 07.32	do	
Notre Dame Convent, lightning rod.....	21 05.13	37 17.50	do	
Oak.....	16 18.99	40 21.11	do	
Osborne River.....	27 54.94	16 52.84	do	
Pious Hill.....	20 15.02	33 40.71	do	
Principio.....	35 36.69	00 16.41	do	
Rock Point, 2 (1866).....	10 02.02	28 45.01	do	
Rosanne.....	17 30.76	43 04.56	do	
Sallers Point, 2 (1866).....	13 39.96	30 49.19	do	
Sallers Point, 3 (1866).....	13 39.37	30 48.26	do	
Sallers Shore.....	13 54.22	31 02.42	do	
Sand Hill.....	14 51.35	35 01.61	do	
Shyrock's Wharf, flagstaff.....	16 42.12	35 50.02	do	
Small white spire.....	16 18.14	39 27.86	do	
Soper.....	05 11.84	57 00.72	do	
Spring Gardens.....	16 24.49	37 38.20	do	
Stabler.....	07 17.71	59 06.49	do	
Taylor.....	16 48.54	35 58.11	do	
Tyson.....	14 31.75	34 01.80	do	
United States bonded warehouse, flagstaff.....	16 47.45	35 23.69	do	
Webb.....	05 26.05	40 32.16	do	
Woodall.....	16 15.22	35 53.25	do	
Woodlawn House, apex of roof.....	19 38.43	37 53.71	do	
	39°-40°	77°-78°		
	° ' "	° ' "		
Camp Hill.....	39 04 32.46	77 18 38.80	do	
Catoctin, near Frederick.....	20 43.89	31 12.35	do	
Fairview.....	39 18.10	58 10.90	do	
Frederick:				
Brown spire, dark top.....	24 55.07	24 46.04	do	
Lutheran church—				
East spire.....	24 55.27	24 34.10	do	
West spire.....	24 55.33	24 34.78	do	
Catholic church spire.....	24 56.97	24 28.05	do	
High Knob, near Frederick.....	27 42.24	29 44.20	do	
Iron Stone Ridge.....	10 52.64	26 29.75	do	
Jones (J. N.), red barn, south gable.....	11 38.43	26 16.60	do	
Maryland Heights, near Frederick.....	20 27.69	42 59.91	do	
Offut's house, stone.....	00 25.98	11 14.80	do	
Oxley Hill.....	10 24.14	28 58.22	do	
Poolesville.....	08 16.22	25 11.64	do	
Town hall, flagstaff on south gable.....	08 38.91	25 00.75	do	
Rockville, white spire.....	04 54.41	08 43.03	do	
Scholl Hill.....	13 37.17	25 03.57	do	
Sparrow Point, 2 (1866).....	12 41.32	29 26.26	do	
Sugarloaf.....	15 44.54	23 36.88	do	
White house with wooden wing, northeast chimney.....	12 17.00	27 14.50	do	
	39°-40°	78°-79°		
	° ' "	° ' "		
Sleepy Creek Mountain.....	39 37 12.00	78 07 03.30	do	

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Do.

MARYLAND—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40° ° / "	79°-80° ° / "		
Fairfax Stone.....	39 43 18.00	79 28 56.60	C. & G. S.....	
	38°-39° ° / "	76°-77° ° / "		
Addison.....	38 49 30.91	76 58 44.43	do.....	
Annapolis.....	58 53.50	29 00.00	do.....	
Bladensburg church, east apex.....	56 26.09	56 27.31	do.....	
Brick house, cupola.....	58 42.67	57 33.84	do.....	
Hatton.....	42 58.51	59 15.01	do.....	
Hill.....	53 54.91	52 49.76	do.....	
Magruder.....	54 36.56	55 45.23	do.....	
Maryland Agricultural College.....	59 00.88	56 37.88	do.....	
Marriott.....	52 26.98	36 37.11	do.....	
Painted house, south apex.....	56 15.70	56 05.40	do.....	
Reform school.....	55 31.25	57 34.37	do.....	
Riggs, lightning rod on barn cupola.....	58 12.96	58 27.55	do.....	
Snyder, house gable.....	57 43.81	57 21.73	do.....	
Stearer, lightning rod on east chimney.....	52 27.38	55 35.09	do.....	
Wright.....	54 12.13	54 34.04	do.....	
Yellow mill, south apex.....	56 31.27	56 06.12	do.....	
Yellow roof, white cupola.....	56 46.74	56 33.85	do.....	
Yoe (Wm.), chimney.....	50 17.21	57 53.52	do.....	
	38°-39° ° / "	77°-78° ° / "		
Blair's flagstaff.....	38 59 29.55	77 01 57.16	do.....	
Briscoe, Potomac River.....	40 54.56	06 21.55	do.....	
Bryant Point, Potomac River.....	41 44.06	04 06.93	do.....	
Carroll, lightning rod.....	58 43.99	00 15.58	do.....	
Countsman, house chimney.....	57 55.55	04 58.65	do.....	
Ferry Point.....	48 20.55	01 18.39	do.....	
Potomac River.....	41 49.85	06 18.33	do.....	
Fort Washington:				
Signal.....	42 45.43	02 11.14	do.....	
Flagstaff.....	42 40.34	02 06.22	do.....	
Glymont pavilion, Potomac River.....	36 36.59	08 23.75	do.....	
Gut Landing, Potomac river.....	39 50.74	06 57.60	do.....	
Indian Head, Potomac River.....	35 57.41	11 02.20	do.....	
Marshall Point, Potomac River.....	41 09.49	06 01.28	do.....	
Mockley Point, Potomac River.....	42 07.52	02 45.41	do.....	
North Indian Head, Potomac River.....	36 24.02	10 12.79	do.....	
Oxon Hill.....	47 58.52	00 23.69	do.....	
Pamunkey Creek.....	38 04.12	06 39.74	do.....	
Port Tobacco court-house, cupola.....	30 40.77	01 14.18	do.....	
Pye's Wharf, Potomac River.....	36 41.87	08 15.33	do.....	
Rosier Bluff, Potomac River.....	46 20.32	01 51.15	do.....	
Rozier (C.), west gable of house.....	46 31.47	01 08.63	do.....	
Simmons.....	57 07.74	05 53.41	do.....	
Stevenson, Potomac River.....	40 16.03	06 54.05	do.....	
Stump Neck, Potomac River.....	33 15.66	13 29.60	do.....	
Sumner.....	57 18.77	07 30.77	do.....	
White Stone Point, Potomac River.....	40 34.37	07 48.85	do.....	

DISTRICT OF COLUMBIA.

	38°-39° ° / "	76°-77° ° / "		
Fort Dupont, flagstaff.....	38 52 22.40	76 56 26.10	C. & G. S.....	
	38°-39° ° / "	77°-78° ° / "		
Apex Washington Monument.....	38 53 22.02	77 02 07.78	do.....	
Capitol, head of statue.....	53 23.25	00 33.55	do.....	
Causten.....	55 35.29	04 23.81	do.....	
Georgetown College, observatory.....	54 29.94	04 39.05	do.....	
Insane Asylum.....	51 17.18	00 00.92	do.....	
Kengley's house, lightning rod on southeast chimney.....	55 34.56	04 26.12	do.....	
Soldiers' Home.....	56 29.85	00 40.48	do.....	
Wayland Seminary.....	55 17.33	02 08.53	do.....	
Naval Observatory, pole on dome.....	53 42.25	03 06.10	do.....	
Station east of dome.....	53 42.31	03 05.81	do.....	

VIRGINIA.

	39°-40° ° / "	77°-78° ° / "		
Distant lone tree.....	39 04 49.60	77 39 00.20	C. & G. S.....	
Leesburg.....	07 45.62	35 06.16	do.....	
Maryland Heights.....	20 27.69	42 59.91	do.....	
Maryland Heights (S.).....	20 09.97	43 09.14	do.....	

VIRGINIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40° / "	77°-78° / "		
Old Pine Tree Hill.....	39 11 31.23	77 34 20.62	C. & G. S.	
Whitehouse, chimney on northeast gable.....	11 08.90	33 19.10	do.	
	39°-40°	78°-79°		
Capon Mountain.....	39 08 33.30	78 26 06.40	do.	Bull. 122.
Lockhart.....	14 12.60	19 17.00	do.	
Locks.....	26 27.20	11 33.40	do.	
Rock Enon.....	10 39.30	23 23.90	do.	
Shockey.....	23 25.80	13 47.50	do.	
Alexandria:	38°-39°	77°-78°		
Baptist church.....	38 48 23.25	77 02 40.58	do.	
Christ church.....	48 22.64	02 52.37	do.	
High School.....	49 27.91	05 40.05	do.	
Northern coal wharf.....	48 51.11	02 11.94	do.	
Hotel tower.....	48 19.10	02 32.65	do.	
Theological Seminary, near, new spire cross.....	49 13.53	05 31.33	do.	
Market House cupola.....	48 19.57	02 36.74	do.	
Pioneer Mills chimney.....	48 05.96	02 24.75	do.	
Machine shop, brown cupola.....	48 37.15	02 44.84	do.	
St. Mary's church.....	48 06.70	02 39.27	do.	
Arlington, flagstaff in front of mansion house.....	52 52.10	04 21.10	do.	
Arlington House, east apex.....	52 52.15	04 21.89	do.	
Big Cobbler Mountain.....	50 21.00	57 11.00	do.	
Bull Run.....	52 53.58	42 12.61	do.	Do.
Cockpit Point, Potomac River.....	33 22.77	15 46.45	do.	
Culpeper Court-house, flag.....	28 25.58	59 51.27	do.	
Dangerfield.....	49 45.05	02 19.44	do.	
Ellsworth.....	48 30.02	04 09.94	do.	
Erin.....	46 48.60	05 54.50	do.	
Falls Church.....	52 52.39	10 13.15	do.	
Fredericksburg, Episcopal church spire.....	18 09.57	27 35.33	do.	
Fort Myer, flagstaff.....	53 07.75	04 39.60	do.	
Fowle, house cupola.....	47 47.26	05 48.54	do.	
Gillingham, house chimney.....	46 37.44	04 56.81	do.	
Gravelly.....	52 00.93	02 12.47	do.	
Gunston Cove, Potomac River.....	39 20.07	08 39.11	do.	
Hallowing Point, Potomac River.....	38 05.56	07 51.72	do.	
Hall, house cupola.....	54 19.89	07 44.82	do.	
Hamersley.....	45 28.66	04 09.49	do.	
Hospital, cupola.....	52 03.81	04 07.52	do.	
Hell Hole Point, Potomac River.....	46 00.70	02 29.01	do.	
Hunter.....	50 45.37	02 23.21	do.	
Hunting Creek Bridge, flag.....	47 33.46	03 24.92	do.	
Johnson, house chimney.....	47 21.77	04 18.76	do.	
Jones Point light-house (1863).....	47 25.34	02 27.12	do.	
Langley church, south gable.....	56 51.05	09 37.83	do.	
Lewinsville church, south gable.....	55 46.73	11 50.65	do.	
Lyon.....	47 26.43	04 37.79	do.	
Marcy.....	56 06.15	07 35.62	do.	
Miner Hill.....	54 23.89	09 33.61	do.	
Mount Vernon wharf signboard, Potomac River.....	42 19.47	05 19.89	do.	
Munson Hill, flag.....	51 36.30	08 44.10	do.	
Ocoquan.....	38 14.30	12 59.75	do.	
Peach Grove.....	55 12.74	13 46.77	do.	
Port Royal.....	10 24.09	11 24.63	do.	
Rocker (A.), chimney on house.....	46 43.28	05 55.65	do.	
Shipping Point, Potomac River.....	31 38.44	17 00.07	do.	
Strong.....	53 49.24	05 20.10	do.	
Square yellow house, cupola.....	49 09.03	04 41.26	do.	
Telegraph pole.....	52 39.51	02 10.07	do.	
Upton Hill.....	52 19.50	08 49.99	do.	
View Tree, near Warrenton.....	44 01.97	50 09.98	do.	
Watery Mountain.....	47 32.00	50 23.00	do.	
White house, cupola.....	51 32.32	04 00.76	do.	
Worth.....	48 52.90	05 55.56	do.	
	38°-39°	78°-79°		
Bluff Mountain.....	38 26 26.00	78 25 00.00	do.	
Clark.....	18 41.11	00 11.49	do.	Do.
Forks.....	28 44.81	24 57.47	do.	Do.
Hawksbill.....	33 19.00	23 44.00	do.	
High Knob, probably Fire Mountain, south side of Manassas Gap, Blue Ridge.....	53 12.13	06 43.84	do.	Do.
Jannau.....	06 18.53	44 38.69	do.	
Keller.....	55 08.99	23 31.30	do.	

VIRGINIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39° ° ' "	78°-79° ° ' "		
Marshall	38 46 33.82	78 12 10.28	C. & G. S.	Bull. 122.
Mary Rock	38 53.00	19 26.00	do	
McCormick Observatory, pier	01 58.06	31 20.62	do	
Peaked	23 33.97	46 12.63	do	
Peters Mountain	07 32.80	17 10.71	do	
Ragged Rock	32 06.00	18 54.00	do	
Rattlesnake	51 53.00	02 36.00	do	
Saddle Mountain	20 09.00	33 07.00	do	
Stonyman Mountain	35 52.00	22 20.00	do	
Strasburg	59 31.40	21 33.70	do	
Astronomical station	59 29.96	21 39.01	do	
Lutheran church	59 25.80	21 44.70	do	
Presbyterian church	59 12.21	21 46.37	do	
Thoroughfare Mountain, summit	24 52.00	09 25.00	do	
Turks Mountain	18 16.00	38 45.00	do	
University of Virginia, dome	02 08.31	30 13.01	do	
	38°-39°	79°-80°		
Elliott Knob	38 09 59.36	79 18 51.30	do	Do.
Flag Rock	02 33.00	46 23.00	do	
North	51 28.90	48 20.20	G. S.	Do.
North River Mountain	23 39.00	15 29.00	C. & G. S.	
Northeast Peak	09 45.00	31 19.00	do	
Shenandoah, Jack Mountain	24 22.00	30 48.00	do	
Sounding Knob, lone tree	20 47.00	35 25.00	do	
Staunton, astronomical station	08 46.54	04 19.08	do	
	37°-38°	76°-77°		
Fortress Monroe, flagstaff	37 00 05.93	76 18 32.10	do	
Tappahannock, Episcopal church spire	55 39.38	51 31.35	do	
Yerktown	16 09.64	30 28.38	do	
Petersburg:	37°-38°	77°-78°		
Court-house	37 13 50.74	77 24 13.56	do	
Catholic church	13 38.65	24 24.29	do	
Presbyterian church	13 49.03	24 19.41	do	
Methodist church	13 39.77	24 09.73	do	
Richmond:				
Baptist College tower	33 08.94	27 21.32	do	
Capitol, flag pole on east end of building	32 16.38	26 04.04	do	
Capitol, flagstaff on center of building	32 19.50	26 01.66	do	
St. Paul's church	32 23.48	26 06.82	do	
Roslyn:				
Astronomical station	14 28.33	23 50.71	do	
Petersburg transit	14 25.48	23 45.14	do	
	37°-38°	78°-79°		
Baker	37 12 09.57	78 38 39.19	G. S.	Do.
Humpback	56 55.91	53 57.24	C. & G. S.	Do.
Leigh	12 14.21	21 32.82	G. S.	Do.
Mountain southwest of Humpback	54 58.00	57 16.00	C. & G. S.	
Pilot Mountain, summit	19 30.00	58 05.00	do	
Spear	33 42.91	45 46.66	do	Do.
Sugarloaf, summit	46 57.00	49 16.00	do	
Three Ridge, summit	51 29.00	59 02.00	do	
Willis	28 22.68	27 52.90	do	
	37°-38°	79°-80°		
Amherst court-house cupola	37 35 06.30	79 03 04.30	do	
Apple Orchard, summit	31 08.00	30 41.00	do	
Bald Friar, summit	49 12.00	03 42.00	do	
Bald Knob	55 32.64	51 04.72	do	
Bald Knob, No. 1	51 00.00	55 35.00	do	
Big Level Mountain, lone tree	56 34.00	06 47.00	do	
Brushy	00 37.16	19 41.32	G. S.	Do.
Campbell court-house, jail	16 33.30	06 11.60	C. & G. S.	
Chandler Mountain, summit	20 12.00	08 12.00	do	
Cole Mountain	45 06.00	12 19.00	do	
Covington, transit	47 17.00	59 38.40	do	
Dry Mountain	06 22.90	03 47.99	G. S.	Do.
First peak northeast of Flat Top, sum- mit	28 47.00	32 44.00	C. & G. S.	
Flat Top	27 06.85	34 58.40	do	Do.
Johnson	11 32.78	21 42.56	G. S.	Do.
Johnson Mountain, summit	11 51.00	21 06.00	C. & G. S.	Do.
Long	17 27.65	05 10.24	do	
Lynchburg court-house, belfry	24 49.10	08 40.52	do	
Mount Pleasant, summit	44 27.00	10 17.00	do	
Mountain northwest of Mount Pleas- ant	44 24.00	13 25.00	do	

VIRGINIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	37°-38° ° / "	79°-80° ° / "		
No Business Mountain, summit.....	37 28 13.00	79 22 35.00	C. & G. S.....	
Northeast House Mountain.....	49 45.00	32 36.00	do.....	
Rocky Mountain.....	46 01.00	11 16.00	do.....	
Round Top, near James River.....	28 08.00	00 27.00	do.....	
Second peak northeast of Flat Top.....	29 46.00	30 55.00	do.....	
Southwest House Mountain.....	49 51.00	33 43.00	do.....	
Southwest peak of Otter, summit.....	26 00.00	36 18.00	do.....	
Smith.....	00 51.53	33 56.93	do.....	Bull. 122.
Tobacco Row.....	33 55.76	11 26.17	do.....	Do.
Tyrecana church.....	23 27.70	06 18.30	do.....	
Weavers Knob summit.....	18 14.00	49 25.00	do.....	
	37°-38° ° / "	80°-81° ° / "		
Buckhorn.....	37 17 33.55	80 58 49.30	G. S.....	Do.
Cahas.....	07 01.95	00 56.64	do.....	Do.
Peak.....	01 22.00	44 54.50	do.....	Do.
Potts.....	36 02.90	08 45.00	do.....	Do.
Salt Pond.....	21 00.80	32 15.30	do.....	Do.
Streets.....	09 46.10	11 33.90	do.....	Do.
	37°-38° ° / "	81°-82° ° / "		
Bear Wallow.....	37 14 38.60	81 44 50.20	do.....	Do.
Big Bend.....	01 37.80	10 56.40	do.....	Do.
Dial Rock.....	09 58.40	25 00.30	do.....	Do.
Morris.....	02 57.50	37 01.60	do.....	Do.
	37°-38° ° / "	82°-83° ° / "		
Big Butt.....	37 03 09.20	82 02 08.00	do.....	Do.
	36°-37° ° / "	76°-77° ° / "		
Newport News.....	36 58 00.81	76 25 21.52	do.....	
Norfolk:				
Baptist church spire.....	51 01.31	17 13.75	do.....	
City hall.....	50 50.59	17 19.95	do.....	
	36°-37° ° / "	79°-80° ° / "		
Chestnut Mountain, summit.....	36 50 54.00	79 50 46.00	do.....	
Turkey.....	50 11.19	39 28.25	do.....	Do.
White Oak.....	42 51.80	25 34.90	do.....	Do.
	36°-37° ° / "	80°-81° ° / "		
Buffalo.....	36 47 46.25	80 28 39.04	C. & G. S.....	Do.
Bull Mountain.....	41 34.97	13 29.93	do.....	
Draper.....	57 56.70	53 53.50	G. S.....	Do.
Rich.....	34 37.60	49 31.90	do.....	Do.
	36°-37° ° / "	81°-82° ° / "		
Lookout.....	36 40 04.50	81 10 03.20	do.....	Do.
Red Rock.....	55 20.00	48 22.00	do.....	Do.
Ripshin.....	50 28.30	21 37.80	do.....	Do.
Rogers.....	39 36.10	32 42.00	do.....	Do.
White Top.....	38 21.76	36 12.48	do.....	Do.
	36°-37° ° / "	82°-83° ° / "		
Clinch.....	36 49 44.50	82 04 46.00	do.....	Do.
Goodson.....	35 49.10	11 13.10	C. & G. S.....	
High Knob.....	53 33.00	37 46.10	G. S.....	Do.

WEST VIRGINIA.

	40°-41° ° / "	80°-81° ° / "		
Wheeling.....	40 04 04.00	80 43 36.60	C. & G. S.....	Rept. '84.
	39°-40° ° / "	78°-79° ° / "		
Capon.....	39 08 36.40	78 26 03.70	do.....	Bull. 122.
Locks.....	26 27.20	11 33.40	do.....	
Paddy.....	00 24.40	33 47.70	G. S.....	Do.
Sleepy Creek Mountain.....	37 12.00	07 03.00	C. & G. S.....	
	39°-40° ° / "	79°-80° ° / "		
Felton.....	39 23 21.70	79 39 07.10	G. S.....	Do.
Laurel.....	09 34.70	49 42.50	do.....	Do.
Nelson.....	27 53.30	56 06.20	do.....	Do.
	39°-40° ° / "	80°-81° ° / "		
Bear Knob.....	39 03 25.10	80 17 23.70	do.....	Do.
Cameron.....	49 46.00	34 22.50	C. & G. S.....	Rept. '84.
Clarksburg.....	16 56.00	20 22.05	do.....	Do.
Grafton.....		01 40.80	do.....	Do.
Little Bald.....	20 09.10	14 22.70	G. S.....	Bull. 122.
Sinking Creek.....	01 17.60	51 56.80	do.....	Do.
Sugar Loaf.....	02 02.75	33 49.70	do.....	Do.

WEST VIRGINIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39° ° / "	79°-80° ° / "		
Bickles.....	38 56 08.40	79 43 54.40	G. S.....	Bull. 122.
Briery Branch Mountain.....	27 45.30	14 31.30	C. & G. S.....	Do.
Green.....	53 50.70	26 36.70	G. S.....	Do.
North.....	51 28.90	48 20.20	do.....	Do.
Paddy.....	15 56.77	47 46.29	do.....	Do.
Panther Knob.....	34 07.00	10 14.90	C. & G. S.....	Do.
Panther.....	33 48.30	29 45.30	G. S.....	Do.
Rich.....	50 01.85	56 22.60	do.....	Do.
Slate Springs.....	30 35.71	11 03.66	do.....	Do.
Spruce.....	41 58 70	31 59.50	do.....	Do.
	38°-39° ° / "	80°-81° ° / "		
Big Run.....	38 47 41.90	80 15 30.15	do.....	Do.
Beech.....	06 44.63	36 18.88	do.....	Do.
Briery.....	08 39.65	20 40.40	do.....	Do.
Cedar Creek.....	54 30.30	53 52.70	do.....	Do.
Cold Knob.....	03 43.00	28 30.00	C. & G. S.....	Do.
Grassy Knob.....	03 20.00	30 14.00	do.....	Do.
High Knob.....	15 46.10	12 20.80	do.....	Do.
Locust.....	53 28.15	41 06.65	G. S.....	Do.
Job Knob.....	04 46.70	32 32.65	C. & G. S.....	Do.
Nicholas court-house belfry.....	16 50.50	52 02.50	do.....	Do.
Powell Mountain.....	13 10.00	48 37.00	do.....	Do.
Rush.....	55 25.00	32 42.60	G. S.....	Do.
Summersville.....	16 55.42	52 07.65	C. & G. S.....	Do.
	38°-39° ° / "	81°-82° ° / "		
Big Rocks.....	38 30 51.23	81 55 29.23	do.....	Rept. '84.
Charleston.....	21 07.20	38 00.00	do.....	Do.
Creed.....	24 16.82	33 35.50	do.....	Do.
Elk.....	22 20.73	36 56.57	G. S.....	Do.
Ferguson.....	20 37.96	38 14.93	C. & G. S.....	Do.
Fort Scammon.....	21 06.32	39 16.94	G. S.....	Do.
Gauley Bridge.....	09 08.70	12 57.00	C. & G. S.....	Do.
Gauley Mountains.....	10 50.00	04 27.00	do.....	Do.
Do.....	10 53.00	04 19.00	do.....	Do.
Holmes.....	25 40.87	35 34.31	do.....	Do.
Martin.....	21 25.36	36 18.14	do.....	Do.
Table Rock.....	11 18.56	36 53.13	do.....	Do.
	38°-39° ° / "	82°-83° ° / "		
Davis.....	38 21 06.31	82 21 12.15	do.....	Do.
Gebhardt.....	31 45.73	15 10.88	do.....	Do.
Oakland.....	21 46.57	38 52.68	do.....	Do.
Pigeon.....	13 44.13	03 59.86	do.....	Do.
Piney.....	26 39.66	03 28.84	do.....	Do.
Point Pleasant.....	50 28.00	08 45.30	do.....	Do.
	37°-38° ° / "	80°-81° ° / "		
Big Clear Creek Mountain.....	37 57 52.00	80 36 05.00	do.....	Do.
Big Sewall Mountain.....	54 35.40	55 42.36	do.....	Do.
Keeney.....	46 24.91	42 19.05	do.....	Do.
	37°-38° ° / "	81°-82° ° / "		
Burning Rock.....	37 41 38.00	81 41 51.60	G. S.....	Bull. 122.
Ivy.....	47 15.78	29 28.28	C. & G. S.....	Do.
Long Flat Mountain.....	53 18.00	25 46.00	do.....	Do.
Do.....	53 16.00	26 00.00	do.....	Do.
Paint Creek.....	56 50.79	18 28.82	do.....	Do.
Pilot.....	29 04.30	16 18.80	G. S.....	Do.
Sharp Peak.....	53 56.00	19 52.00	C. & G. S.....	Do.
Townsend Mountain.....	56 30.00	17 43.00	do.....	Do.

NORTH CAROLINA.

	36°-37° ° / "	80°-81° ° / "		
Lauratown.....	36 22 33.00	80 22 17.00	C. & G. S.....	
Moore.....	23 53.60	16 59.24	do.....	
Pilot Knob.....	20 24.53	28 28.19	do.....	
Warrior Mountain.....	29 13.00	51 45.00	do.....	
	36°-37° ° / "	81°-82° ° / "		
Bullhead.....	36 26 49.70	81 04 00.70	do.....	Bull. 122.
Elk Knob.....	20 40.00	42 31.00	do.....	Do.
Flat Top Mountain, Blue Ridge.....	09 44.00	40 37.00	do.....	Do.
Grandfather.....	06 41.50	48 36.90	do.....	Do.
Negro.....	24 11.60	27 48.70	do.....	Do.
Poore.....	02 47.66	09 24.24	do.....	Do.
Snake.....	19 51.10	42 28.20	do.....	Do.

NORTH CAROLINA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	35°-36° ° / "	80°-81° ° / "		
Statesville astronomical station	35 46 56.55	80 53 39.94	C. & G. S.	Bull. 122.
Statesville, Simonton College	46 57.94	53 39.05	do	
Young	44 14.49	38 51.16	do	
	35°-36°	81°-82°		
Anderson	35 33 57.32	81 05 26.80	do	Do.
Benn	33 55.06	39 37.55	do	
Hibriton	54 25.40	29 22.70	G. S.	
King	12 27.87	18 45.59	C. & G. S.	Do.
Lincolnton court-house cupola	28 16.87	15 25.67	do	Do.
Table Rock	53 27.70	52 59.00	G. S.	
Thicketty	06 48.24	46 08.21	C. & G. S.	
	35°-36°	82°-83°		
Balsam	35 22 02.10	82 59 24.70	G. S.	Do.
Big Bald	59 23.50	29 25.00	do	Do.
Mitchell	45 53.60	15 54.50	do	Do.
Pisgah	25 32.50	45 24.60	do	Do.
Sandymush	40 41.70	53 01.40	do	Do.
	35°-36°	83°-84°		
Cheowah	35 19 32.20	83 40 50.70	do	Do.
Christie Peak	23 09.40	58 10.10	do	Do.
Cowee	19 39.90	20 10.00	do	Do.
Thomas Bald	02 07.30	32 16.80	do	Do.
Thunderhead	34 06.80	42 22.50	do	Do.
Tusquittah	08 42.50	43 35.20	do	Do.
	35°-36°	84°-85°		
Haw Knob	35 18 34.20	84 01 35.20	do	Do.
Pack	09 00.90	17 10.00	do	Do.

SOUTH CAROLINA.

	35°-36° ° / "	82°-83° ° / "		
Hogback	35 10 12.25	82 17 26.34	C. & G. S.	Bull. 122.
Pinnacle	02 00.85	44 30.02	do	Do.
	34°-35°	81°-82°		
Wofford	34 57 32.31	81 56 06.73	do	Do.
Greenville:	34°-35°	82°-83°		
Baptist spire	34 50 59.78	82 24 05.08	do	Do.
Episcopal spire cross	51 02.58	23 40.79	do	
Furman University turret	50 29.15	24 11.34	do	
White tower, conical dark roof	50 55.36	23 44.33	do	
Mauldin	49 18.46	38 05.09	do	Do.
Paris	56 29.27	24 40.05	do	

GEORGIA.

	34°-35° ° / "	83°-84° ° / "		
Blood	34 44 23.24	83 56 13.22	C. & G. S.	Bull. 122.
Currahee	31 45.13	22 33.32	do	Do.
Dahlongega Agricultural College, center of roof	31 47.95	59 13.25	do	Do.
Rabun	57 55.74	17 59.26	do	
Skitt	30 20.55	43 19.83	do	
	34°-35°	84°-85°		
Cohutta	34 53 23.51	84 34 26.44	do	Do.
Grassy	29 10.58	19 53.04	do	
Pine Log	19 18.31	38 13.66	do	
Pine Mountain	10 36.61	44 41.67	do	Do.
Sawnee	14 12.12	09 38.83	do	
Sharp Top Mountain	26 21.00	30 26.00	do	
Sweat	04 01.44	27 21.54	do	Do.
	34°-35°	85°-86°		
Coosa	34 13 59.30	85 14 04.32	do	Do.
Gulf	37 32.16	28 02.49	do	
High Point	51 49.80	23 32.70	G. S.	
Johns Mountain	37 23.23	05 53.77	C. & G. S.	Do.
Mount Lavender	19 19.57	17 18.39	do	Do.
Rocky Face	49 26.30	00 28.10	G. S.	Do.

GEORGIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
Augusta:	33°-34°	81°-82°		
Astronomical station in post-office grounds.	33 28 20.60	81 57 55.40	C. & G. S.	
Post-office flagstaff	28 22.18	57 53.96	do	
Academy	33°-34°	83°-84°		
	33 57 32.66	83 59 28.51	do	
Atlanta:	33°-34°	84°-85°		
Barracks flagstaff	33 44 38.99	84 24 39.95	do	
Capitol flagstaff	45 19.32	23 29.15	do	
Carnes Mountain	59 35.76	00 50.03	do	
Kenesaw	58 34.37	34 45.74	do	
Lost Mountain	56 52.74	41 50.75	do	
Marietta:				
Court-house, brown spire	57 08.74	32 55.92	do	
National Cemetery flagstaff	57 04.15	32 30.66	do	
Middle base	54 21.74	16 37.79	do	
Northeast base	55 57.86	14 09.44	do	
Southwest base	52 51.83	18 56.41	do	
Stone Mountain	48 22.07	08 45.89	do	
	32°-33°	83°-84°		
Macon, transit near Academy	32 50 25.38	83 37 33.82	do	

FLORIDA.

Gainesville:	29°-30°	82°-83°		
Astronomic station	29 39 07.90	82 19 20.90	C. & G. S.	
Court-house rod	39 04.53	19 23.80	do	
Apalachicola, flagstaff	29°-30°	84°-85°		
	29 43 30.00	84 59 00.00	do	
Alafia	27°-28°	82°-83°		
	27 50 04.46	82 33 22.06	do	
Ball	54 23.27	24 51.27	do	
Catfish Point	50 43.47	28 06.75	do	
Fort Brooks, barracks cupola	56 33.24	27 21.57	do	
Gadsden Point	49 19.74	28 15.05	do	
Geode	53 19.96	28 43.30	do	
Island	55 24.73	27 07.72	do	
Stick	53 23.90	24 19.60	do	
Old	51 52.11	23 58.72	do	

ALABAMA.

Brandon	34°-35°	85°-86°		
	34 23 07.35	85 45 12.72	C. & G. S.	Bull. 122.
Indian	01 49.94	25 31.10	do	Do.
Weisner	01 35.63	40 27.43	do	
Athens, court-house spire	34°-35°	86°-87°		
	34 48 10.56	86 58 17.46	do	
Aurora	08 47.87	11 00.80	do	
Capshaw	49 04.47	44 17.40	do	
Gunter	34 06.83	10 20.30	do	Do.
Huntsville:				
Episcopal church spire	43 49.38	35 00.20	do	
Cupola of court-house	43 49.09	35 06.02	do	
Knob Valhermosa	30 53.15	38 36.93	do	
Madkin Mountain-tree	40 02.10	38 37.38	do	
Monte Sano, north end	44 52.10	32 03.54	do	
Mora Hill	21 32.50	15 53.56	do	
Rowe Mountain	32 22.32	31 26.59	do	
Smither	48 59.29	36 58.34	do	
Summit	12 16.36	29 05.20	do	
Wilson Mountain	25 07.51	49 02.85	do	
	34°-35°	87°-88°		
Penit	34 26 08.90	87 20 14.29	do	
	33°-34°	85°-86°		
Chehahaw	33 29 08.03	85 48 31.14	do	
	33°-34°	86°-87°		
Alpine	33 24 41.50	86 12 28.20	do	
Cahaba	44 58.80	31 24.60	do	

ALABAMA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	33°-34°	86°-87°		
	° ' "	° ' "		
Columbian	33 11 40.80	86 35 00.70	C. & G. S.	
Horn	17 51.40	04 29.70	do	
Kabatchee	13 36.80	21 38.60	do	
Laurel	23 50.20	34 53.80	do	
Warnock	59 48.67	41 51.96	do	
	32°-33°	86°-87°		
	° ' "	° ' "		
Jamison	32 55 39.20	86 38 38.40	do	Rept. '84.
Montgomery	22 45.46	17 57.29	do	Do.
Weogufka	58 38.70	21 20.20	do	Do.
Wilder	38 01.77	29 38.53	do	
	31°-32°	85°-86°		
	° ' "	° ' "		
Eufaula	31 53 40.91	85 08 18.62	do	Do.

MISSISSIPPI.

	34°-35°	90°-91°		
	° ' "	° ' "		
Adams	34 34 15.16	90 33 57.10	Miss. R. C.	Rept. '87.
Alexander	43 16.01	30 39.08	do	Do.
Anderson	08 57.54	53 14.45	do	Rept. '82.
Australia	04 01.51	53 17.63	do	Do.
Battle Island	39 02.60	28 59.63	do	Rept. '87.
Belfor	28 32.01	34 05.72	do	Rept. '82.
Bennett	50 49.74	20 06.11	do	Rept. '87.
Bowie Point	50 45.81	21 31.44	do	Do.
Bordeaux Chute	44 52.78	30 12.88	do	Do.
Brinkley	45 45.18	25 25.75	do	Do.
Buck Island	51 37.17	18 55.16	do	Do.
Chute	52 11.57	18 13.53	do	Do.
Buckshot	35 32.69	33 13.97	do	Do.
Buzzard	16 06.23	47 50.96	do	Rept. '82.
Carter	44 53.77	29 33.76	do	Rept. '87.
Cemetery	32 36.78	35 36.59	do	Rept. '82.
Clark	47 37.99	26 03.07	do	Rept. '87.
Commerce	48 55.18	26 09.27	do	Do.
Cottonwood	51 22.86	21 45.26	do	Do.
Crews	07 08.75	56 05.31	do	Rept. '82.
Delta	24 44.55	35 11.90	do	Do.
Dennis	02 15.86	54 17.38	do	Do.
Donaldson	13 49.01	51 31.98	do	Do.
Dyers	02 55.05	53 39.02	do	Do.
Frederick	40 09.42	27 33.19	do	Rept. '87.
Friar Point	22 54.28	37 53.29	do	Rept. '82.
Glendale	30 09.51	34 19.11	do	Do.
Grider	54 59.21	15 59.59	do	Rept. '87.
Gratlin	11 53.25	50 54.04	do	Rept. '82.
Harcklerode	56 29.35	14 40.59	do	Rept. '87.
Helena Island	34 41.48	32 16.20	do	Do.
Horseshoe Lake	52 41.57	18 31.27	do	Do.
Hulberton	17 07.70	47 02.72	do	Rept. '82.
Hurricane Point	02 04.31	55 07.21	do	Do.
Island 64	14 26.29	51 10.74	do	Do.
Island 66	10 58.31	49 36.36	do	Do.
Island 69	04 36.71	54 14.06	do	Do.
Jackson Point	14 10.52	52 49.62	do	Do.
John H	54 15.75	17 13.95	do	Rept. '87.
Jones	10 05.69	49 21.65	do	Rept. '82.
Lamb	55 11.65	15 13.72	do	Rept. '87.
Lucker	21 29.59	41 15.70	do	Rept. '82.
Magenta	01 54.29	56 08.87	do	Do.
Malone	08 43.89	51 55.52	do	Do.
Miller Point	22 29.43	42 40.86	do	Do.
Montezuma	26 25.63	35 04.60	do	Do.
Moon Lake	44 18.52	27 02.10	do	Rept. '87.
New Hope	08 40.33	50 57.01	do	Rept. '82.
Oasis	00 27.02	57 15.61	do	Do.
O. K	38 02.19	28 52.78	do	Rept. '87.
Overflow	19 57.67	44 05.46	do	Rept. '82.
Parker	06 35.55	55 25.05	do	Do.
Perry	42 10.17	29 33.42	do	Rept. '87.
Platon	44 22.15	30 39.14	do	Do.
Polk	50 40.81	22 46.48	do	Do.
Pushmataha	09 19.85	55 21.60	do	Rept. '82.
Quitman	11 50.49	52 03.50	do	Do.
Richardson	11 47.29	49 12.65	do	Do.
Robinsonville	09 10.79	49 09.90	do	Do.

MISSISSIPPI—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	34°-35°	90°-91°		
Robson.....	34 15 00.53	90 48 56.60	Miss. R. C	Rept. '82.
Rozzell.....	23 23.01	36 55.84	do	Do.
Russell.....	18 39.71	43 36.73	do	Do.
St. Johns.....	05 29.39	54 02.32	do	Do.
Sand Point.....	49 52.64	24 30.51	do	Rept. '87.
Sandford.....	01 04.44	56 56.25	do	Rept. '82.
Ship.....	21 43.15	38 57.13	do	Do.
Shoo-Fly.....	38 55.08	31 23.40	do	Rept. '87.
Star Landing.....	54 14.02	15 56.80	do	Do.
State Land.....	20 48.90	44 28.32	do	Rept. '82.
State Levee.....	13 55.44	50 36.04	do	Do.
State Line.....	58 50.03	16 29.40	do	Rept. '87.
Sunflower Landing.....	10 23.83	48 37.70	do	Rept. '82.
Turner.....	38 29.74	33 50.58	do	Rept. '87.
Ude.....	32 12.74	33 44.53	{ C. & G. S. }	Rept. '82.
Wilkinson.....	21 58.88	44 36.95	Miss. R. C	Do.
Williams.....	52 36.22	17 31.83	do	Rept. '87.
Yazoo Pass.....	26 16.44	33 18.66	do	Rept. '82.
	34°-35°	91°-92°		
Smith Point.....	34 00 16.86	91 02 20.43	do	Do.
	33°-34°	90°-91°		
Bee Hive.....	33 59 00.01	90 59 51.11	do	Do.
Brandenburg.....	59 04.45	58 15.48	do	Do.
Hill.....	58 44.65	59 13.45	do	Do.
Island 71.....	59 36.32	57 55.16	do	Do.
Judge E.....	57 55.68	58 26.05	do	Do.
North Base.....	59 52.48	56 44.91	do	Do.
R. Jones.....	58 27.85	59 56.60	do	Do.
South Base.....	59 11.37	57 01.86	do	Do.
	33°-34°	91°-92°		
Antler.....	33 59 20.92	91 01 23.58	do	Do.
Argyle.....	26 56.00	04 47.15	do	Do.
Ashbrook.....	28 45.81	13 08.28	do	Do.
Ashland.....	27 54.03	07 13.05	do	Do.
Bar.....	03 02.17	08 32.72	do	Rept. '87.
Bar Point.....	35 05.36	12 43.41	do	Rept. '82.
Barnes.....	27 23.83	12 12.93	do	Do.
Beulah Lake.....	48 03.19	03 40.71	do	Do.
Buck Ridge.....	39 57.49	04 30.87	do	Do.
Campbell.....	26 54.00	05 48.00	do	Do.
Carolina.....	00 37.13	09 12.36	do	Rept. '87.
Gin, northwest gable.....	00 39.45	09 05.19	do	Do.
Carter.....	26 14.45	07 06.06	do	Rept. '82.
Catfish Point.....	42 00.56	09 12.12	do	Do.
Chaff.....	08 43.77	06 02.10	do	Rept. '87.
Childers.....	38 09.99	08 33.13	do	Rept. '82.
Compton.....	16 00.59	06 51.26	do	Rept. '87.
Concordia Bayou.....	58 21.37	02 48.89	do	Rept. '82.
Content.....	39 55.07	07 05.07	do	Do.
Cottage.....	08 06.06	09 26.41	do	Rept. '87.
Craig's gin chimney.....	22 19.57	08 34.82	do	Do.
Crow Point.....	46 09.61	07 57.18	do	Rept. '82.
Cypress Tow Head.....	42 30.01	11 32.55	do	Do.
Deer Point.....	43 00.14	04 56.05	do	Do.
Delolme.....	35 54.63	10 19.27	do	Do.
Dry Chute.....	44 03.73	07 13.14	do	Do.
Duncan.....	33 05.78	12 46.47	do	Do.
Easton.....	36 38.67	07 57.83	do	Do.
Eutaw.....	38 54.64	09 36.14	do	Do.
Eutopiot.....	29 53.98	11 33.30	do	Do.
Ezell.....	52 32.69	02 53.38	do	Do.
Fisher.....	45 30.82	05 56.25	do	Do.
Floryville.....	51 07.77	01 59.48	do	Do.
Gill.....	59 07.89	03 37.70	do	Do.
Glenora.....	11 53.28	04 44.11	do	Rept. '87.
Gin chimney.....	11 12.52	04 07.66	do	Do.
Greenville:				
Episcopal church spire.....	24 40.21	03 57.30	do	Do.
Base, north end.....	24 19.23	03 58.77	do	Do.
Base, south end.....	23 18.19	04 52.44	do	Do.
Highland.....	21 14.06	08 23.76	do	Do.
Hill.....	08 11.60	07 52.24	do	Do.
Island 76.....	40 22.36	03 24.90	do	Rept. '82.
Island 77.....	41 43.10	11 57.41	do	Do.
Island 80.....	30 46.72	12 17.70	do	Do.
Island 81.....	29 50.55	12 37.55	do	Do.
Island 84.....	18 59.03	09 25.70	do	Rept. '87.
Ivy Point.....	34 16.25	13 01.40	do	Rept. '82.
Jack.....	22 22.04	06 54.04	do	Rept. '87.

MISSISSIPPI—Continued.

Name.	Latitude.		Longitude.		Authority.	Reference.
	33°-34° ° ' "		91°-92° ° ' "			
Kentucky Landing	33	39 46.90	91	05 42.98	Miss. R. C.	Rept. '82.
Kershaw		02 01.44		08 50.00	do	Rept. '87.
Leota		04 27.98		08 54.46	do	Do.
Levee		00 26.63		05 11.49	do	Do.
Meadow Point		44 53.78		08 04.88	do	Rept. '82.
Miller Bend		28 54.16		07 27.44	do	Do.
Mohawk Landing		42 51.73		03 37.01	do	Do.
Morris		29 37.74		08 20.50	do	Do.
Moss Lake		29 47.97		10 29.28	do	Do.
Mound Place		35 50.78		08 59.88	do	Do.
North base		24 19.23		03 58.77	{ C. & G. S. }	Do.
North Island 82		29 09.51		09 37.92		
Offutt		31 04.79		11 20.36	Miss. R. C.	Do.
Peak		58 47.54		00 28.14	do	Do.
Phillips		28 47.73		11 26.47	do	Do.
Pigeon Point		40 33.15		11 42.54	do	Do.
Port Anderson		32 14.79		11 59.37	do	Do.
Prentiss		46 37.58		04 15.29	do	Do.
Pride Point		49 32.50		02 45.10	do	Do.
Quarters		10 33.09		04 35.12	do	Rept. '87.
Randolph		26 23.23		08 00.57	do	
Refuge		17 31.03		08 06.68	do	Rept. '87.
Post-office chimney		17 34.38		08 06.14	do	Do.
Oilworks, cupola		17 20.80		07 55.66	do	Do.
Richardson		21 46.29		06 30.37	do	Do.
Rock Head		39 38.01		11 01.39	do	Rept. '82.
Sand Point		27 45.79		13 14.60	do	Do.
Sedge		13 08.19		05 42.62	do	Rept. '87.
Shady Side		30 07.24		09 09.88	do	Rept. '82.
Shelby		35 47.49		11 32.11	do	Do.
House, chimney		17 44.83		08 07.95	do	Rept. '87.
Singer		42 37.47		10 27.39	do	Rept. '82.
Solona		25 48.37		07 34.70	do	Do.
South Base		23 18.19		04 32.44	do	Do.
South Island 82		27 20.47		08 11.60	do	Do.
Stella, warehouse gable		09 03.04		05 24.89	do	Rept. '87.
Stokes		56 01.30		02 06.02	do	Rept. '82.
Telegraph		09 51.84		04 32.80	do	Rept. '87.
Terrene		54 01.73		03 21.28	do	Rept. '82.
Torpley		26 54.68		07 37.91	do	Do.
Victoria		57 46.70		02 26.67	do	Do.
Walnut Point		14 08.83		06 50.71	do	Rept. '87.
Warfield		20 16.41		09 33.52	do	Do.
Waxhaw		54 52.72		02 53.36	do	Rept. '82.
Wickliffe		07 44.33		10 33.42	do	Rept. '87.
Widow		59 37.32		03 47.05	do	Rept. '82.
Wildwood		45 32.29		07 22.71	do	Do.
Williams, chimney		10 57.25		04 25.98	do	Rept. '87.
Willow Point		43 19.48		05 57.40	do	Rept. '82.
Worthington		06 24.70		10 03.48	do	Rept. '87.
Balcony		05 21.84		09 15.06	do	Do.
Wrights Point, No. 2		48 56.28		03 28.82	do	Rept. '82.
Base:		32°-33°		90°-91°		
Northeast end (delta)	32	20 01.61	90	54 53.95	do	Rept. '87.
Southwest end (delta)		19 04.60		56 13.19	do	Do.
Big Bayou		16 02.11		56 34.22	do	Do.
Charley		13 42.30		58 23.56	do	Do.
Delta:					do	Do.
Court-house, flagstaff at east end		19 06.08		56 13.41		
Engine-house cupola		19 34.43		55 30.53	do	Do.
Fort		20 26.16		53 05.04	do	Do.
Hutchinson		21 09.42		57 40.78	do	Do.
Island		21 07.11		53 41.73	do	Do.
Kemp		17 25.10		56 01.84	do	Do.
King		20 35.58		56 37.18	do	Do.
King (Mrs.), house cupola		20 37.15		56 36.86	do	Do.
McGee		23 03.23		52 57.11	do	Do.
Myer		13 44.93		57 10.77	do	Do.
New house, south gable		21 12.24		57 38.86	do	Do.
New King		20 38.82		56 46.03	do	Do.
Simrall		13 00.14		58 36.07	do	Do.
Vicksburg:						
Catholic church spire		20 54.63		52 54.68	do	Do.
Court-house cupola		21 05.41		52 45.16	do	Do.
Methodist church spire		20 52.15		52 46.41	do	Do.
National cemetery flagstaff		22 25.38		52 06.45	do	Do.
Trinity church spire		20 49.18		52 49.49	do	Do.
Walnut, house chimney		18 01.69		54 32.39	do	Do.
Waddel, house, southeast chimney		21 01.60		59 19.49	do	Do.

MISSISSIPPI—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	32°-33°	90°-91°		
	° ' "	° ' "		
Warrenton	32 14 54.78	90 56 35.30	Miss. R. C.....	Rept. '87.
Yazoo	22 07.31	59 10.54	do.....	Do.
	32°-33°	91°-92°		
Albemarle	32 37 14.10	91 02 00.70	do.....	Do.
Arcadia	39 56.17	08 25.81	do.....	Do.
Benham, southeast chimney	51 27.07	07 17.06	do.....	Do.
Ben Lomond, gin chimney	47 49.62	08 35.32	do.....	Do.
Big Black	06 35.45	02 34.07	do.....	Do.
Brunswick	34 31.83	03 51.56	do.....	Do.
Burleigh	37 53.84	04 05.56	do.....	Do.
Cabin Home	35 24.87	02 13.60	do.....	Do.
Cannon	08 15.19	02 33.23	do.....	Do.
Cordell	58 23.43	07 55.05	do.....	Do.
Cotton gin	37 56.93	02 59.22	do.....	Do.
Duncan	51 09.11	06 19.57	do.....	Do.
Duncannon:				
Gin chimney	50 22.44	06 18.74	do.....	Do.
Gin ventilator	49 43.49	06 47.56	do.....	Do.
Duncansby	57 47.00	05 35.65	do.....	Do.
Eagle	29 56.43	06 29.44	do.....	Do.
Elder	05 10.25	03 21.17	do.....	Do.
Farland	45 00.11	05 35.47	do.....	Do.
Gander	07 34.12	03 36.38	do.....	Do.
Gantt	13 02.34	00 28.53	do.....	Do.
Grand Gulf Island	01 34.56	04 59.75	do.....	Do.
Green	56 07.07	04 58.54	do.....	Do.
Guy	11 43.57	01 31.81	do.....	Do.
Gynn	34 11.08	04 34.11	do.....	Do.
Hall, store, west gable	43 10.68	03 49.89	do.....	Do.
Hankinson	12 14.84	01 42.17	do.....	Do.
Hays	42 42.11	04 19.86	do.....	Do.
Hughes	00 30.27	05 57.88	do.....	Do.
Ingersoll	45 57.86	08 55.75	do.....	Do.
Levee	25 25.23	01 15.48	do.....	Do.
Lewis	58 27.35	09 13.76	do.....	Do.
House, chimney, north end	58 30.98	09 18.28	do.....	Do.
Mayerville, warehouse, northeast gable	54 00.98	03 30.48	do.....	Do.
Mayersville	54 20.22	04 08.53	do.....	Do.
McBurney	27 42.24	02 11.12	do.....	Do.
Melbourne, chimney	38 39.97	10 14.72	do.....	Do.
Montgomery, house, cupola	45 55.01	10 09.12	do.....	Do.
Morgan	08 52.55	00 54.77	do.....	Do.
No Place	37 50.46	07 59.15	do.....	Do.
North 95	44 41.02	04 48.80	do.....	Do.
Oakland, gin chimney	50 46.72	06 00.44	do.....	Do.
Poverty Point	59 15.82	12 28.57	do.....	Do.
Powell, house, southeast chimney	42 58.34	03 59.76	do.....	Do.
Pugh	25 05.92	00 22.92	do.....	Do.
Purvis	27 57.47	03 22.04	do.....	Do.
Richardson	59 37.09	10 44.61	do.....	Do.
Sand Bar	35 03.73	03 14.56	do.....	Do.
Sand Island	28 39.08	04 59.09	do.....	Do.
Sarah Island	58 19.39	11 20.24	do.....	Do.
Sartoris	48 01.67	08 55.08	do.....	Do.
Shiloh	41 49.58	05 31.27	do.....	Do.
Shipland	44 52.53	07 14.16	do.....	Do.
Shoot	38 15.41	08 37.55	do.....	Do.
Short	46 29.19	10 06.62	do.....	Do.
South 95	43 42.89	04 10.32	do.....	Do.
Stock Island	49 33.32	07 50.00	do.....	Do.
Swamp	04 39.54	04 48.38	do.....	Do.
Sycamore	04 39.46	06 26.06	do.....	Do.
Tennessee	37 50.08	06 11.00	do.....	Do.
Gin chimney	38 12.62	06 09.67	do.....	Do.
Thrasher	02 34.17	05 18.64	do.....	Do.
Walton, 2	13 14.99	01 09.70	do.....	Do.
Williams	10 28.87	00 30.25	do.....	Do.
Do	58 12.73	06 39.77	do.....	Do.
Willows	32 10.40	05 11.60	do.....	Do.
Winslow	47 08.44	09 06.65	do.....	Do.
Yucatan Bar	03 46.77	07 35.78	do.....	Do.
	31°-32°	91°-92°		
Allaway	31 15 43.24	91 34 18.92	do.....	Do.
Arnolia	33 33.14	26 41.28	do.....	Do.
Ashland	48 25.37	20 49.40	do.....	Do.
Bartlett	05 32.79	35 33.21	do.....	Do.
Bayou Pierre	57 54.70	08 56.12	do.....	Do.
Block House Hill	04 46.86	32 54.62	do.....	Do.
Bluff	38 43.85	23 11.93	do.....	Do.
Gin	01 46.63	32 50.19	do.....	Do.

MISSISSIPPI—Continued.

Name.	Latitude.			Longitude.			Authority.	Reference.
	31°-32°			91°-92°				
	°	'	"	°	'	"		
Bourbon.....	31	23	20.03	91	28	48.51	Miss. R. C.	Rept. '87.
Brenham.....		37	14.83		25	19.38	do	Do.
Bruinsburg.....		55	54.05		10	24.75	do	Do.
Buena Vista.....		49	04.48		19	38.29	do	Do.
Burnett.....		44	54.48		21	30.97	do	Do.
Butler Bluff.....		25	20.27		25	42.88	do	Do.
Carthage.....		31	59.57		27	29.54	do	Do.
Cerro Gordo.....		15	47.23		32	51.36	do	Do.
Gin stack.....		15	39.05		32	54.34	do	Do.
Clark.....		52	35.12		13	34.49	do	Do.
Clarksville, chimney.....		03	46.04		33	12.48	do	Do.
Cole Island.....		46	18.22		21	59.24	do	Do.
Corena.....		20	16.81		31	18.57	do	Do.
Gin stack.....		19	58.96		31	00.40	do	Do.
Deadman Bend, Government light.....		16	14.82		31	42.30	do	Do.
Deer Park, gin chimney.....		24	29.28		33	02.67	do	Do.
Duck Bar.....		43	02.42		23	24.65	do	Do.
Dunham Bar.....		36	06.13		26	26.96	do	Do.
Ellis Cliff.....		24	19.86		26	58.17	do	Do.
Elysian Fields.....		37	21.58		24	22.72	do	Do.
Fairchild.....		41	39.86		23	14.21	do	Do.
Faucett.....		37	40.79		27	09.59	do	Do.
Ferguson.....		19	20.55		30	59.18	do	Do.
Ford.....		27	30.24		30	16.29	do	Do.
Forman.....		50	08.46		13	48.62	do	Do.
Gaither (or Gaither, 2).....		33	01.10		26	47.59	do	Do.
Gold Bottom.....		54	34.07		12	34.26	do	Do.
Harper.....		23	24.82		29	55.30	do	Do.
Hutchin Landing, Government light.....		24	22.32		27	09.76	do	Do.
Island.....		09	21.98		36	52.88	do	Do.
Ivanhoe.....		28	31.22		30	11.91	do	Do.
Jackson.....		16	02.30		35	31.66	do	Do.
Do.....		15	58.65		36	17.59	do	Do.
Gin.....		16	04.98		36	12.52	do	Do.
Kienstra.....		13	31.23		36	23.92	do	Do.
Chimney.....		13	39.34		36	23.84	do	Do.
Lower store.....		13	17.58		36	14.82	do	Do.
Upper store.....		13	33.71		36	23.59	do	Do.
Lemley.....		30	00.35		29	38.55	do	Do.
Leonard.....		23	09.30		31	44.53	do	Do.
Loch Seven.....		10	15.20		36	45.61	do	Do.
Gin.....		10	27.06		36	29.83	do	Do.
Landing.....		10	07.72		36	49.78	do	Do.
Lookout.....		33	12.15		26	41.28	do	Do.
Do.....		33	12.15		25	10.76	do	Do.
Minor.....		31	01.78		29	02.11	do	Do.
Natchez:								
Astronomical station, transit of 1878.....		33	27.16		24	05.20	do	Do.
Catholic church spire cross.....		33	28.70		24	06.75	do	Do.
Page.....		25	40.84		28	47.63	do	Do.
Palmetto.....		21	00.15		32	00.02	do	Do.
Palo Alto (or Palo Alto, 2).....		34	46.02		25	09.80	do	Do.
Peach Grove.....		11	35.34		35	49.78	do	Do.
Point.....		16	09.55		36	25.05	do	Do.
Quitman.....		40	37.87		22	56.52	do	Do.
Riverside, chimney.....		03	18.97		30	46.10	do	Do.
Rock Hill.....		02	09.86		33	20.32	do	Do.
Rodney.....		51	14.86		12	26.35	do	Do.
St. Catharine.....		26	13.22		29	49.03	do	Do.
Sandy Point.....		53	44.86		13	43.19	do	Do.
Saunders.....		58	40.26		08	23.30	do	Do.
Service.....		47	06.89		21	59.94	do	Do.
Shields.....		25	12.65		29	47.96	do	Do.
Government light near.....		25	19.17		30	16.12	do	Do.
Spithead.....		49	23.56		18	01.30	do	Do.
Stamp.....		06	49.74		36	00.20	do	Do.
Strothers.....		18	42.59		30	54.58	do	Do.
Surgett.....		24	20.02		28	48.14	do	Do.
Tarbert.....		00	21.36		35	59.96	do	Do.
House.....		01	14.69		35	20.65	do	Do.
Stable.....		00	57.96		35	29.52	do	Do.
Tall Pine.....		26	07.65		26	05.19	do	Do.
Ville.....		18	01.73		30	53.00	do	Do.
Walton, gin chimney.....		20	23.07		32	13.48	do	Do.
Waveland.....		58	02.29		09	43.67	do	Do.
Whitehall chute.....		59	56.94		07	22.34	do	Do.
Wilson.....		43	34.95		22	58.45	do	Do.
Winn.....		17	25.64		30	59.52	do	Do.
Wood yard, house chimney.....		16	21.25		34	30.09	do	Do.

LOUISIANA.

Name.	Latitude.	Longitude.	Authority.	Reference.
	32°-33°	90°-91°		
	° / "	° / "		
Crane.....	32 20 36.30	90 57 57.10	Miss. R. C	Rept. '87.
Last.....	15 53.70	57 47.92	do	Do.
Mattingly.....	20 44.06	59 05.67	do	Do.
North Bedford.....	15 23.65	57 09.72	do	Do.
Reade.....	16 48.24	57 41.30	do	Do.
South Bedford.....	14 39.35	57 38.20	do	Do.
Williams.....	19 52.64	58 09.23	do	Do.
	32°-33°	91°-92°		
Airlie.....	32 37 55.65	91 09 30.26	do	Do.
Arlington.....	48 25.27	09 44.64	do	Do.
Ashton.....	59 40.32	13 00.20	do	Do.
Bass.....	42 53.97	04 54.08	do	Do.
Biggs.....	17 54.94	57 27.43	do	Do.
Brozowski (Dr.), house chimney.....	23 41.46	00 55.48	do	Do.
Byrne.....	27 09.22	04 25.47	do	Do.
Church spire.....	37 05.13	04 26.90	do	Do.
Concord.....	42 17.66	06 01.28	do	Do.
Coons.....	11 38.08	02 12.91	do	Do.
Cottonwood.....	54 06.62	05 10.95	do	Do.
Gin chimney.....	53 16.30	06 05.50	do	Do.
Crandall.....	01 44.04	05 35.00	do	Do.
Creswell.....	29 53.90	07 32.67	do	Do.
Deer.....	44 29.05	05 23.12	do	Do.
Diamond.....	44 21.86	06 14.23	do	Do.
Diamond Island.....	13 45.91	01 25.52	do	Do.
Disharoon.....	01 00.44	06 16.25	do	Do.
Dillon.....	28 53.47	07 01.71	do	Do.
Edgewood.....	37 08.71	07 57.08	do	Do.
Elton.....	50 01.32	08 42.65	do	Do.
Gin gable.....	50 08.90	08 59.17	do	Do.
Middle dormer window.....	49 58.44	09 07.30	do	Do.
Exern.....	43 53.73	08 27.68	do	Do.
Foster.....	36 01.69	03 14.00	do	Do.
Gin cupola.....	36 49.75	05 05.21	do	Do.
Chimney.....	36 57.97	05 08.19	do	Do.
Friedlander.....	58 54.92	13 25.38	do	Do.
Goodrich, Odd Fellows' hall, north gable.....	37 41.51	00 14.05	do	Do.
Grace's store, west gable.....	57 35.12	04 35.22	do	Do.
Graves, house, center.....	27 24.31	04 34.68	do	Do.
Goza.....	57 58.55	12 51.92	do	Do.
Hardin.....	57 50.40	08 47.54	do	Do.
Hard Times.....	02 38.27	07 14.25	do	Do.
Henderson.....	35 00.07	04 12.74	do	Do.
Gin chimney.....	34 27.93	05 05.12	do	Do.
Hollow Ridge, church spire.....	51 15.68	05 48.01	do	Do.
Homestead.....	41 38.96	08 17.27	do	Do.
Homochitto.....	52 12.27	05 26.26	do	Do.
Illawana post-office, chimney.....	38 24.19	09 02.19	do	Do.
Imboden's store, chimney.....	59 28.44	13 09.57	do	Do.
Kellogg.....	11 06.11	01 44.75	do	Do.
Knight.....	00 23.85	07 52.03	do	Do.
Lake.....	25 58.43	02 01.88	do	Do.
Lake Providence:				
Base, north end.....	48 02.49	10 26.85	do	Do.
Base, south end.....	47 12.12	10 21.35	do	Do.
Longwood.....	51 30.85	07 10.50	do	Do.
Gin chimney.....	51 52.34	08 25.90	do	Do.
Mayer.....	25 24.56	02 11.02	do	Do.
McCullough's east chimney.....	53 10.92	05 54.92	do	Do.
Miliken's Bend, church spire.....	27 30.88	06 07.63	do	Do.
Moore.....	12 31.37	03 07.41	do	Do.
Morancy.....	27 56.91	06 08.45	do	Do.
Morency's house, northeast chimney.....	28 14.48	06 25.70	do	Do.
Munce.....	06 07.52	03 44.83	do	Do.
Myers's store, south chimney.....	37 48.80	03 00.16	do	Do.
Newman.....	37 01.53	03 44.87	do	Do.
Nichols.....	21 48.94	00 09.37	do	Do.
Old River.....	09 06.86	02 16.60	do	Do.
Omega.....	31 02.06	07 28.69	do	Do.
Owen's store, chimney.....	57 40.03	11 24.89	do	Do.
Pilcher's Point.....	57 43.94	11 25.28	do	Do.
Point Lookout.....	43 36.00	04 41.53	do	Do.
Point Pleasant.....	07 53.77	04 42.77	do	Do.
Possum Point.....	57 10.85	06 40.40	do	Do.
Chimney.....	57 05.60	06 33.24	do	Do.
Raleigh.....	36 56.27	05 58.39	do	Do.
River Light.....	55 28.31	04 14.88	do	Do.
Scott.....	57 41.44	08 00.48	do	Do.
Small house, west gable.....	55 27.65	04 14.52	do	Do.
Stamboul.....	40 31.33	09 54.43	do	Do.

LOUISIANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	32°-33° ° / "	91°-92° ° / "		
Terrapin	32 32 58.21	91 06 01.35	Miss. R. C	Rept. '87.
Utz	23 03.09	00 58.41	do	Do.
Villa Vista	34 13.50	05 22.02	do	Do.
Vista	52 37.63	06 15.04	do	Do.
Gin chimney	52 11.34	06 53.72	do	Do.
Wilkinson	10 21.81	01 20.27	do	Do.
Wilson	03 46.77	07 35.78	do	Do.
Wilson's Point	56 03.14	05 20.33	do	Do.
Gin chimney	55 42.84	05 26.80	do	Do.
Wilton	39 24.57	10 23.39	do	Do.
Wyly	45 24.16	10 05.91	do	Do.
Wyly's house, east gable	45 23.44	10 26.13	do	Do.
	31°-32° ° / "	91°-92° ° / "		
Ashley	31 25 48.00	91 31 15.46	do	Do.
Gin chimney	26 11.13	31 29.94	do	Do.
(Below) Government light	24 33.86	31 05.13	do	Do.
Ballamagan	06 46.76	36 45.05	do	Do.
Black Hawk	09 23.57	37 34.04	do	Do.
Gin	09 32.43	37 50.68	do	Do.
Bondurant	56 33.20	11 03.84	do	Do.
Bougere	16 42.70	36 58.09	do	Do.
Chimney	16 44.87	36 53.99	do	Do.
Gin	16 48.41	36 53.20	do	Do.
Bullock	37 33.69	28 57.89	do	Do.
Cabin	15 32.76	38 12.69	do	Do.
Canebrake	42 00.20	24 09.95	do	Do.
Connor	37 51.44	25 35.93	do	Do.
Conti	30 14.55	30 31.04	do	Do.
Coochee	05 42.17	36 23.84	do	Do.
Crothers	28 26.02	31 44.18	do	Do.
House chimney	28 47.63	31 01.03	do	Do.
(North of) smokestack	28 43.86	31 08.80	do	Do.
(Near) ginhouse stack	28 10.96	31 21.35	do	Do.
(North of) belfry	28 42.74	31 10.38	do	Do.
CXI Bar	50 28.38	14 19.93	do	Do.
Davis	39 46.75	23 37.62	do	Do.
Down-river, dovecot	28 46.92	30 58.17	do	Do.
Esperance	25 00.35	28 47.88	do	Do.
Fairview	24 27.65	31 54.01	do	Do.
Fairview Landing, river front of new store.	19 49.76	31 51.22	do	Do.
Fritz	16 58.51	31 52.29	do	Do.
Gillespie	55 14.20	12 53.00	do	Do.
Glasscock	21 00.48	33 37.95	do	Do.
Golman	48 55.29	21 18.77	do	Do.
Goodhope	38 17.82	27 20.68	do	Do.
Hard Scrabble	58 50.95	09 02.30	do	Do.
Harpers Island	50 31.62	16 01.82	do	Do.
Hole in Wall	43 13.71	24 09.46	do	Do.
Home Place	16 19.66	33 47.93	do	Do.
Store gable	16 22.29	33 48.08	do	Do.
Kemps Landing	49 47.47	19 44.54	do	Do.
Kers Point	00 49.32	36 47.88	do	Do.
Langside :				
Chimney	01 58.56	34 44.22	do	Do.
Gin	01 46.27	34 40.29	do	Do.
L'Argent	44 28.46	23 42.49	do	Do.
Lees Point	51 06.88	13 15.05	do	Do.
Lewis	52 24.36	14 22.01	do	Do.
Lum	02 52.85	34 44.81	do	Do.
Lums Point, base :				
Southwest end, astronomical station.	02 29.11	35 17.08	do	Do.
Northeast end	03 13.73	34 26.42	do	Do.
McElroy	16 10.43	31 43.27	do	Do.
Moro	29 10.85	30 40.38	do	Do.
Natchez	31 25.99	30 20.20	do	Do.
Natchez Island, Government light	30 14.07	30 30.86	do	Do.
Obers	18 49.54	31 42.21	do	Do.
Gin chimney	18 28.02	32 26.78	do	Do.
Pecan	14 54.47	38 04.35	do	Do.
Do	24 21.73	30 30.91	do	Do.
Point Breeze	04 15.82	33 45.78	do	Do.
Pullen	09 56.98	37 33.25	do	Do.
Race course	45 59.34	22 44.55	do	Do.
Roseland	20 05.55	32 21.10	do	Do.
Gin chimney	19 27.26	31 50.03	do	Do.
Rosenthal	22 48.93	34 11.85	do	Do.
Store, river end	23 51.54	33 24.82	do	Do.
St. Joseph	54 04.73	14 20.91	do	Do.
Shamrock	40 30.20	23 44.48	do	Do.

LOUISIANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	31°-32°	91°-92°		
	° / "	° / "		
Tower.....	31 13 04.87	91 37 35.91	Miss. R. C	Rept. '87.
Tregar.....	00 15.26	37 32.29	do	Do.
Union Point.....	13 33.23	37 07.33	do	Do.
Gin.....	12 51.92	37 43.16	do	Do.
Up-river, dovecot.....	28 47.87	30 57.94	do	Do.
Vancluse.....	38 43.86	23 55.90	do	Do.
Vidalia:				
West end base.....	36 04.48	26 24.01	do	Do.
Do.....	35 01.02	26 24.01	do	Do.
East end base.....	33 42.59	25 18.00	do	Do.
Warnicott.....	27 15.89	31 15.25	do	Do.
(Near) gin chimney.....	27 09.40	31 40.96	do	Do.
Waterloo, 2.....	36 19.80	28 41.39	do	Do.
Waterproof.....	48 05.39	22 56.59	do	Do.
Watson.....	55 42.60	11 58.96	do	Do.
Whitehall.....	32 23.44	28 31.19	do	Do.
Wilds.....	16 30.13	35 07.85	do	Do.
	30°-31°	90°-91°		
Anderson.....	30 04 09.38	90 54 48.47	do	Do
Sugarhouse chimney.....	03 31.15	55 04.63	do	Do
Ashland, sugarhouse chimney.....	10 59.90	59 14.96	do	Do.
Bowden.....	09 39.47	59 40.71	do	Do
Sugarhouse chimney.....	09 36.64	59 01.07	do	Do.
Brand, sugarhouse chimney.....	06 00.47	54 05.02	do	Do.
Brulé, sugarhouse chimney.....	08 31.54	53 15.42	do	Do.
Burnside.....	09 52.19	55 55.82	do	Do.
Clark pump chimney.....	08 12.41	55 25.68	do	Do.
Cofield, sugarhouse chimney.....	07 53.23	55 58.42	do	Do.
Colomb, bagasse burner.....	04 30.60	50 46.33	do	Do.
Conway, sugarhouse chimney.....	09 10.86	54 41.79	do	Do.
Donaldson, sugarhouse chimney.....	09 03.97	55 58.42	do	Do.
Donaldsonville:				
Baptist church.....	06 11.54	59 18.79	do	Do.
Methodist church.....	06 15.28	59 25.48	do	Do.
Cross on convent.....	06 14.36	59 05.47	do	Do.
Cupola of Lemann's block.....	06 25.81	59 13.37	do	Do.
Catholic church, east tower.....	06 18.05	58 58.25	do	Do.
Base, north end.....	06 11.22	57 54.89	do	Do.
Base, south end.....	04 23.90	58 10.57	do	Do.
Dugas, sugarhouse, east chimney.....	05 55.55	58 11.01	do	Do.
Garnier, bagasse burner.....	03 23.15	52 32.56	do	Do.
Hampton.....	05 12.13	53 07.46	do	Do.
Hermitage, sugarhouse chimney.....	06 59.43	57 43.23	do	Do.
Houmas, sugarhouse chimney.....	07 27.27	54 26.23	do	Do.
Ice factory, chimney.....	06 16.71	58 30.70	do	Do.
Lauderdal, sugarhouse chimney.....	04 28.03	55 10.87	do	Do.
Leblanc:				
Bagasse burner.....	04 59.64	55 41.57	do	Do.
Sugarhouse, south chimney.....	07 46.75	59 34.41	do	Do.
Lemann.....	06 30.61	55 39.23	do	Do.
Sugarhouse chimney.....	05 49.57	59 01.67	do	Do.
Minlor, sugarhouse chimney.....	04 47.63	52 02.99	do	Do.
Nelmo.....	57 51.60	15 25.67	do	Do.
New Hope, sugarhouse chimney.....	03 24.54	53 01.37	do	Do.
Orange Grove, sugarhouse chimney.....	08 50.20	53 54.00	do	Do.
Rapidan, sugarhouse chimney.....	04 38.26	52 24.02	do	Do.
Riverton.....	08 37.55	57 21.76	do	Do.
Sugarhouse chimney.....	08 57.16	56 51.38	do	Do.
St. Ann's chapel.....	09 06.78	59 42.17	do	Do.
St. Mary's, church cross.....	05 17.96	54 17.33	do	Do.
St. Victoria, bagasse burner.....	03 15.69	54 17.09	do	Do.
Salsbury, sugarhouse chimney.....	05 19.42	55 20.60	do	Do.
Scanlon, sugarhouse chimney.....	06 12.30	54 09.49	do	Do.
Stella, sugarhouse chimney.....	05 37.09	57 29.10	do	Do.
Tureaud.....	07 35.43	54 10.85	do	Do.
Texas.....	10 26.44	58 16.78	do	Do.
Trist, sugarhouse chimney.....	04 30.21	53 01.65	do	Do.
Union, sugarhouse chimney.....	06 40.08	54 14.94	do	Do.
Wallace, sugarhouse chimney.....	05 39.89	57 58.33	do	Do.
Whitehall, sugarhouse chimney.....	04 42.21	53 37.38	do	Do.
Winchester, sugarhouse chimney.....	03 03.34	54 51.18	do	Do.
	30°-31°	91°-92°		
Acklin.....	30 56 05.52	91 38 10.81	do	Do.
Adelard Landry, sugarhouse chimney.....	10 02.25	00 48.96	do	Do.
Alexander Creek.....	45 28.23	22 22.78	do	Do.
Do.....	45 34.69	22 19.99	do	Do.
Allsworth.....	31 27.02	11 53.21	do	Do.
Anchorage.....	28 56.53	12 01.00	do	Do.
Sugarhouse chimney.....	29 00.32	12 19.57	do	Do.

LOUISIANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	30°-31°	91°-92°		
	° ' "	° ' "		
Anger	30 17 26.38	91 10 03.83	Miss. R. C.	Rept. '87.
Angola	57 31.14	39 01.92	do	Do.
Arizona, sugarhouse:				
South chimney	13 16.99	05 03.88	do	Do.
North chimney	13 17.46	05 04.02	do	Do.
Arlington	23 47.41	12 49.12	do	Do.
Ashland, flagstaff	10 23.72	00 07.84	do	Do.
Australia	20 09.88	09 36.29	do	Do.
Sugarhouse chimney	19 57.03	09 30.35	do	Do.
Avraud	05 44.77	02 27.88	do	Do.
Babina, sugarhouse chimney	29 48.08	15 36.50	do	Do.
Bagatelle, sugarhouse chimney	14 32.32	06 22.29	do	Do.
Bailey	19 22.87	11 09.83	do	Do.
Bar	30 54.46	16 25.59	do	Do.
Barrow	36 01.63	19 10.26	do	Do.
Barrow's chimney	47 39.47	31 31.60	do	Do.
Baton Rouge	26 19.00	11 26.42	do	Do.
Barracks, flagstaff	27 23.45	11 17.33	do	Do.
Astronomical and longitudinal station.	27 18.02	11 17.86	do	Do.
Barracks, astronomical azimuth station.	27 28.35	11 24.43	do	Do.
Methodist church spire	27 05.76	11 11.56	do	Do.
North end base	25 59.92	11 24.72	do	Do.
South end base	25 09.43	11 42.15	do	Do.
State penitentiary, round brick chimney.	27 04.21	10 55.59	do	Do.
State House, northwest tower	26 51.56	11 20.29	do	Do.
State University, pole on cupola	26 28.70	11 07.86	do	Do.
Batture	17 06.00	12 00.05	do	Do.
Bayou	28 28.01	11 31.79	do	Do.
Bayou Sara:				
Methodist church	46 08.34	23 40.59	do	Do.
Schoolhouse	46 04.52	23 28.22	do	Do.
Vane	45 58.17	23 35.43	do	Do.
Gin chimney	45 59.68	23 23.57	do	Do.
Colored church belfry	44 30.99	22 13.59	do	Do.
Belair	30 33.81	12 07.55	do	Do.
Sugarhouse, west chimney	30 29.34	12 25.29	do	Do.
Belle Vale	30 15.85	14 57.85	do	Do.
Belle Vale, sugarhouse chimney	30 15.11	14 50.12	do	Do.
Belle Grove	11 22.14	07 11.89	do	Do.
Sugarhouse chimney	11 06.52	06 55.59	do	Do.
Store, east gable	11 21.67	07 11.85	do	Do.
Belmont	30 40.21	14 02.45	do	Do.
Belmont, sugarhouse chimney	29 59.54	14 10.47	do	Do.
Bend	19 26.44	09 37.69	do	Do.
Bergeron	43 44.63	33 42.09	do	Do.
Big Cave	39 50.81	19 08.36	do	Do.
Bockel	44 32.88	27 12.90	do	Do.
Brulé Landing church	23 09.92	14 09.27	do	Do.
Bougeoir	47 15.11	32 24.97	do	Do.
Gin	46 42.34	35 31.13	do	Do.
Boulieu	25 19.51	12 39.53	do	Do.
Sugarhouse chimney	25 28.09	12 49.23	do	Do.
Bovard	45 06.40	23 58.07	do	Do.
House	45 01.58	23 42.73	do	Do.
Sugarhouse chimney	44 52.52	13 52.06	do	Do.
Brandon	50 59.01	31 07.40	do	Do.
Brown	36 26.05	18 08.19	do	Do.
Stable	36 30.95	17 49.82	do	Do.
Burnside, bagasse burner	08 34.94	02 02.71	do	Do.
Canty sawmill chimney	07 39.98	01 31.59	do	Do.
Cat Island	44 26.68	33 57.44	do	Do.
Celeste, sugarhouse chimney	11 29.94	06 19.47	do	Do.
Chamberlain	28 36.84	12 39.84	do	Do.
Do	32 09.03	17 30.01	do	Do.
Chataw, sugarhouse chimney	11 24.09	03 37.71	do	Do.
Chatworth	20 41.01	09 02.23	do	Do.
Sugarhouse chimney	20 53.56	08 36.12	do	Do.
Cheatham	55 19.37	36 09.66	do	Do.
Chinn	31 20.65	17 28.83	do	Do.
Church, near Evergreen	16 29.16	11 54.45	do	Do.
Cinclare	23 45.79	13 36.63	do	Do.
Stable lightning rod	23 49.57	13 52.33	do	Do.
Claiborne	11 58.70	04 12.19	do	Do.
Sugarhouse chimney	43 47.36	27 36.87	do	Do.
Do	11 50.01	04 33.92	do	Do.
Clark, sugarhouse chimney	33 14.51	17 28.76	do	Do.
Clarke	33 57.99	15 42.41	do	Do.
Clement	15 59.78	09 47.90	do	Do.

LOUISIANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	30°-31°	91°-92°		
Coal yard	30 31 05.84	91 14 09.49	Miss. R. C	Rept. '87.
House	55 00.87	34 01.68	do	Do.
Colwell	30 33.08	16 28.16	do	Do.
Sugarhouse chimney	30 24.38	16 17.06	do	Do.
Como	54 30.03	31 53.17	do	Do.
Conrad	18 47.15	11 14.38	do	Do.
Cottage	21 15.31	13 24.29	do	Do.
Sugarhouse chimney	21 26.96	13 37.93	do	Do.
Cotton	49 07.71	31 51.78	do	Do.
Coulon	44 51.94	25 04.25	do	Do.
Crescent	05 17.78	00 20.80	do	Do.
Sugarhouse chimney	04 39.01	01 17.43	do	Do.
Cuba, sugarhouse chimney	11 04.48	02 05.35	do	Do.
Cut Off	55 32.44	37 10.20	do	Do.
Depot, astronomical station	45 52.73	23 18.45	do	Do.
Deserted Cabin	52 40.63	31 14.78	do	Do.
Devall	32 52.58	15 53.62	do	Do.
Dichary	08 23.93	00 31.02	do	Do.
Sugarhouse chimney	08 21.56	00 11.37	do	Do.
Douglas	51 19.84	31 42.77	do	Do.
Doyle's chimney	45 21.07	22 12.68	do	Do.
Duncan	22 07.16	13 55.90	do	Do.
Dupuy	14 42.93	06 42.57	do	Do.
Eastman	58 28.86	38 37.93	do	Do.
Elevator	40 19.62	17 21.84	do	Do.
Evan Hall	07 31.81	02 36.88	do	Do.
Sawmill chimney	07 18.64	02 08.51	do	Do.
Sugarhouse chimney	07 02.28	02 52.87	do	Do.
Evergreen	16 28.82	11 56.98	do	Do.
Fancy Point	40 33.13	19 53.08	do	Do.
Fairot	29 56.62	13 16.57	do	Do.
Ferry	27 10.10	12 01.52	do	Do.
Fisher	44 37.29	31 39.82	do	Do.
Fischer's Landing	47 18.95	34 54.17	do	Do.
Forlorn Hope, sugarhouse chimney	17 24.21	09 25.67	do	Do.
Fort	44 46.30	21 44.36	do	Do.
Frances Gomez, sugarhouse chimney	05 33.27	01 31.75	do	Do.
Gay	16 41.86	12 44.49	do	Do.
Gay's house, lightning rod	26 57.53	12 05.83	do	Do.
Gem, sugarhouse chimney	08 42.08	00 02.69	do	Do.
Glennon	35 16.58	18 48.99	do	Do.
Sugarhouse chimney	34 52.92	19 06.32	do	Do.
Golden Ridge	15 54.89	07 40.50	do	Do.
Gravel	35 30.46	18 06.96	do	Do.
Greenfield, sugarhouse chimney	16 01.09	10 15.40	do	Do.
Hard Times	31 13.33	12 32.88	do	Do.
Sugarhouse chimney	13 15.64	05 13.91	do	Do.
Hereford, sugarhouse chimney	34 16.74	18 27.54	do	Do.
Hicky	20 45.69	14 33.64	do	Do.
Hill	28 26.16	12 00.77	do	Do.
Hog Point	55 36.15	38 42.01	do	Do.
Hog Point Landing	55 50.73	39 00.81	do	Do.
Hollywood, bagasse chimney	21 15.40	10 38.58	do	Do.
Home Place, sugarhouse chimney	09 26.63	00 42.41	do	Do.
Hopkins	43 50.92	30 04.69	do	Do.
Horner	31 22.65	13 21.13	do	Do.
Indian Camp, sugarhouse chimney	11 52.54	07 29.41	do	Do.
Iron chimney	16 04.30	10 40.64	do	Do.
Keller	47 52.99	31 21.61	do	Do.
Kelson	36 45.92	18 44.59	do	Do.
Sugarhouse chimney	37 24.48	18 53.07	do	Do.
Kingsbury	57 27.87	39 45.24	do	Do.
Store	57 24.57	39 46.00	do	Do.
Knox	29 17.00	11 35.75	do	Do.
Labry	42 43.71	21 14.69	do	Do.
Last	34 42.00	16 00.57	do	Do.
Leblanc	07 15.14	00 14.10	do	Do.
Lebret	42 50.09	20 43.24	do	Do.
Leonard	45 12.47	34 55.45	do	Do.
Lepierre, sugarhouse chimney	20 28.83	13 11.89	do	Do.
Letherman	54 35.69	33 05.17	do	Do.
Levert	15 52.79	07 23.58	do	Do.
Lieux sawmill	41 31.87	21 05.07	do	Do.
Light-house:				
(Near Chatworth)	20 24.40	08 36.98	do	Do.
(Near Hicky, removed April, 1880)	20 56.19	14 35.79	do	Do.
(Near Woodland)	18 26.28	13 55.02	do	Do.
Limerick	26 09.88	12 12.40	do	Do.
Sugarhouse, north chimney	26 07.17	12 21.85	do	Do.
Sugarhouse, south chimney	26 06.64	12 21.91	do	Do.
Lobdell	34 35.90	17 52.48	do	Do.

LOUISIANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	30°-31°	91°-92°		
	° ' "	° ' "		
Long Wood	30 39 57.43	91 18 28.22	Miss. R. C.	Rept. '87.
Lopez	21 02.41	11 36.36	do	Do.
McCallum's Point	44 10.05	35 46.40	do	Do.
McManner:				
Sawmill chimney	07 44.22	02 11.55	do	Do.
Sugarhouse chimney	07 42.49	02 40.30	do	Do.
McWilliams house lightning rod	19 08.34	12 33.79	do	Do.
Magee	45 50.00	24 09.77	do	Do.
Manchac	18 59.06	08 51.13	do	Do.
Sugarhouse chimney	18 42.30	08 23.10	do	Do.
Martin	20 21.73	12 11.45	do	Do.
Maryland	12 33.13	06 15.49	do	Do.
Medora	19 07.26	12 35.95	do	Do.
Miles chimney	55 16.66	38 21.88	do	Do.
Miles Point	55 12.25	37 29.08	do	Do.
Missouri	22 19.99	14 33.54	do	Do.
Modeste, sugarhouse chimney	10 23.42	01 07.85	do	Do.
Monte Sano	30 38.62	11 35.42	do	Do.
Monticello	15 38.53	06 25.64	do	Do.
Morganza	44 11.35	34 46.12	do	Do.
Morrison, sugarhouse chimney	43 28.40	31 37.67	do	Do.
Mount Houmas, sugarhouse chimney	12 11.88	00 41.51	do	Do.
Mount Houmas house, south gable	11 44.14	01 12.85	do	Do.
Mount Pleasant	38 14.70	17 52.34	do	Do.
Stable	38 33.40	17 30.79	do	Do.
Landing	38 32.16	17 45.62	do	Do.
Gin	38 33.64	17 38.13	do	Do.
Mulberry Grove, sugarhouse chimney	21 15.55	09 54.95	do	Do.
Neal	46 33.43	34 41.99	do	Do.
Negro church or school	35 14.20	18 59.80	do	Do.
New House	47 21.04	31 47.90	do	Do.
New Texas	46 54.01	35 13.49	do	Do.
Gin chimney	46 13.00	35 34.22	do	Do.
Chimney	46 10.77	35 38.08	do	Do.
Flagstaff	46 28.15	35 28.61	do	Do.
Quitman statue	46 26.20	35 25.66	do	Do.
Nina, sugarhouse chimney	40 57.64	21 04.74	do	Do.
Oaks, sugarhouse, south chimney	26 50.13	12 19.40	do	Do.
Ober gin	46 28.13	35 35.80	do	Do.
Ohlivailla, sugarhouse chimney	10 41.37	07 35.26	do	Do.
Old Hickory, sugarhouse chimney	11 53.94	05 22.71	do	Do.
Old River	54 48.88	36 29.97	do	Do.
Old River House	54 48.63	36 36.54	do	Do.
One Hundred Mile, sugarhouse chimney	14 28.77	06 36.03	do	Do.
Ophelia	13 04.60	08 08.43	do	Do.
Palo Alto	14 10.26	08 04.73	do	Do.
Sugarhouse chimney	05 37.30	02 23.93	do	Do.
Pederre overseer's house	43 43.58	28 53.75	do	Do.
Pelico, sugarhouse chimney	09 07.75	01 19.13	do	Do.
Plaquemine	17 17.12	13 36.61	do	Do.
Catholic church spire	17 31.97	14 02.85	do	Do.
Point	31 24.19	16 50.51	do	Do.
Do	18 05.54	13 24.99	do	Do.
Point Coupee base:				
Southeast end	44 49.20	22 35.00	do	Do.
Do	44 55.65	22 32.22	do	Do.
Northwest end	45 03.63	23 24.03	do	Do.
Point Pleasant	15 22.95	06 51.73	do	Do.
Pole	27 17.86	11 23.43	do	Do.
Poplar	29 21.20	13 52.09	do	Do.
Poplar Grove, sugarhouse chimney	29 26.77	12 24.08	do	Do.
Porche	43 10.87	21 21.56	do	Do.
Port Hudson	40 27.00	17 54.10	do	Do.
Sawmill	40 36.66	17 20.56	do	Do.
Port Manoir	39 50.66	17 58.96	do	Do.
Powell	44 05.82	21 21.56	do	Do.
Proctor chimney	54 47.88	36 07.07	do	Do.
Profit Island	34 56.93	17 50.14	do	Do.
Raccourci Point	47 58.12	32 00.93	do	Do.
Ralston	35 24.70	27 06.86	do	Do.
Randolph, sugarhouse chimney	35 24.28	19 16.57	do	Do.
Red River	58 50.28	39 08.54	do	Do.
School	58 11.06	39 58.86	do	Do.
Light	58 35.32	39 26.16	do	Do.
Warehouse	58 00.20	39 50.16	do	Do.
Red Store	44 03.49	27 00.30	do	Do.
Rescue	12 58.45	04 35.72	do	Do.
Sugarhouse chimney	13 10.88	04 28.91	do	Do.
Revenue, sugarhouse chimney	13 32.40	03 58.13	do	Do.
Rews Ditch	47 41.24	33 44.22	do	Do.

LOUISIANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	30°-31° ° / '	91°-92° ° / '		
Reynaud	30 34 17.51	91 16 05.26	Miss. R. C	Rept. '87.
Rifle Point	37 58.53	24 58.77	do	Do.
Riley	34 57.47	16 49.10	do	Do.
Riverlight	12 57.41	04 47.57	do	Do.
Rivers	23 39.08	33 19.45	do	Do.
Gin chimney	24 30.72	33 36.30	do	Do.
R. O. Landry, sugarhouse chimney	08 56.24	01 36.25	do	Do.
Rome	06 46.50	00 56.81	do	Do.
Rouzan, sugarhouse chimney	20 30.97	08 05.19	do	Do.
Rowe	55 30.09	34 04.47	do	Do.
St. Bernard	55 03.43	34 09.18	do	Do.
St. Francis church	44 52.08	24 56.27	do	Do.
St. Francisville:				
Catholic church cross	46 26.82	23 25.55	do	Do.
Episcopal church	46 32.40	23 14.55	do	Do.
St. Gabriel church	15 19.86	06 24.33	do	Do.
St. Martin	09 15.71	02 03.15	do	Do.
St. Maurice	43 44.87	28 42.96	do	Do.
St. Peter's and St. Paul's church	30 16.74	15 11.93	do	Do.
Sandy Point	40 13.41	19 16.45	do	Do.
School	14 53.98	07 14.93	do	Do.
Schultz	47 12.33	33 36.52	do	Do.
Shaw	47 37.58	32 38.51	do	Do.
Shelton	41 32.96	20 30.05	do	Do.
Slaughter	39 56.26	17 23.56	do	Do.
Small house, chimney	18 48.66	09 19.62	do	Do.
Smith chimney	55 52.05	39 03.62	do	Do.
Smithland gin	55 44.87	39 06.17	do	Do.
Solitude	34 29.05	16 50.45	do	Do.
Southwood	13 26.81	03 04.90	do	Do.
Sugarhouse chimney	13 19.56	02 54.08	do	Do.
Souvenir, sugarhouse chimney	06 45.94	01 51.94	do	Do.
Springfield	33 54.83	15 02.51	do	Do.
Star, sugarhouse chimney	14 49.26	06 25.28	do	Do.
Stevenson	52 32.03	31 41.39	do	Do.
Stewart, sugarhouse chimney	43 43.50	31 55.75	do	Do.
Stump	53 59.06	32 25.84	do	Do.
Swamp	30 56.46	14 56.65	do	Do.
Taylor	43 39.89	21 33.21	do	Do.
Sugarhouse chimney	44 04.34	22 02.19	do	Do.
Thomas	32 31.95	15 36.48	do	Do.
Thompson	44 31.96	22 04.28	do	Do.
Tonliet, sugarhouse chimney	20 25.26	11 44.48	do	Do.
Tregars chimney	59 27.59	38 40.74	do	Do.
Tunica Island	49 18.49	31 14.57	do	Do.
Tunica Landing	55 15.19	33 01.72	do	Do.
Van Winkle	40 02.06	20 23.82	do	Do.
Van Winkle B. B.	39 20.57	20 43.16	do	Do.
Ventress	16 50.81	08 24.25	do	Do.
Vignes	45 10.06	35 26.43	do	Do.
Sugarhouse chimney	42 25.00	21 25.10	do	Do.
Viola	31 02.33	13 10.14	do	Do.
Vohn's, sugarhouse chimney	24 20.19	13 35.33	do	Do.
Von Pool	29 25.04	12 02.07	do	Do.
Wade	52 39.77	31 13.56	do	Do.
House	52 57.11	31 19.58	do	Do.
Shed	52 27.49	31 07.38	do	Do.
Waterloo	41 18.99	20 57.75	do	Do.
Church	40 48.87	21 40.44	do	Do.
Sugarhouse chimney	12 42.28	01 19.16	do	Do.
Store	41 50.56	21 08.12	do	Do.
Wick's, sugarhouse chimney	25 32.16	11 03.26	do	Do.
Wild Wood	38 18.60	18 21.21	do	Do.
Sawmill	38 15.63	18 25.75	do	Do.
Willow Bar	45 20.07	25 21.34	do	Do.
Willow Glen	16 14.30	07 02.23	do	Do.
Winter	32 04.12	16 30.43	do	Do.
Sugarhouse chimney	36 43.60	19 02.95	do	Do.
Woodland	18 25.28	13 58.40	do	Do.
Woods	20 24.97	10 49.80	do	Do.
Woodstock, sugarhouse chimney	10 28.12	01 20.51	do	Do.
Woodyard	44 12.22	28 47.20	do	Do.
Yale, sugarhouse chimney	10 46.66	01 47.86	do	Do.
	29°-30° ° / '	90°-91° ° / '		
Caillon	29 05 41.59	90 31 41.30	C. & G. S.	
Calumet	06 12.59	20 58.79	do	
George	06 33.82	15 09.27	do	
James	06 22.18	24 11.10	do	
Tape	08 43.01	31 33.49	do	
Terrebonne	06 30.08	28 19.86	do	
Timballier light-house (1887)	03 06.01	20 57.38	do	

TEXAS.

Name.	Latitude.	Longitude.	Authority.	Reference.
	33°-34°	99°-100°		
Haskell.....	33 09 31.57	99 43 54.96	G. S.	Bull. 122.
Swinson.....	00 50.10	59 34.60	do	Do.
	3°-3-34°	100°-101°		
Lem.....	33 03 59.08	100 26 11.37	do	Do.
	32°-33°	96°-97°		
Branden.....	32 40 47.93	96 54 56.48	do	Do.
Caruth.....	51 44.85	46 23.42	do	Do.
Ross.....	47 19.39	39 49.01	do	Do.
	32°-33°	97°-98°		
Boons.....	32 55 12.22	97 16 38.17	do	Do.
Bosque.....	07 32.51	46 44.20	do	Do.
Box.....	15 11.92	16 57.74	do	Do.
Boyles.....	39 48.57	43 43.81	do	Do.
Caddo Peak.....	29 00.39	24 27.05	do	Do.
Centipede.....	36 32.51	12 07.25	do	Do.
Comanche.....	22 38.19	47 59.00	do	Do.
Duffau.....	09 36.80	59 24.87	do	Do.
Estelle.....	53 44.08	06 34.46	do	Do.
Gatewood.....	06 04.59	40 45.05	do	Do.
Gathings.....	10 16.44	14 28.25	do	Do.
Harrison.....	48 18.01	53 38.28	do	Do.
Hart.....	19 09.35	32 52.02	do	Do.
Hix.....	03 43.68	20 01.32	do	Do.
Knisely.....	01 16.18	42 49.30	do	Do.
Levy.....	53 50.54	42 36.74	do	Do.
McIver.....	09 10.70	51 03.25	do	Do.
Myers.....	20 07.12	36 41.29	do	Do.
O'Neal.....	43 17.38	07 59.43	do	Do.
Post Oak.....	41 45.52	16 30.30	do	Do.
Rattlesnake.....	48 05.84	38 32.84	do	Do.
Shipdown.....	56 44.38	54 39.80	do	Do.
Turner.....	09 58.97	05 58.61	do	Do.
Widow.....	26 17.43	01 24.99	do	Do.
	32°-33°	98°-99°		
Black Jack.....	32 57 15.29	98 51 18.72	do	Do.
Bluff.....	55 33.49	18 02.09	do	Do.
Brazos.....	54 29.77	30 09.01	do	Do.
Breckenridge.....	48 03.95	49 51.89	do	Do.
Cisco.....	22 04.81	56 19.87	do	Do.
Astronomical pier.....	23 31.45	53 55.56	do	Do.
Cleveland.....	39 12.25	41 26.88	do	Do.
Corbin.....	43 47.07	17 52.54	do	Do.
Double Mountain.....	35 06.69	55 05.25	do	Do.
Guthrie.....	19 19.02	22 38.75	do	Do.
Ioni.....	41 51.43	27 25.52	do	Do.
Jameson.....	17 40.67	29 27.79	do	Do.
Kyle.....	49 24.60	19 08.23	do	Do.
Lost.....	02 41.87	54 53.40	do	Do.
McClenny.....	27 09.30	11 22.81	do	Do.
McDaniel.....	17 09.56	49 47.97	do	Do.
Murphy.....	18 32.64	13 19.65	do	Do.
Price.....	12 58.07	21 36.91	do	Do.
Thurman.....	40 59.96	35 53.02	do	Do.
	32°-33°	99°-100°		
Abilene.....	32 26 51.39	99 44 39.80	do	Do.
Anson.....	45 29.54	53 43.33	do	Do.
Buffalo.....	19 07.47	52 08.98	do	Do.
Cobb.....	36 00.71	29 11.90	do	Do.
Cottonwood.....	13 41.10	09 10.76	do	Do.
Eagle.....	10 21.65	49 45.86	do	Do.
East base.....	39 17.06	11 56.21	do	Do.
Flat Top.....	51 20.75	05 39.68	do	Do.
Hitson.....	28 42.69	18 50.74	do	Do.
Irving.....	59 33.38	10 19.31	do	Do.
Jones.....	12 01.65	56 43.69	do	Do.
Knoll.....	44 20.15	18 48.62	do	Do.
Lidel.....	15 26.24	40 48.20	do	Do.
Monroe.....	50 51.24	24 09.62	do	Do.
New.....	47 28.06	12 14.84	do	Do.
Sand.....	42 15.90	52 40.50	do	Do.
Stewart.....	42 44.26	25 11.16	do	Do.
Table Gap.....	01 23.63	46 54.52	do	Do.
Tarantula.....	58 20.32	34 21.57	do	Do.
Wesly.....	27 43.99	01 26.22	do	Do.
	32°-33°	100°-101°		
Ash.....	32 43 49.63	100 06 19.79	do	Do.
Austin.....	00 40.36	27 34.69	do	Do.
Bitter.....	19 55.64	16 37.65	do	Do.

TEXAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	32°-33°	100°-101°		
Fence.....	32 26 40.88	100 14 30.05	G. S.	Bull. 122.
Flint.....	07 48.41	02 41.19	do	Do.
Goat.....	00 56.09	36 27.63	do	Do.
Rusticus.....	12 39.04	15 12.15	do	Do.
Sweetwater.....	28 31.23	24 24.09	do	Do.
Sykes.....	17 29.43	23 42.72	do	Do.
Wasp.....	34 11.27	26 36.03	do	Do.
Jacksonville:	31°-32°	95°-96°		
Astronomical station.....	31 57 49.70	95 16 16.80	C. & G. S.	
Methodist spire.....	57 37.91	16 20.03	do	
Presbyterian spire.....	57 40.47	16 07.57	do	
	31°-32°	97°-98°		
Adams.....	31 53 31.39	97 43 23.58	G. S.	Do.
Doty.....	56 23.59	51 41.64	do	Do.
Frazier.....	59 31.22	04 44.75	do	Do.
Ghent.....	19 18.01	19 08.22	do	Do.
Kellum.....	48 45.07	27 16.61	do	Do.
Kendrick.....	29 37.62	14 18.50	do	Do.
Lynch.....	12 29.66	20 19.08	do	Do.
Mount Taylor.....	04 54.52	57 45.14	do	Do.
Nick.....	43 19.10	28 53.50	do	Do.
Simpson.....	36 08.95	29 26.69	do	Do.
West.....	48 22.07	05 47.56	do	Do.
Wind Mill.....	26 01.94	30 02.20	do	Do.
	31°-32°	98°-99°		
Station D.....	31 04 09.80	98 39 45.80	do	Do.
Thompson.....	55 13.70	53 40.90	do	Do.
Waters Mountain.....	05 31.20	20 27.60	do	Do.
	31°-32°	99°-100°		
Ballinger.....	31 44 24.92	99 56 40.24	do	Do.
Bones.....	00 31.31	39 17.61	do	Do.
Bradley.....	48 43.66	41 25.84	do	Do.
Live Oak.....	17 15.82	39 28.17	do	Do.
Maddox.....	04 19.66	46 12.14	do	Do.
Molloy.....	17 20.35	51 21.63	do	Do.
Mustang.....	02 34.52	56 00.35	do	Do.
Plateau.....	37 41.66	55 39.75	do	Do.
Rough.....	55 20.70	36 44.93	do	Do.
	31°-32°	100°-101°		
Ashurst.....	31 48 42.42	100 40 01.30	do	Do.
Bolt.....	08 19.11	50 47.98	do	Do.
Cedar.....	45 18.85	19 36.94	do	Do.
Concho.....	47 19.71	49 10.33	do	Do.
Dove.....	11 49.51	37 38.05	do	Do.
Dry.....	34 21.54	53 50.27	do	Do.
Edith.....	53 37.40	39 52.57	do	Do.
Flower.....	05 35.80	05 09.43	do	Do.
Funk.....	31 20.22	48 47.32	do	Do.
Gunny.....	30 03.10	38 58.62	do	Do.
Hayrick.....	59 29.96	20 48.70	do	Do.
Keith.....	11 54.22	13 44.55	do	Do.
Lake.....	52 13.50	46 01.94	do	Do.
Lipan.....	14 17.14	19 20.68	do	Do.
Lopez.....	20 40.27	51 04.44	do	Do.
Napp.....	46 37.47	43 00.86	do	Do.
Robert Lee.....	53 39.29	29 03.87	do	Do.
San Angelo.....	27 51.31	26 16.06	do	Do.
Water Valley.....	37 47.51	45 15.85	do	Do.
	31°-32°	104°-105°		
Diablo.....	31 11 50.54	104 54 52.40	do	Do.
El Capitan.....	53 26.38	51 39.69	do	Do.
	31°-32°	105°-106°		
Arispe.....	31 09 11.33	105 17 00.09	do	Bull. 70.
Cerro Alto.....	56 39.90	58 15.05	do	Bull. 122.
East base.....	04 54.70	09 32.38	do	Bull. 70.
Mesa.....	07 16.43	09 12.38	do	Do.
Quitman.....	08 56.68	29 48.26	do	Bull. 122.
Salt.....	34 40.74	08 51.69	do	Do.
Sierra Blanca.....	15 05.34	26 09.64	do	Do.
Astronomical pier.....	10 27.64	21 24.96	do	Bull. 70.
Taff.....	12 28.86	17 25.68	do	Do.
West base.....	06 35.65	13 03.41	do	Do.
Yucca.....	06 40.08	20 51.72	do	Do.
	31°-32°	106°-107°		
El Paso, Fort Bliss, astronomical monument.....	31 45 31.00	106 29 05.00	Wheeler	Rept. '79.
Graveyard Hill.....	45 52.00	29 41.00	do	Do.

TEXAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	31°-32°	106°-107°		
North Franklin.....	31 54 07.24	106 29 35.83	G. S.	Bull. 122.
South Franklin Mountain.....	48 15.00	28 47.00	Wheeler	Rept. '79.
	30°-31°	97°-98°		
Bald Knob.....	30 20 05.87	97 35 23.54	G. S.	Bull. 122.
Bastrop Hill.....	07 38.30	18 35.30	do	Do.
Beaver Hill.....	42 25.88	33 52.51	do	Do.
Cedar Hill.....	11 21.78	57 08.14	do	Do.
Corn Hill.....	47 16.37	37 15.18	do	Do.
Haley Ratlif.....	53 41.15	43 52.40	do	Do.
Haystack.....	35 02.56	41 00.60	do	Do.
Hill.....	11 48.34	36 32.72	do	Do.
Land office.....	16 19.93	44 13.02	do	Do.
Lone Tree, 1.....	19 17.54	48 29.95	do	Do.
Morrison Ridge.....	45 19.74	50 42.37	do	Do.
Pilot Knob.....	09 29.83	42 20.80	do	Do.
P. K. N.....	27 15.59	42 07.64	do	Do.
Prairie, 2.....	51 14.17	57 33.71	do	Do.
Texas Hill.....	08 35.36	32 09.60	do	Do.
West base.....	12 15.17	42 56.82	do	Do.
Yegua Knob.....	20 31.99	11 20.30	do	Do.
	30°-31°	98°-99°		
Bachelor Peak.....	30 59 39.33	98 05 42.00	do	Do.
Bell Mountain.....	26 47.45	43 00.12	do	Do.
Bontlinghouse.....	33 37.40	05 19.93	do	Do.
Bunker Hill.....	56 22.45	17 33.60	do	Do.
House Mountain.....	35 33.74	55 08.09	do	Do.
Lone Man.....	04 35.92	05 11.12	do	Do.
Long Mountain.....	53 52.98	20 09.43	do	Do.
Riley Mountain.....	40 07.12	36 18.32	do	Do.
Roper Hill.....	46 17.52	16 11.78	do	Do.
Round.....	27 11.52	21 57.88	do	Do.
Shingle.....	18 12.80	05 38.58	do	Do.
Shovel.....	26 30.19	14 46.10	do	Do.
Station B.....	54 38.67	52 43.77	do	Do.
Station E.....	13 40.14	26 32.70	do	Do.
	30°-31°	100°-101°		
Black.....	30 49 00.64	100 18 24.99	do	Do.
Burbank.....	47 08.23	04 54.00	do	Do.
Cactus.....	48 55.20	55 40.13	do	Do.
Decker.....	39 40.12	07 33.92	do	Do.
Deer.....	43 24.69	58 22.66	do	Do.
Fawn.....	18 24.18	17 28.67	do	Do.
Fire.....	05 08.67	15 50.98	do	Do.
First.....	54 07.25	05 59.39	do	Do.
Fort McKavett.....	49 44.07	06 30.69	do	Do.
Harris.....	10 05.90	10 47.16	do	Do.
Jasper.....	00 26.69	14 16.28	do	Do.
Marshall.....	21 42.64	12 06.09	do	Do.
Patterson.....	25 35.59	02 23.80	do	Do.
Peak.....	45 21.64	41 42.07	do	Do.
Piner.....	32 52.64	12 28.28	do	Do.
Riley.....	38 41.06	14 59.28	do	Do.
Runge.....	51 35.49	46 26.47	do	Do.
Sumac.....	43 14.84	48 53.68	do	Do.
Wallace.....	16 00.33	27 18.40	do	Do.
Wentworth.....	26 34.59	20 38.55	do	Do.
Wolf.....	03 41.97	21 55.55	do	Do.
	30°-31°	103°-104°		
Mount Ord.....	30 14 23.04	103 30 56.05	do	Do.
Star.....	46 36.32	47 40.23	do	Do.
	30°-31°	104°-105°		
Baldy.....	30 38 05.85	104 10 26.27	do	Do.
Chispa.....	48 07.73	42 36.10	do	Do.
Meridian signal.....	59 51.56	59 56.49	do	Bull. 70.
Newman.....	59 58.36	04 45.31	do	Bull. 122.
Vieja.....	27 07.33	40 42.70	do	Do.
	30°-31°	105°-106°		
Eagle.....	30 55 14.41	105 05 08.13	do	Do.
	29°-30°	98°-99°		
Twin Sisters.....	29 58 48.70	98 25 40.50	do	Do.
	29°-30°	100°-101°		
Anacacho.....	29 11 12.82	100 17 10.78	do	Do.
Cline.....	12 07.36	08 28.00	do	Do.
Ellis.....	46 21.43	28 11.65	do	Do.
Fort Clark.....	18 27.65	25 08.14	do	Do.
Goode.....	44 56.80	17 24.28	do	Do.
Holliday.....	54 15.25	19 01.08	do	Do.

TEXAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	29°-30° ° / "	100°-101° ° / "		
Las Moras.....	29 21 31.62	100 23 13.43	G. S.....	Bull. 122.
Monte.....	33 46.53	12 02.84	do.....	Do.
Nueces.....	37 33.84	19 51.26	do.....	Do.
Reagan.....	44 56.45	11 27.54	do.....	Do.
Spofford, water tank.....	10 31.91	24 32.72	do.....	Do.
Turkey.....	22- 30.25	11 55.82	do.....	Do.
	29°-30°	103°-104°		
San Jacinto.....	29 45 12.59	103 57 19.11	do.....	Do.
Santiago.....	50 04.66	24 59.26	do.....	Do.
	29°-30°	104°-105°		
Chinati.....	29 57 09.32	104 28 41.05	do.....	Do.

ARKANSAS.

	36°-37° ° / "	91°-92° ° / "		
Salem.....	36 22 33.15	91 51 51.75	G. S.....	Bull. 122.
	36°-37°	92°-93°		
Alpha.....	36 13 01.65	92 06 48.75	do.....	Do.
Matny.....	12 18.70	18 57.43	do.....	Do.
Pilot.....	05 33.37	01 19.18	do.....	Do.
Pine, 2.....	24 47.43	40 42.55	do.....	Do.
Wallace Knob.....	21 23.63	22 37.71	do.....	Do.
	36°-37°	93°-94°		
Boat.....	36 07 33.17	93 02 09.29	do.....	Do.
Bread.....	34 45.63	28 47.28	do.....	Do.
Kennedy.....	14 24.06	13 31.11	do.....	Do.
Lead.....	25 50.96	00 52.38	do.....	Do.
Pyron.....	23 35.29	32 08.61	do.....	Do.
Sugar.....	27 36.37	53 48.00	do.....	Do.
Swain.....	17 23.38	45 52.65	do.....	Do.
Watson.....	15 00.09	28 21.56	do.....	Do.
	36°-37°	94°-95°		
Kestler.....	36 01 00.91	94 13 11.84	do.....	Do.
Orchard.....	09 59.74	04 32.59	do.....	Do.
Rogers.....	19 53.30	06 43.29	do.....	Do.
Twin.....	08 42.54	22 42.02	do.....	Do.
	35°-36°	90°-91°		
Appersen.....	35 06 51.50	90 10 07.14	Miss. R. C.....	Rept. '88.
Collins.....	01 32.71	17 33.87	do.....	Do.
East base.....	08 26.40	09 11.98	do.....	Do.
Fleece.....	03 11.19	10 11.52	do.....	Do.
Harris.....	02 13.13	12 47.81	do.....	Do.
Jones.....	05 25.92	10 33.06	do.....	Do.
Mathews.....	04 00.11	10 51.94	do.....	Do.
Mound City.....	10 39.88	06 29.73	do.....	Do.
Reeves.....	03 04.37	11 35.77	do.....	Do.
Scanlon.....	02 08.14	16 14.26	do.....	Do.
West base.....	08 09.59	10 36.53	do.....	Do.
	35°-36°	91°-92°		
Cedar.....	35 56 30.75	91 49 24.90	G. S.....	Bull. 122.
Deane.....	44 34.43	44 24.55	do.....	Do.
Mount Etna.....	52 32.89	45 07.36	do.....	Do.
	35°-36°	92°-93°		
Black.....	35 32 43.48	92 40 47.05	do.....	Do.
Blue.....	52 14.86	21 51.18	do.....	Do.
Brush.....	49 03.11	36 52.05	do.....	Do.
Burrow.....	09 31.11	43 28.65	do.....	Do.
Cox.....	03 50.10	14 56.57	do.....	Do.
Evans.....	29 25.31	51 19.02	do.....	Do.
Finch.....	46 32.23	10 42.94	do.....	Do.
Fourche.....	01 01.68	50 55.13	do.....	Do.
Hump.....	20 23.13	13 17.40	do.....	Do.
Irons Point.....	51 30.69	01 04.50	do.....	Do.
Pig.....	17 40.98	32 22.09	do.....	Do.
Pine Hill.....	38 06.80	41 20.52	do.....	Do.
Point Pisgah.....	07 29.37	29 16.62	do.....	Do.
Pond.....	41 32.08	11 27.52	do.....	Do.
Raspberry.....	39 42.89	57 49.34	do.....	Do.
Red Hill.....	43 30.27	30 59.57	do.....	Do.
Reeves.....	43 31.74	44 17.74	do.....	Do.
Round, 2.....	50 26.51	56 23.41	do.....	Do.
Walker.....	40 13.08	51 46.06	do.....	Do.
Walnut.....	39 08.44	30 30.08	do.....	Do.

ARKANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	35°-36°	93°-94°		
Bunker Hill.....	35 03 10.25	93 19 48.41	G. S.....	Bull. 122.
Hobbs.....	54 04.07	59 28.90	do.....	Do.
Magazine.....	09 57.68	38 41.72	do.....	Do.
Spring.....	12 42.00	19 36.80	do.....	Do.
	35°-36°	94°-95°		
Boston.....	35 47 37.74	94 10 03.95	do.....	Do.
Cane Hill.....	54 32.07	27 53.07	do.....	Do.
Cartright.....	42 00.22	08 46.89	do.....	Do.
Drake.....	57 41.53	31 16.56	do.....	Do.
Fort Smith.....	23 14.65	25 52.35	do.....	Do.
Lee.....	37 42.12	21 58.45	do.....	Do.
Lockard.....	39 37.70	15 09.63	do.....	Do.
Peak.....	04 22.98	22 22.85	do.....	Do.
Pinnacle.....	12 45.51	03 12.44	do.....	Do.
Skylight.....	50 02.13	32 30.28	do.....	Do.
Sloane.....	51 26.29	09 14.99	do.....	Do.
Strickler.....	47 44.26	20 16.53	do.....	Do.
Wakefield.....	44 14.02	02 28.69	do.....	Do.
	34°-35°	90°-91°		
Abbison.....	34 22 41.73	90 41 46.12	do.....	Do.
Adams.....	34 13.68	33 58.61	Miss. R. C.....	
Alderson.....	19 22.63	44 32.04	G. S.....	Do.
Allen.....	12 51.70	54 08.13	do.....	Do.
Arbuckle.....	20 12.28	44 57.00	do.....	Do.
Ashley.....	45 48.88	26 53.09	Miss. R. C.....	Rept. '87.
Baldwin.....	47 08.52	27 26.50	do.....	Do.
Basket.....	51 10.55	23 54.75	do.....	Do.
Beith Point.....	05 30.72	55 07.37	do.....	Rept. '82.
Berry.....	39 30.58	30 51.23	do.....	Rept. '87.
Blue Point.....	50 19.13	25 45.71	do.....	Do.
Black Oak.....	01 34.13	03 23.82	do.....	Rept. '82.
Bordeaux Island.....	45 48.85	30 22.77	do.....	Rept. '87.
Buckshot.....	35 32.60	33 15.48	do.....	Rept. '82.
Burtnett.....	03 12.58	54 13.97	do.....	Do.
Castile.....	23 17.62	43 15.05	do.....	Do.
Cat Island.....	55 31.59	15 55.39	do.....	Rept. '87.
Chute.....	57 17.51	16 04.78	do.....	Do.
Clack.....	45 09.20	27 39.33	do.....	Do.
Craig.....	24 19.19	37 30.66	do.....	Rept. '82.
Chute of 70.....	00 44.10	57 52.10	do.....	Do.
Dixie Landing.....	15 05.59	53 45.14	do.....	Do.
Fairview.....	59 11.84	17 37.76	do.....	Rept. '87.
Favorite Chute.....	44 56.19	31 12.88	do.....	Do.
Fort Penny.....	23 21.61	38 22.27	do.....	Rept. '82.
Fowler.....	07 20.61	56 53.18	do.....	Do.
Gillen.....	13 39.39	55 28.03	do.....	Do.
Graddys.....	01 05.73	02 09.50	do.....	Do.
Hackler.....	51 35.65	20 20.91	do.....	Rept. '87.
Hard Luck.....	02 44.85	55 39.03	do.....	Rept. '82.
Hardin Point.....	40 13.21	29 11.78	do.....	Rept. '87.
Helena.....	31 08.06	35 15.09	do.....	Rept. '82.
Helena Island No. 2.....	34 40.65	32 21.91	do.....	Do.
Horne.....	36 31.37	35 10.09	do.....	Rept. '87.
Hughey.....	16 09.25	48 57.54	do.....	Rept. '82.
Island 62.....	18 09.59	45 22.38	do.....	Do.
Island 63.....	17 30.48	45 39.10	do.....	Do.
Island 67.....	08 56.54	57 11.68	do.....	Do.
Island 68.....	08 30.47	56 30.01	do.....	Do.
Jacks.....	11 10.44	52 52.80	do.....	Do.
Jackson.....	40 25.02	33 30.01	do.....	Rept. '88.
Kangaroo Point.....	22 16.17	40 17.72	do.....	Rept. '82.
Knowlton.....	09 50.51	54 09.39	do.....	Do.
Laconia.....	02 20.86	50 25.74	do.....	Do.
Lotta.....	38 50.76	35 08.41	do.....	Rept. '88.
Ludlow.....	11 32.62	54 28.03	do.....	Rept. '82.
Malloy.....	14 49.02	50 09.87	do.....	Do.
Minorck.....	06 29.50	50 13.29	do.....	Do.
Mohawk.....	09 16.51	52 12.17	do.....	Do.
Modoc.....	17 28.13	47 52.86	do.....	Do.
McCullom.....	20 53.26	45 20.01	do.....	Do.
McConnell.....	57 58.73	16 28.55	do.....	Rept. '88.
Oliver.....	09 28.04	50 58.24	do.....	Rept. '82.
Paroquet.....	17 48.95	46 35.64	do.....	Do.
Peters.....	48 47.25	27 42.03	do.....	Rept. '88.
Porter Lake.....	52 08.18	19 17.04	do.....	Do.
Prairie.....	35 37.18	34 04.13	do.....	Do.
Prewitt.....	21 50.94	45 18.85	do.....	Rept. '82.
Quaw.....	27 29.65	34 52.57	do.....	Do.
Rogers.....	43 45.82	31 50.45	do.....	Rept. '88.

ARKANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	34°-35° ° "	90°-91° ° "		
St. Francis	34 40 00.08	90 31 43.83	Miss. R. C	Rept. '88.
St. Louis Landing	11 18.35	51 49.86	do	Rept. '82.
Sterling	37 27.75	35 84.87	do	Rept. '88.
Tow Head	17 59.77	44 19.60	do	Rept. '82.
West base	39 10.54	32 25.40	do	Rept. '88.
Westover	22 55.12	39 15.24	do	Rept. '82.
Walnut Bend	42 52.44	31 23.23	do	Rept. '88.
Wardell	39 24.73	28 59.63	do	Do.
Warfield	01 52.15	57 09.66	do	Rept. '82.
Williamson	29 32.37	35 27.48	do	Do.
Zenor	09 54.94	56 19.41	do	Do.
	34°-35°	91°-92°		
Foot of 70	34 00 10.06	91 00 49.71	do	Do.
Henley	00 44.49	04 41.86	do	Do.
Scrub Grass	00 17.90	03 46.25	do	Do.
	34°-35°	92°-93°		
Big Rock	34 46 17.88	92 17 55.49	G. S	Bull. 122.
Blocher	40 12.75	50 32.26	do	Do.
East base	44 09.15	10 24.73	do	Do.
Granite	41 11.10	17 30.50	do	Do.
Maumelle	50 25.22	29 08.79	do	Do.
Moss Mountain	49 53.56	40 13.42	do	Do.
Post-office	44 47.83	16 25.36	do	Do.
Reynolds	58 28.95	28 17.66	do	Do.
Shinall	47 51.69	29 49.62	do	Do.
West base	45 19.09	13 33.32	do	Do.
Warsaw	56 33.48	08 52.12	do	Do.
	34°-35°	93°-94°		
Allen	34 51 06.10	93 28 14.79	do	Do.
Muddy	46 06.63	31 57.82	do	Do.
Powell	46 01.91	20 45.57	do	Do.
Round	44 00.72	44 55.63	do	Do.
Smith	46 11.34	01 49.01	do	Do.
Whiteoak	58 41.14	56 41.10	do	Do.
	34°-35°	94°-95°		
Black Fork	34 42 39.78	94 22 05.39	do	Do.
Blue	41 07.21	02 53.18	do	Do.
East Poteau	58 32.51	09 30.16	do	Do.
Poteau, 2	57 42.39	22 31.33	do	Do.
	33°-34°	91°-92°		
Adams	33 12 35.70	91 06 03.33	Miss. R. C	Rept. '88.
Arkansas River	48 41.21	04 22.02	do	Rept. '82.
Arkansas City	36 06.49	12 31.35	do	Do.
Bachelors Bend, tow-head	23 35.23	05 34.93	do	Rept. '88.
Barnard	05 54.40	10 35.21	do	Do.
Betsley	59 01.89	04 09.20	do	Rept. '82.
Bradley	57 22.66	03 09.49	do	Do.
Brooks	09 09.00	09 28.35	do	Rept. '88.
Cane	43 35.28	10 56.80	do	Rept. '82.
Cassell	59 49.91	04 52.14	do	Do.
Catfish Tow-head	40 41.36	08 30.06	do	Do.
Chicora	40 28.00	12 24.65	do	Do.
Chicot	38 55.47	10 58.84	do	Do.
Cook	40 25.69	05 04.81	do	Do.
Coryes	42 27.28	04 45.30	do	Do.
Cracraft's gin, southeast gable	03 50.50	09 45.19	do	Do.
Cumbyville	54 07.09	03 57.62	do	Do.
Cypress Creek	45 13.16	11 48.85	do	Do.
Davis	18 53.89	11 00.65	do	Do.
Deadwood	43 12.05	06 55.94	do	Do.
Drift	10 27.90	05 26.45	do	Rept. '88.
Duffin	35 24.94	13 20.47	do	Rept. '82.
Eunic	32 23.38	12 45.58	do	Do.
Frank, J	53 14.11	03 52.27	do	Do.
Ford	08 49.85	07 53.74	do	Rept. '88.
Gaines Landing	27 51.90	14 28.68	do	Rept. '82.
Good Luck	43 10.75	09 31.84	do	Do.
Goose Bar	15 21.19	07 40.25	do	Rept. '88.
Graves	00 58.81	09 53.22	do	Do.
Store, northeast chimney	02 16.91	09 42.48	do	Do.
Haley	08 25.73	11 08.73	do	Do.
Halliday	22 26.22	07 48.58	do	Do.
Harwood	09 18.91	06 37.96	do	Do.
Harwood's store, chimney	09 39.42	06 11.70	do	Do.
Harwood, white house, southeast chimney	09 40.42	06 28.32	do	Do.
Hawkins	09 48.23	06 05.91	do	Do.
Hayden	42 42.45	05 53.93	do	Rept. '82.
Hill's chimney	07 49.20	08 44.99	do	Rept. '88.

ARKANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	33°-34°	91°-92°		
	33 " "	91 " "		
Hilliard	04 54.70	10 05.42	Miss. R. C.	Rept. '88.
Hilliard's pigeon house	04 50.91	10 06.37	do	Do.
Hilliard's store chimney	04 52.10	10 06.00	do	Do.
Hunting Lodge	03 15.94	09 48.94	do	Do.
Island 78	36 46.27	09 44.39	do	Rept. '82.
Island 83	25 20.40	03 58.47	do	Do.
Jersey Point	40 57.39	07 15.36	do	Do.
Junction	13 20.01	07 00.70	do	Rept. '88.
Lakeport	13 37.43	07 31.09	do	Do.
Lands End	59 15.90	00 17.07	do	Rept. '82.
Leland	21 41.85	09 09.44	do	Do.
Longwood :				
Gin chimney	09 26.64	04 37.49	do	Rept. '88.
Warehouse gable	09 15.33	05 18.64	do	Do.
Marengo, gin chimney	05 54.88	11 29.23	do	Do.
Middle Ground	50 05.95	03 28.32	do	Rept. '82.
Melona	51 29.22	03 07.89	do	Do.
Mitchell	39 41.03	11 46.10	do	Do.
Montgomery	58 06.02	03 32.66	do	Do.
Moore	07 32.10	11 51.06	do	Rept. '88.
Mud Creek	28 38.13	14 17.93	do	Rept. '82.
Napoleon	47 45.35	04 33.45	do	Do.
North Choctaw	38 20.50	09 56.12	do	Do.
Oak Landing	44 08.01	08 29.53	do	Do.
Old Town	22 55.91	44 25.92	do	Do.
Ozark	45 56.60	06 32.98	do	Do.
Palmetto	33 16.62	13 24.13	do	Do.
Panther Forest	26 47.53	12 28.08	do	Do.
Point Chicot	24 44.14	05 24.84	do	Rept. '88.
Tow Head	26 04.00	05 06.98	do	Rept. '82.
Point Comfort	28 40.47	10 40.46	do	Do.
Point Cook	41 29.00	03 53.80	do	Do.
Raft	11 42.42	05 34.81	do	Rept. '88.
Raynor	03 59.84	09 34.36	do	Do.
Rowdy Bend	26 50.95	13 41.37	do	Rept. '82.
Russett	42 00.01	02 53.33	do	Do.
Sabenden	41 20.95	12 38.08	do	Do.
Sibley	56 25.35	03 00.68	do	Do.
Scott	27 29.08	11 23.08	do	Do.
South Choctaw	37 21.02	09 19.52	do	Do.
Starling	16 46.24	08 29.68	do	Rept. '88.
Sterling	02 02.89	00 36.32	do	Do.
Stevenson	00 09.42	11 05.68	do	Do.
Sunnyside	17 31.73	09 22.35	do	Do.
Thorn Point	46 38.45	05 20.47	do	Rept. '82.
Turner	40 17.03	06 17.35	do	Do.
Vancluse	20 27.64	10 32.78	do	Rept. '88.
Wallwood	25 37.56	06 35.10	do	Rept. '82.
Warner	28 37.54	08 04.30	do	Do.
White Hill	36 24.25	11 19.67	do	Do.
White River	55 31.36	03 19.12	do	Do.
Whittaker	22 57.68	06 47.74	do	Rept. '88.
Wilkinson	42 09.15	08 10.34	do	Rept. '82.
Williams	45 15.51	08 37.61	do	Do.
Yellow Bend	34 16.41	13 46.24	do	Do.

INDIAN TERRITORY.

	35°-36°	94°-95°		
	35 " "	94 " "		
Cavanal	04 11.43	40 46.16	G. S.	Bull. 122.
North base	07 59.47	32 01.38	do	Do.
Poteau, 1	55 24.14	29 28.19	do	Do.
South base	05 47.52	33 23.98	do	Do.
Sugarloaf	01 31.49	28 07.04	do	Do.

TENNESSEE.

	36°-37°	82°-83°		
	36 " "	82 " "		
Bristol	35 49.00	11 13.00	C. & G. S.	Bull. 122.
Chimney Top	24 28.90	42 24.20	G. S.	Do.
Holston	27 27.30	04 38.50	do	Do.
Roan	06 16.40	07 20.60	do	Do.

TENNESSEE—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	36°-37° ° ' "	83°-84° ° ' "		
House	36 06 42.90	83 45 59.90	G. S.	Bull. 122.
McLean	28 19.80	55 47.60	do	Do.
Short	22 52.60	10 45.80	do	Do.
War Gap	30 14.70	01 38.00	do	Do.
	36°-37°	84°-85°		
Adkins	36 09 42.75	84 51 52.98	C. & G. S.	
Brushy	04 37.22	24 37.75	do	
Cross	11 55.20	13 52.80	do	Do.
Jellico	35 03.20	07 28.80	do	
	36°-37°	85°-86°		
Apple	36 10 48.51	85 48 09.98	do	
Walker	10 26.85	20 36.63	do	
	35°-36°	82°-83°		
Chunky	35 59 39.50	82 53 42.30	G. S.	Do.
	35°-36°	83°-84°		
Chilhowee, 1	35 45 54.50	83 45 30.10	do	Do.
English	54 04.90	17 51.50	C. & G. S.	Do.
	35°-36°	84°-85°		
Hangover	35 23 11.70	84 58 08.16	do	
Chilhowee, 2	35 46.90	00 28.00	G. S.	Do.
Chilhowee, 4	07 24.70	37 16.20	do	Do.
Guide	26 25.80	14 03.60	do	Do.
Hinch	46 53.10	58 42.80	do	Do.
Luper	57 16.39	47 20.17	do	
Melton	54 34.80	18 18.40	do	Do.
Owen	36 34.00	29 38.84	do	
Roy	31 27.60	26 46.30	G. S.	Do.
Texas	19 31.70	54 38.40	do	Do.
	35°-36°	85°-86°		
Cardwell	35 40 59.82	85 40 47.61	C. & G. S.	
Grindstone	04 18.00	01 18.60	G. S.	Do.
Harvey	23 33.10	17 44.90	do	Do.
Mount Love	54 57.71	32 26.12	C. & G. S.	
Short	52 14.78	58 22.44	do	Do.
	35°-36°	86°-87°		
Bennett	35 55 57.47	86 37 11.08	do	
Versailles	43 11.94	32 22.52	do	
	35°-36°	90°-91°		
Barton	35 12 16.53	90 06 03.23	Miss. R. C.	Rept. '87.
Bayou	08 05.49	07 38.44	do	Do.
Cow Island	00 19.18	16 57.76	do	Do.
Bend	00 12.26	17 56.78	do	Do.
Crawford	06 54.00	08 23.68	do	Do.
Davis	07 05.13	06 46.91	do	Do.
Ensley	04 10.88	09 39.29	do	Do.
Forrest	06 41.10	05 20.36	do	Do.
Frame Chute	10 57.76	04 14.43	do	Do.
Hopefield	09 54.93	04 27.02	do	Do.
Horn Lake	01 19.59	12 30.17	do	Do.
Lake	07 41.73	09 18.49	do	Do.
Leadbetter	06 08.40	09 31.28	do	Do.
Memphis	08 39.00	03 15.45	C. & G. S.	Rept. '84.
Do	08 39.85	03 20.22	Miss. R. C.	Rept. '87.
Do	08 38.60	03 16.50	L. S.	Final Rept.
Do	08 37.50	03 17.40	do	Do.
Patterson	02 09.75	13 52.91	Miss. R. C.	Rept. '87.
Peterson	07 46.06	04 15.11	do	Do.
Rock Chute	01 29.67	13 52.91	do	Do.
Vance, jr	07 39.56	05 37.57	do	Do.
Vance, sr	08 30.58	04 26.90	do	Do.
Wolf River	10 06.18	03 19.66	do	Do.
Watson	01 54.65	11 17.84	do	Do.

KENTUCKY.

	83°-89° ° ' "	82°-83° ° ' "		
Howland	38 37 47.18	82 59 20.14	C. & G. S.	Rept. '84.
Louisa transit	06 54.90	36 06.15	do	Do.
Buena Vista	23 44.10	43 21.47	do	
Oakland	21 46.55	38 52.70	do	
	83°-89°	83°-84°		
Cave	38 32 39.81	83 04 23.42	do	
Mount Sterling	03 28.40	55 50.90	G. S.	Bull. 122.

KENTUCKY—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39° ° ' "	84°-85° ° ' "		
Falmouth	38 40 37.60	84 16 54.20	C. & G. S.	
Lexington College building	02 25.30	30 21.00	do.....	
	38°-39°	85°-86°		
Cox Knob	38 09 25.40	85 40 15.80	do.....	
Louisville	15 08.00	45 28.80	do.....	
Shelbyville	12 45.40	13 14.60	do.....	
	37°-38°	82°-83°		
Frazier	37 24 02.90	82 40 05.60	G. S.	Bull. 122.
Preston	46 57.30	55 11.60	do.....	Do.
Quicksand	29 03.30	55 46.20	do.....	Do.
Wascoto	06 44.80	43 54.00	do.....	Do.
Willard	15 35.30	22 59.90	do.....	Do.
Wolf	43 34.40	34 20.90	do.....	Do.
	37°-38°	83°-84°		
Ballard	37 55 18.40	83 42 23.10	do.....	Do.
Carr	14 29.20	05 33.50	do.....	Do.
Coburn	55 56.20	43 43.90	do.....	Do.
Cope	37 26.90	18 51.00	do.....	Do.
Gross	30 31.10	35 32.40	do.....	Do.
High Rocks	47 22.30	46 36.70	do.....	Do.
Hunter	23 10.00	46 20.60	do.....	Do.
High Knob	14 57.60	53 49.70	do.....	Do.
Hogtown	37 01.90	04 28.30	do.....	Do.
Nailor	27 49.50	24 58.00	do.....	Do.
Nelson	43 13.40	31 05.10	do.....	Do.
Orchard	08 35.20	44 05.80	do.....	Do.
Pilot	12 53.80	50 05.60	do.....	Do.
Raccoon	09 04.30	59 29.60	do.....	Do.
Rice	22 14.30	35 33.90	do.....	Do.
Rose	27 39.70	33 16.30	do.....	Do.
Turkey	27 16.30	44 26.80	do.....	Do.
Willoughby	55 39.80	53 07.60	do.....	Do.
	37°-38°	84°-85°		
Bear	37 32 08.90	84 15 21.30	do.....	Do.
Brushy	20 04.50	25 51.20	do.....	Do.
Green River	09 14.90	50 42.50	do.....	Do.
Lancaster	37 10.50	34 43.30	do.....	Do.
London	08 02.20	05 20.14	C. & G. S.	Rept. '84.
Richmond	44 30.40	18 02.64	G. S.	Bull. 122.
Central College	44 32.80	18 02.00	C. & G. S.	
Sand	31 12.40	52 08.90	G. S.	Do.
Stone quarry	37 56.20	02 33.10	do.....	Do.
	37°-38°	85°-86°		
Greensburg	37 15 38.30	85 29 56.40	C. & G. S.	
	37°-38°	86°-87°		
Oakland	37 02 27.50	86 15 18.30	do.....	Rept. '84.
	37°-38°	87°-88°		
Henderson	37 50 24.80	87 35 26.10	do.....	Do.
	37°-38°	88°-89°		
Paducah	37 04 59.20	88 35 56.10	do.....	Do.
	36°-37°	83°-84°		
Gray Knob	36 47 16.20	83 17 26.40	G. S.	Bull. 122.
Harlan	53 54.70	19 03.10	do.....	Do.
Longspur	56 22.40	02 30.50	do.....	Do.
Paint Gap	57 16.50	36 31.80	do.....	Do.
White Rocks	39 54.70	27 03.30	do.....	Do.
	36°-37°	84°-85°		
King	36 50 59.90	84 05 34.40	do.....	Do.
	36°-37°	87°-88°		
Guthrie	36 38 53.90	87 09 36.15	C. & G. S.	
	36°-37°	89°-90°		
Hickman	36 34 17.70	89 11 41.35	do.....	Rept. '84.

OHIO.

	41°-42° ° ' "	80°-81° ° ' "		
Andover	41 37 05.72	80 36 30.62	L. S.	Final Rept.
Ashtabula:				
Baptist church	52 02.70	47 01.60	do.....	Do.
Southwest corner passenger depot	52 36.13	47 38.55	do.....	Do.

OHIO—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42°	80°-81°		
Conneaut.....	41 53 52.58	80 36 51.56	C. & G. S.	Final Rept.
Geneva.....	51 14.20	59 47.00	do	Do.
Saybrook.....	53 33.00	49 55.00	do	Do.
Mesopotamia.....	26 59.98	59 54.09	do	Do.
Berea:	41°-42°	81°-82°		
German Wallace College chapel spire.....	41 22 06.10	81 51 06.30	do	Do.
Stone Methodist church spire.....	21 46.70	51 12.50	do	Do.
Chester.....	32 02.88	21 17.20	do	Do.
Claridon.....	30 39.61	07 06.27	do	Do.
Cleveland:				
Light-house on high bank in city.....	30 06.13	42 13.20	do	Do.
Light-house.....	30 01.60	42 09.60	do	Do.
Euclid.....	35 37.30	33 05.20	do	Do.
Fairport:				
Light-house on bank.....	45 24.80	16 39.70	do	Do.
Light-house on pier.....	45 41.60	16 48.80	do	Do.
Grafton.....	12 44.21	59 37.85	do	Do.
Little Mountain.....	38 26.34	16 28.60	do	Do.
North Royalton:				
Stone Baptist church spire.....	18 53.60	44 10.70	do	Do.
Frame Methodist church, in northern part of town, spire.....	19 29.20	44 10.40	do	Do.
Olmstead.....	22 52.18	57 22.96	do	Do.
Painesville:				
Episcopal church (spire) on west side of State street.....	43 41.20	14 36.10	do	Do.
Spire brick Congregational church.....	43 26.00	14 44.30	do	Do.
Perry.....	48 04.70	08 55.60	do	Do.
Rockport.....	27 45.93	47 32.30	do	Do.
Royalton.....	19 29.89	44 10.65	do	Do.
Thompson.....	41 14.35	02 37.47	do	Do.
Warrensville.....	28 39.24	30 12.88	do	Do.
Willoughby.....	40 28.71	26 25.77	do	Do.
	41°-42°	82°-83°		
Black River light-house.....	41 28 23.90	82 11 08.30	do	Do.
Brownhelm.....	23 18.46	18 28.76	do	Do.
Camden.....	16 26.04	17 46.73	do	Do.
Cedar Point light-house.....	29 17.40	41 37.40	do	Do.
Danbury.....	31 11.94	50 20.30	do	Do.
East base.....	26 28.58	38 04.66	do	Do.
Elyria.....	24 55.41	08 44.06	do	Do.
Green Island light-house.....	38 43.90	52 04.10	do	Do.
Huron:				
Presbyterian church spire.....	23 42.60	33 21.00	do	Do.
Light-house.....	24 03.10	32 51.10	do	Do.
Kelley.....	36 17.77	41 45.29	do	Do.
Marblehead light-house.....	32 11.00	42 43.40	do	Do.
Middle base.....	41 47.87	47 15.12	do	Do.
Oberlin:				
Second Congregational church spire.....	17 28.90	13 10.50	do	Do.
Pointed tower at Union School building, South Main street.....	17 26.20	13 01.80	do	Do.
Point Pelee.....	48 50.72	41 02.55	do	Do.
Sandusky.....	24 34.43	45 02.76	do	Do.
Court-house.....	27 13.80	42 41.90	do	Do.
Townsend.....	15 43.48	29 00.63	do	Do.
Vermillion.....	25 12.70	21 59.40	do	Do.
West base.....	29 02.32	40 58.43	do	Do.
	41°-42°	83°-84°		
Cedar Point.....	41 42 37.77	83 20 06.66	do	Do.
Locust Point.....	36 54.83	06 21.38	do	Do.
Toledo:				
St. Mary's Catholic church spire.....	39 32.10	32 02.50	do	Do.
Astronomical station, 182 west and 188 north of stone marking intersection of Ontario and Monroe streets; stone, long post, of 1881.....	39 03.65	32 30.60	do	Do.
Turtle Island light-house.....	45 08.80	23 28.80	do	Do.
West Sister Island light-house.....	44 13.10	06 39.00	do	Do.
	39°-40°	82°-83°		
Columbus, transit.....	39 57 40.00	82 59 42.15	C. & G. S.	Rept. '84.
	39°-40°	84°-85°		
Cincinnati.....	39 08 20.00	84 25 20.49	do	Do.
Mitchell's observatory (abandoned).....	05 54.00	29 45.75	do	Do.

OHIO—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	35°-39° ° ' "	82°-83° ° ' "		
Fradd	38 35 47.00	82 33 05.85	C. & G. S.	Bull. 122.
Gould	38 27.64	49 56.46	do	Do.
South Point	25 14.00	35 26.00	do	Do.
Wray	35 42.32	27 38.71	do	Do.

INDIANA.

	41°-42° ° ' "	84°-85° ° ' "		
Fremont	41 42 32.09	84 57 58.97	L. S.	Final Rept.
NW. corner sec. 31, T. 38 N., R. 14 E.	42 55.90	58 16.00	do	Do.
Corner secs. 2, 3, 10, 11, T. 37 N., R. 6 E.	41 40 54.80	85 48 43.50	do	Do.
Jefferson	41 00.04	48 30.08	do	Do.
SW. corner NW. $\frac{1}{4}$ sec. 33, T. 38 N., R. 8 E.	42 16.10	37 13.60	do	Do.
Corner secs. 4, 5, 8, 9, T. 37 N., R. 11 E.	41 08.40	16 23.30	do	Do.
Lima, tower schoolhouse	43 30.70	25 13.60	do	Do.
Mongo	41 34.56	16 08.70	do	Do.
Van Buren	42 29.79	36 46.74	do	Do.
Carlisle	41 40 05.16	86 29 38.80	do	Do.
Galena	41 45.88	40 32.13	do	Do.
Michigan City	44 07.79	52 20.79	do	Do.
High school spire	42 51.80	53 47.60	do	Do.
Spire Lutheran church	42 45.40	53 59.60	do	Do.
Light-house	43 21.10	54 21.80	do	Do.
Otis	35 18.65	52 35.94	do	Do.
Penn.	38 53.13	12 26.72	do	Do.
New Carlisle:				
Spire Christian church	42 22.30	30 41.90	do	Do.
Spire Methodist Episcopal church.	42 25.70	30 40.80	do	Do.
South Bend:				
Standpipe	40 31.40	14 52.60	do	Do.
University dome	42 11.00	14 20.90	do	Do.
Springville	39 52.80	44 30.61	do	Do.
Corner secs. 17, 18, 19, 20, T. 37 N., R. 3 E.	39 04.40	12 57.30	do	Do.
Corner secs. 2, 3, 10, 11, T. 37 N., R. 1 W.	40 46.40	30 23.60	do	Do.
SW. corner SE. $\frac{1}{4}$ of SW. $\frac{1}{4}$ sec. 32, T. 38 N., R. 2 W.	41 39.00	40 33.40	do	Do.
SE. corner sec. 10, T. 37 N., R. 3 W.	39 52.20	44 19.70	do	Do.
NW. corner sec. 10, T. 36 N., R. 4 W.	35 32.80	52 39.00	do	Do.
Miller	41 36 55.42	87 14 18.63	do	Do.
SE. corner of NE. $\frac{1}{4}$ sec. 6, T. 36 N., R. 7 W.	36 05.10	15 40.50	do	Do.
SW. corner of SE. $\frac{1}{4}$ of SE. $\frac{1}{4}$ sec. 27, T. 7 N., R. 11 E.	39 01 00.87	85 16 59.40	C. & G. S.	Do.

ILLINOIS.

	42°-43° ° ' "	87°-88° ° ' "		
Benton	42 29 02.87	87 52 44.10	L. S.	Final Rept.
Deerfield	10 20.55	50 45.94	do	Do.
Evanston:				
Center tower of Northwest University.	03 06.50	40 34.20	do	Do.
SW. corner sec. 25, T. 41 N., R. 13 W.	00 40.60	49 34.40	do	Do.
Waukegan:				
Presbyterian church	21 41.40	50 03.30	do	Do.
Court-house	21 33.90	50 58.60	do	Do.
NW. corner sec. 6, T. 46 N., R. 12 E.	29 37.20	52 56.50	do	Do.
SE. corner sec. 24, T. 45 N., R. 11 E.	21 21.60	53 06.40	do	Do.
SW. corner sec. 28, T. 43 N., R. 12 E.	10 02.30	50 51.60	do	Do.
Park Ridge	00 58.27	49 40.50	do	Do.
Warren	21 26.58	53 23.14	do	Do.
Antioch	42 26 03.67	88 03 12.50	do	Do.
Clinton	29 39.34	52 01.15	C. & G. S.	Bull. 122.
Deans Corners, Congregational church.	16 38.50	02 41.30	L. S.	Final Rept.

ILLINOIS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	88°-89°		
Fremont	42 16 37.13	88 02 44.01	L. S.	Final Rept.
Palatine	07 02.94	02 26.62	do	Do.
Spire Methodist Episcopal church.	06 46.20	02 37.40	do	Do.
High school building flagstaff	06 48.80	02 31.10	do	Do.
Rock church	22 04.81	56 38.03	C. & G. S.	
SW. corner sec. 14, T. 42 N., R. 10 E.	06 37.50	02 38.40	L. S.	Do.
SW. corner sec. 27, T. 46 N., R. 10 E.	25 47.80	03 45.80	do	Do.
	42°-43°	89°-90°		
Newark	42 29 55.62	89 12 36.97	C. & G. S.	
Rockton, church	27 23.19	04 15.41	do	
Roscoe, church	28 17.97	03 17.82	do	
State line No. 1	29 49.18	04 25.93	do	
Wadams Grove	24 58.94	52 02.53	do	
Warren	29 38.37	59 16.37	do	
Galena:	42°-43°	90°-91°		
Northeast corner Methodist Episcopal church.	42 25 11.50	90 25 55.70	L. S.	Final Rept.
Intersection of fourth principal meridian with State line.	30 26.10	25 33.60	do	Do.
Horseshoe Mound	24 31.56	23 59.71	C. & G. S.	
	41°-42°	87°-88°		
Chicago	41 50 01.00	87 50 26.78	L. S.	Do.
Tower of waterworks	53 49.80	37 28.30	do	Do.
Light-house	53 20.50	36 52.20	do	Do.
Do	53 22.49	36 48.90	do	Do.
Tall tower of Chicago University.	49 58.60	36 45.20	do	Do.
Shot tower	53 11.42	38 30.13	do	Do.
Crete	24 53.57	38 40.50	do	Do.
Cyrus Township, SW. corner sec. 34, T. 38 N., R. 13 W.	43 56.40	51 27.10	do	Do.
Dalton, prominent brick chimney	38 59.20	17 08.40	do	Do.
East base	45 36.06	43 36.69	do	Do.
Frankfort:				
German Lutheran church	29 45.00	50 58.80	do	Do.
Flagstaff of elevator	29 55.50	51 00.80	do	Do.
Garden	26 24.48	49 35.93	do	Do.
Grant	14 50.04	38 49.45	do	Do.
Kankakee	07 06.19	51 40.58	do	Do.
High school building tower	07 06.20	51 40.60	do	Do.
Southwest corner of water table of court-house.	07 09.00	51 38.80	do	Do.
First Baptist church spire	07 12.80	51 39.10	do	Do.
Lombard	54 07.70	59 25.02	do	Do.
Lyons Township, NE. corner sec. 13, T. 38 N., R. 13 W.	47 30.80	48 05.90	do	Do.
Manteno	14 54.96	50 07.43	do	Do.
Northeast corner Catholic church.	14 48.80	50 12.50	do	Do.
Methodist church spire	15 09.00	50 16.60	do	Do.
Military Academy	41 21.85	40 32.96	do	Do.
Morgan Park	41 28.60	40 24.98	do	Do.
Baptist church	41 37.20	40 39.50	do	Do.
Orland	34 20.08	51 19.04	do	Do.
Palos Township:				
NW. corner sec. 3, T. 37 N., R. 13 W.	43 56.40	51 25.90	do	Do.
Center of sec. 13, T. 38 N., R. 13 W.	47 03.60	48 41.90	do	Do.
St. Anne	01 19.46	43 16.04	do	Do.
Catholic church spire	01 36.20	43 19.60	do	Do.
West base	47 03.40	48 40.33	do	Do.
Willow Springs	43 36.93	51 06.36	do	Do.
Do	43 38.63	51 06.75	do	Do.
Center of sec. 4, T. 39 N., R. 11 E.	53 49.50	59 19.40	do	Do.
Center of sec. 8, T. 30 N., R. 13 W.	05 55.80	51 34.40	do	Do.
Corner secs. 10, 11, 14, and 15, T. 34 N., R. 13 W.	26 27.00	49 33.00	do	Do.
Corner secs. 15, 16, 21, and 22, T. 32 N., R. 12 E.	15 01.90	50 19.50	do	Do.
Corner secs. 27, 28, 33, and 34, T. 36 N., R. 12 E.	34 20.10	51 06.70	do	Do.
NE. corner sec. 20, T. 32 N., R. 11 W.	15 07.30	37 33.30	do	Do.
NE. corner sec. 27, T. 38 N., R. 13 W.	45 50.80	43 21.00	do	Do.
NW. corner sec. 4, T. 39 N., R. 11 E.	54 18.40	59 54.00	do	Do.
SE. corner sec. 13, T. 37 N., R. 12 W.	41 30.50	40 52.40	do	Do.
SW. corner sec. 4, T. 29 N., R. 12 W.	01 15.40	43 56.80	do	Do.
SW. corner sec. 20, T. 34 N., R. 11 W.	24 47.50	38 05.06	do	Do.
Rock Island:	41°-42°	90°-91°		
Southeast corner of guard-house	41 31 01.50	90 33 46.00	do	Do.
Astronomical post on U. S. Arsenal grounds.	31 03.40	33 40.10	do	Do.

ILLINOIS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41°	87°-88°		
	° ' "	° ' "		
Ash.....	40 35 18.36	87 47 49.98	L. S.....	Final Rept.
Butler.....	24 17.70	46 54.55	do.....	Do.
Clifton.....	56 14.29	56 16.74	do.....	Do.
Northeast corner Congregational church.....	56 08.60	56 08.90	do.....	Do.
Schoolhouse tower.....	56 15.90	56 11.00	do.....	Do.
Fairmount.....	01 35.84	50 48.78	do.....	Do.
Methodist church spire.....	02 45.10	49 44.80	do.....	Do.
Baptist church spire.....	02 43.20	49 51.10	do.....	Do.
Hoopeston Methodist church spire.....	23 02.00	40 00.20	do.....	Do.
Pilot Grove.....	12 03.60	50 12.60	do.....	Do.
Spring Creek.....	40 00.18	59 30.11	do.....	Do.
Watseka.....	45 08.69	47 17.39	do.....	Do.
Court-house tower.....	46 28.90	44 09.00	do.....	Do.
Corner secs. 8, 9, 16, and 17, T. 20 N., R. 13 W.....	12 07.10	50 45.00	do.....	Do.
Corner secs. 33 and 34, T. 29 N., R. 14 W.....	56 35.80	56 36.50	do.....	Do.
NE. corner sec. 2, T. 26 N., R. 13 W.....	46 19.00	47 11.50	do.....	Do.
NE. corner sec. 35, T. 25 N., R. 13 W.....	35 19.70	47 07.30	do.....	Do.
SE. corner sec. 8, T. 18 N., R. 13 W.....	01 35.30	50 37.10	do.....	Do.
SE. corner sec. 35, T. 27 N., R. 13 W.....	46 19.00	47 12.50	do.....	Do.
SE. corner sec. 35, T. 23 N., R. 13 W.....	24 05.00	45 46.80	do.....	Do.
SE. corner sec. 36, T. 23 N., R. 13 W.....	24 05.70	45 39.00	do.....	Do.
SW. corner of SE. ¼ of sec. 31, T. 26 N., R. 14 W.....	40 46.50	59 00.50	do.....	Do.
	40°-41°	88°-89°		
Champaign, Illinois Industrial University, center of east tower.....	40 06 33.10	88 13 38.50	do.....	Do.
Mayview.....	06 52.95	07 21.47	do.....	Do.
Paxton.....	26 40.47	02 08.20	do.....	Do.
Congregational church spire.....	27 37.70	06 00.80	do.....	Do.
Swedish Evangelical Lutheran church spire.....	27 23.00	05 24.40	do.....	Do.
Rantoul.....	19 13.84	02 09.67	do.....	Do.
Steeple with cross.....	18 37.30	09 25.80	do.....	Do.
White steeple.....	18 41.70	09 53.60	do.....	Do.
Sydney, tall chimney.....	01 25.60	04 10.70	do.....	Do.
Center sec. 35, T. 22 N., R. 10 E.....	19 12.20	01 52.20	do.....	Do.
Corner secs. 7 and 18, T. 19 N., R. 10 E., and secs. 12 and 13, T. 19 N., R. 9 E.....	06 47.80	07 28.90	do.....	Do.
Corner secs. 14, 15, 22, and 23, T. 23 N., R. 10 E.....	26 39.80	02 27.70	do.....	Do.
Land survey corner ¼ mile E. of corner of secs. 14, 15, 22, and 23, T. 23 N., R. 10 E.....	26 39.90	02 10.60	do.....	Do.
	40°-41°	91°-92°		
Gillham.....	40 18 41.16	91 26 03.69	Miss. R. C.....	Rept. '84.
Hamilton.....	24 12.28	21 30.64	do.....	Do.
Church spire.....	23 34.60	20 52.85	do.....	Rept. '88.
Lima Lake.....	10 13.14	24 49.15	do.....	Rept. '84.
Rapids.....	25 16.66	21 49.71	do.....	Do.
Warsaw.....	22 01.44	25 40.96	do.....	Do.
Methodist Episcopal church spire.....	21 40.25	26 05.39	do.....	Rept. '88.
Presbyterian church spire.....	21 33.11	26 14.81	do.....	Do.
Worster.....	22 49.90	21 54.38	do.....	Rept. '84.
	39°-40°	87°-88°		
Belle Air.....	39 10 36.33	87 52 09.33	L. S.....	Final Rept.
Casey:				
Schoolhouse tower.....	18 03.80	59 02.10	do.....	Do.
Methodist church steeple.....	17 58.40	59 27.90	do.....	Do.
Kansas.....	30 51.85	51 48.11	do.....	Do.
Presbyterian church spire.....	33 22.70	56 11.60	do.....	Do.
Methodist church spire.....	33 08.60	56 22.20	do.....	Do.
Marshall Catholic church steeple.....	23 15.40	41 40.90	do.....	Do.
Martinsville.....	18 56.71	51 15.48	do.....	Do.
Palermo.....	52 33.82	52 03.20	do.....	Do.
Paris:				
Methodist church spire.....	36 45.60	41 41.60	do.....	Do.
Christian church steeple.....	36 36.20	41 38.90	do.....	Do.
Center of sec. 5, T. 16 N., R. 13 W.....	52 21.60	52 16.20	do.....	Do.
Center of sec. 16, T. 10 N., R. 13 W.....	19 03.40	51 10.60	do.....	Do.
Corner of secs. 4 and 5, T. 8 N., R. 13 W., and sec. 32, T. 9 N., R. 13 W.....	10 35.20	52 32.60	do.....	Do.
Corner of secs. 5, 6, 7, and 8, T. 16 N., R. 13 W.....	51 55.50	51 42.00	do.....	Do.
Southwest corner of sec. 4, T. 12 N., R. 13 W.....	30 43.30	52 06.40	do.....	Do.
	39°-40°	88°-89°		
Casey.....	39 13 33.42	88 01 07.18	do.....	Do.
Hunt City.....	03 58.76	00 57.21	do.....	Do.

ILLINOIS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40° ° ' "	88°-89° ° ' "		
Lynn Grove.....	39 58 09.97	88 06 36.56	L. S.	Final Rept.
Mattoon.....	29 10.00	23 08.00	do	Do.
Oakland.....	42 31.90	02 35.30	do	Do.
Westfield.....	27 15.94	02 41.66	do	Do.
Methodist church, high steeple.....	27 21.40	00 01.80	do	Do.
Corners of T. 18 N., R. 10 E.; T. 17 N., R. 10 E.; T. 17 N., R. 9 E., and T. 18 N., R. 9 E.	58 03.40	07 24.00	do	Do.
Corner secs. 25, 26, 35, and 36, T. 12 N., R. 10 E.	26 58.70	02 43.00	do	Do.
Land survey mark $\frac{1}{2}$ mile west of cor- ner of secs. 25, 26, 35, and 36, T. 15 N., R. 10 E.	42 38.20	02 59.00	do	Do.
NE. corner sec. 18, T. 9 N., R. 11 E.	13 57.40	00 33.60	do	Do.
NE. corner sec. 7, T. 7 N., fractional R. 11 E.	04 08.20	01 25.80	do	Do.
NW. corner sec. 7, T. 7 N., R. 14 W.	04 08.30	01 25.90	do	Do.
	39°-40° ° ' "	90°-91° ° ' "		
Bellevue.....	39 21 53.20	90 47 39.66	Miss. R. C.	Rept. '84.
Hamburg.....	14 08.76	43 04.64	do	Do.
Long.....	28 49.67	55 27.58	do	Do.
Peets.....	06 18.90	39 52.86	do	Do.
Wilson.....	02 23.54	40 32.35	do	Do.
	39°-40° ° ' "	91°-92° ° ' "		
Gard.....	39 39 03.99	91 06 52.91	do	Do.
Marble Head.....	50 41.52	22 22.50	do	Do.
Inner base.....	29 04.94	01 19.09	do	Do.
Outer base.....	27 46.74	02 10.35	do	Do.
Quincy.....	56 31.00	24 51.18	do	Do.
Catholic church spire.....	55 03.63	24 17.01	do	Rept. '88.
Court-house.....	56 06.57	24 28.17	do	Do.
Rockport.....	32 48.61	00 58.40	do	Rept. '84.
	38°-39° ° ' "	87°-88° ° ' "		
Claremont.....	38 45 28.75	87 59 41.54	L. S.	Final Rept.
Oblong.....	59 54.58	52 30.54	do	Do.
SE. corner sec. 32, T. 7 N., R. 13 W.	59 51.60	52 17.60	do	Do.
	38°-39° ° ' "	88°-89° ° ' "		
Check base.....	38 48 20.73	88 01 58.29	do	Do.
Denver.....	46 18.16	12 44.38	do	Do.
Dundas, tower Baptist church.....	50 06.10	05 03.60	do	Do.
East base.....	51 44.29	01 35.77	do	Do.
Mound.....	54 08.38	03 24.15	do	Do.
Olney:				
Tower schoolhouse, corner of Kitchell avenue and Church street.	43 42.00	05 12.60	do	Do.
Dome of court-house.....	43 50.60	05 08.70	do	Do.
Spire Immanuel's kirche.....	43 42.80	04 53.50	do	Do.
Onion Hill.....	48 57.72	10 27.97	do	Do.
Parkersburg.....	34 51.73	01 49.66	do	Do.
St. Marie, Catholic church.....	55 56.70	01 30.90	do	Do.
West base.....	51 38.76	06 09.04	do	Do.
Corner secs. 15, 16, 21, 22, T. 4 N., R. 9 E.	46 28.70	12 22.10	do	Do.
Corner secs. 19, 30, T. 2 N., R. 11 E., and secs. 24, 25, T. 2 N., R. 10 E.	35 07.20	02 18.60	do	Do.
NW. corner sec. 29, T. 4 N., R. 14 W.	45 42.50	00 11.90	do	Do.
German Reformed church, in sec. 6, T. 4 N., R. 11 E.	48 21.10	01 59.00	do	Do.
SW. corner NW. $\frac{1}{4}$ sec. 6, T. 4 N., R. 11 E.	48 46.80	02 18.90	do	Do.
NE. corner sec. 2, T. 4 N., R. 9 E.	49 03.50	10 08.40	do	Do.
NE. corner sec. 23, T. 5 N., R. 10 E.	51 50.80	03 25.50	do	Do.
NE. corner sec. 21, T. 5 N., R. 10 E.	51 47.90	05 41.20	do	Do.
NW. corner sec. 19, T. 5 N., R. 11 E.	51 51.90	02 18.40	do	Do.
Corner secs. 1, 2, 11, 12, T. 5 N., R. 10 E.	53 37.10	03 25.20	do	Do.
	38°-39° ° ' "	89°-90° ° ' "		
Reagan.....	38 01 29.48	89 59 08.01	do	Do.
	38°-39° ° ' "	90°-91° ° ' "		
Alton.....	38 53 30.96	90 11 35.62	Miss. R. C.	Rept. '84.
Catholic church.....	53 25.88	10 39.34	do	Rept. '88.
Schoolhouse, No. 5.....	53 31.77	10 12.27	do	Do.
Bocan.....	22 13.48	15 38.69	do	Rept. '84.
Brewerville.....	03 35.35	03 23.89	do	Do.
Cahill.....	59 24.38	40 20.75	do	Do.
Calhoun.....	55 26.78	34 35.83	do	Do.
Clark Mound.....	34 45.75	04 13.97	do	Do.
County Line.....	06 42.21	07 21.36	do	Do.
Droego.....	58 44.77	37 23.26	do	Do.

ILLINOIS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39°	90°-91°		
	° ' "	° ' "		
Dryer	38 20 06.33	90 11 55.71	Miss. R. C	Rept. '84.
Eagle Nest	56 04.97	18 40.13	do	Do.
Elsah	57 20.64	22 10.12	do	Do.
Gesler	50 51.51	06 26.25	do	Do.
Glass Works	53 02.06	10 29.84	do	Do.
Gillan	49 36.43	06 32.02	do	Do.
Grafton	58 22.48	27 08.82	do	Do.
Gummershimer	25 43.98	13 42.67	do	Do.
Hop Hollow	54 41.55	13 13.21	do	Do.
Hull	85 11.39	14 09.35	do	Do.
Keel	56 58.38	39 04.41	do	Do.
Kidd	10 22.49	12 58.13	do	Do.
Moore	48 08.12	07 05.82	do	Do.
Point Landing	54 43.53	31 44.55	do	Do.
Pettingill	46 16.76	08 50.56	do	Do.
Reihl	56 12.34	16 40.01	do	Do.
Ringering	51 32.91	07 48.91	do	Do.
Rivermouth	58 21.92	29 41.17	do	Do.
Russell	52 31.18	08 41.63	do	Do.
Salt Bluff	18 35.65	18 05.65	do	Do.
Sawmill	53 55.24	12 10.29	do	Do.
Seechtig	43 03.85	08 50.74	do	Do.
Starr	56 29.12	20 06.18	do	Do.
Sugarloaf	42 05.33	00 28.91	do	Do.
Thompson	58 43.32	32 28.42	do	Do.
Weisenborn	14 24.24	16 28.40	do	Do.
	37°-38°	89°-90°		
	° ' "	° ' "		
Atherton	37 07 23.82	89 22 43.05	do	Do.
Big Muddy	34 32.97	26 08.67	do	Do.
Bluff Lake	25 17.94	20 42.20	do	Do.
Burnham	08 31.43	24 32.43	do	Do.
Chester	54 09.65	48 43.55	do	Do.
Chester, church spire	54 55.26	49 21.22	do	Rept. '88.
Clear Creek	19 56.75	22 44.84	do	Rept. '84.
Day	14 00.04	27 14.93	do	Do.
Dickey	04 08.17	14 43.21	do	Do.
Fountain Bluff	41 36.77	30 00.16	do	Do.
Goose Island	05 35.96	22 58.78	do	Do.
Kaskaskia	57 41.83	55 07.40	do	Rept. '88.
Lassar	11 05.83	26 16.30	do	Rept. '84.
Manskeer	51 54.74	44 40.35	do	Do.
Murray	04 59.32	15 55.00	do	Do.
Nimbus	03 09.04	13 02.69	do	Do.
North base	02 21.94	11 31.84	do	Do.
O'Harrah	49 21.42	38 41.57	do	Do.
Powers Island	07 26.46	24 39.71	do	Do.
Promised Land	05 10.41	20 54.05	do	Do.
Rich	30 37.42	25 58.33	do	Do.
Santa Fe	10 05.16	25 28.60	do	Do.
Scudder	04 25.09	18 35.23	do	Do.
Sexton	15 05.07	26 42.99	do	Do.
South base	01 28.97	11 23.19	do	Do.
Spiese Mill	05 29.90	17 59.58	do	Do.
Swallow Rock	41 31.23	24 19.67	do	Do.
Thebes	12 30.91	27 15.55	do	Do.
Worthen	46 13.45	28 24.07	do	Do.
	36°-37°	89°-90°		
	° ' "	° ' "		
Cairo	36 59 47.99	89 09 31.20	L. S.	Final Rept.

MICHIGAN.

	48°-49°	88°-89°		
	° ' "	° ' "		
Isle Royale	48 07 43.58	88 33 37.91	L. S.	Final Rept.
Light-house	05 23.60	34 45.60	do	Do.
	47°-48°	87°-88°		
Stannard Rock, day beacon	47 10 37.70	87 13 23.10	do	Do.
Vulcan	26 46.65	47 38.17	do	Do.
	47°-48°	88°-89°		
Franklin shaft house	47 08 33.40	88 34 10.20	do	Do.
Traverse Point	08 42.06	13 59.86	do	Do.
Wheat Kate	04 20.27	39 45.21	do	Do.
	46°-47°	85°-86°		
	° ' "	° ' "		
Biddle Point	46 04 32.01	85 22 41.20	do	Do.
Manitou Payment	01 47.76	05 15.61	do	Do.

MICHIGAN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	46°-47°	86°-87°		
Divide	46 21 41.12	86 39 37.71	L. S.	Final Rept.
Grand Island	31 43.34	41 35.49	do	Do.
Manistique	08 31.57	35 55.05	do	Do.
Mud Lake	19 14.00	48 24.45	do	Do.
Shelter Bay	28 17.93	59 16.95	do	Do.
Sturgeon	02 26.07	41 10.95	do	Do.
N.W. corner of NE. $\frac{1}{4}$ sec. 16, T. 42 N., R. 19 W.	02 31.40	41 17.40	do	Do.
NE. corner sec. 27, T. 46 N., R. 19 W.	21 44.00	39 27.70	do	Do.
SE. corner sec. 4, T. 45 N., R. 20 W.	19 06.50	48 13.90	do	Do.
	46°-47°	87°-88°		
Baldwin	46 32 57.85	87 35 05.25	G. S.	Bull. 122
Carp	30 06.70	25 05.84	do	Do.
Dexter	30 02.57	47 33.91	do	Do.
F	28 18.28	36 55.47	do	Do.
Granite Island	43 15.47	24 41.29	L. S.	Final Rept.
Light-house	43 15.00	24 43.70	do	Do.
Huron Island light-house	57 47.70	59 56.40	do	Do.
Huron Mountains	52 42.30	55 17.59	do	Do.
Ives Hill	49 26.19	50 05.66	do	Do.
Marquette:				
Light-house	32 47.90	22 34.70	do	Do.
Methodist church spire	32 43.40	23 31.70	do	Do.
City hall dome	32 30.00	23 47.60	do	Do.
Mount Mesnard	30 48.34	23 59.23	do	Do.
Morgan	31 48.26	30 55.32	G. S.	Bull. 122.
Saginaw	27 41.10	43 00.52	do	Do.
Triloba	36 17.94	29 21.83	L. S.	Final Rept.
	46°-47°	88°-89°		
Crebassa	46 59 00.52	88 24 18.17	do	Do.
Middle	55 55.09	14 22.75	do	Do.
North base	56 48.01	26 59.46	do	Do.
Portage River light-house	58 41.10	24 50.70	do	Do.
Quaquaming	52 20.23	22 21.79	do	Do.
South base	52 17.76	29 16.75	do	Do.
	46°-47°	89°-90°		
Ontonagon County light-house	46 52 27.60	89 19 33.40	do	Do.
Porcupine Mountain	47 01.05	43 50.84	do	Do.
	45°-46°	84°-85°		
Beaver Tail	45 57 56.72	84 10 15.24	do	Do.
Bois Blanc Island	46 19.12	21 21.47	do	Do.
East base	45 22.14	42 02.99	do	Do.
Gros Cap	52 57.81	50 06.98	do	Do.
Mackinac Island	51 28.73	36 58.03	do	Do.
Mast	34 28.44	08 25.89	do	Do.
Pointe aux Chênes	55 39.82	54 48.49	do	Do.
Pointe Fuyard	55 58.07	22 48.77	do	Do.
Pointe St. Martin	58 10.21	31 55.29	do	Do.
Rabbit Back	55 17.84	43 18.97	do	Do.
Round Island astronomical station	50 06.81	36 44.60	do	Do.
St. Ignace	51 09.12	43 36.09	do	Do.
Spectacle Reef	46 05.02	08 10.73	do	Do.
West base	47 13.80	46 22.40	do	Do.
	45°-46°	85°-86°		
Beaver Island	45 36 25.56	85 29 49.27	do	Do.
Cathend	10 58.09	37 05.65	do	Do.
Garden Island	49 19.46	31 13.82	do	Do.
Gull Island	42 09.24	50 00.32	do	Do.
Hat Island	49 01.87	17 57.18	do	Do.
High Island	43 54.35	41 01.50	do	Do.
Middle Village	34 42.39	06 13.43	do	Do.
North Fox	28 09.94	46 26.25	do	Do.
North Manitou	03 51.52	59 44.32	do	Do.
Pine River	19 55.73	14 50.43	do	Do.
Point Patterson	58 04.29	39 15.18	do	Do.
Seul Choix	55 14.69	54 40.40	do	Do.
Scott Point	57 34.63	41 44.46	do	Do.
South Fox	24 58.05	51 37.49	do	Do.
	45°-46°	86°-87°		
Boyer Bluff	45 25 12.81	86 56 11.49	do	Do.
Burnt Bluff	41 09.73	42 39.83	do	Do.
Fishdam	57 37.33	29 34.19	do	Do.
Northwest Manitou	09 23.00	02 46.52	do	Do.
Peninsula Point light-house	40 04.60	58 02.40	do	Do.
Pine Hill	51 36.96	53 55.48	do	Do.
Rock Island	24 53.11	49 00.00	do	Do.
South Manitou	00 35.24	09 01.74	do	Do.

MICHIGAN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	45°-46°	87°-88°		
Bark River.....	45 34 30.78	87 14 25.94	L. S.	Final Rept.
Cedar River.....	25 48.62	19 35.05	do	Do.
Door Bluff.....	17 46.97	03 54.60	do	Do.
Ford River.....	41 05.34	06 01.35	do	Do.
Do.....	41 12.16	06 09.40	do	Do.
Menomonee, new primary triangulation station.	05 12.78	35 27.75	do	Do.
Rochereau.....	17 41.23	26 12.51	do	Do.
SE. corner sec. 12, T. 38 N., R. 23 W....	41 12.90	06 03.40	do	Do.
	44°-45°	82°-83°		
Pointe aux Barques.....	44 04 05.58	82 57 32.52	do	Do.
	44°-45°	83°-84°		
Big Charity.....	44 02 17.46	83 26 27.97	do	Do.
Charity light-house.....	02 16.30	26 27.70	do	Do.
Gravelly Point.....	02 58.79	34 44.06	do	Do.
Little Charity.....	00 08.81	28 02.72	do	Do.
Mason Creek.....	11 39.56	33 20.34	do	Do.
Pointe au Sable.....	20 17.79	20 03.64	do	Do.
Tawas light-house.....	15 35.40	26 37.70	do	Do.
Tawas Point.....	15 38.14	26 29.19	do	Do.
Whitestone.....	06 24.72	33 54.33	do	Do.
	44°-45°	85°-86°		
Pyramid Point.....	44 58 04.40	85 55 28.16	do	Do.
	44°-45°	86°-87°		
Pointe aux Bees Scies.....	44 41 48.58	86 14 59.36	do	Do.
Sleeping Bear.....	52 22.69	04 08.05	do	Do.
	43°-44°	83°-84°		
East base.....	43 54 55.71	83 19 10.78	do	Do.
Fish Point.....	42 49.02	31 39.49	do	Do.
Flint:				
Intersection of Keasley and East streets.	01 11.71	41 06.45	do	Do.
Intersection of Keasley and Saginaw streets.	01 01.20	41 29.30	do	Do.
Lapeer:				
Intersection of Calhoun and Liberty streets.	03 08.60	18 53.50	do	Do.
Intersection of Calhoun and Franklin streets.	03 07.30	18 53.40	do	Do.
Nyaquonk.....	47 24.74	55 32.76	do	Do.
Oak Point.....	58 29.77	15 40.03	do	Do.
Observatory.....	54 39.79	22 51.00	do	Do.
Pine River.....	58 42.70	51 13.62	do	Do.
Pointe aux Gres.....	59 27.88	40 38.96	do	Do.
Quannakissee.....	37 03.81	44 10.09	do	Do.
Saginaw River light-house.....	38 37.80	51 17.50	do	Do.
Saginaw:				
Court-house, east corner.....	25 05.70	57 50.30	do	Do.
Jail, south corner.....	25 08.40	57 48.40	do	Do.
Intersection of Adams and Washington streets.	25 02.00	57 50.20	do	Do.
Sebonin.....	51 32.16	26 57.65	do	Do.
West base.....	54 39.15	23 56.71	do	Do.
Wild fowl.....	51 24.53	21 28.39	do	Do.
NE. corner sec. 26, T. 12 N., R. 4 E....	25 27.10	57 25.30	do	Do.
SW. corner of SW. 1/4 of sec. 32, T. 8 N., R. 10 E.	03 26.30	18 55.60	do	Do.
St. Johns:	43°-44°	84°-85°		
Intersection of axes of State and Ottawa streets.	43 00 02.60	84 33 47.00	do	Do.
Corner stone at northwest corner of court-house.	00 00.10	33 37.20	do	Do.
Intersection of axes of Clinton avenue and State street.	00 02.39	33 36.00	do	Do.
St. Louis, intersection of Washington and Mill streets.	24 33.00	36 24.70	do	Do.
NW. corner sec. 16, T. 7 N., R. 2 W....	00 02.80	33 51.10	do	Do.
SW. corner sec. 19, T. 12 N., R. 2 W....	24 33.00	36 19.00	do	Do.
Stanton:	43°-44°	85°-86°		
County record office, northwest corner.	43 17 29.00	85 04 58.40	do	Do.
Intersection of Main and Camburn streets.	17 30.70	04 52.50	do	Do.
SW. corner sec. 31, T. 11 N., R. 6 W....	17 30.70	05 03.20	do	Do.
SW. corner sec. 18, T. 12 N., R. 12 W....	25 26.10	48 10.40	do	Do.
	42°-43°	83°-84°		
Barker.....	42 07 39.50	83 08 26.30	do	Do.
Biddle.....	08 02.90	08 17.80	do	Do.

MICHIGAN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	83°-84°		
Brodhead	42 09 30.50	83 08 15.90	L. S.	Final Rept.
Detroit:				
Astronomical post (east pier) in lake observatory.	20 00.80	03 07.40	do	Do.
Intersection of axes of Washington and Grand River avenues.	20 01.40	03 04.50	do	Do.
Spire St. Paul's Episcopal church, on northeast corner of Congress and Shelby streets.	19 45.90	02 53.60	do	Do.
Tower of fire-engine house on Russell street.	20 41.00	02 21.50	do	Do.
East pier lake survey observatory.	19 58.65	03 03.60	do	Do.
Ecorse	15 21.40	08 09.50	do	Do.
Field	17 34.20	06 23.10	do	Do.
Howell:				
Astronomical post	36 00.24	55 44.25	Engr. Corps..	Rept. '76.
Intersection Higgins and Monroe streets.	36 11.18	55 50.85	L. S.	Final Rept.
Intersection of axes of Grand River and Higgins streets.	36 23.20	55 42.60	do	Do.
Southwest corner of court-house.	36 24.50	55 41.40	do	Do.
North Wyandotte	12 49.20	08 48.50	do	Do.
Pointe Monillée	00 49.60	10 53.70	do	Do.
Pontiac:				
Methodist Episcopal church spire.	38 03.20	17 20.50	do	Do.
Intersection of axes of Saginaw and Church streets.	38 06.70	17 22.60	do	Do.
Court-house cupola	38 22.00	17 30.00	do	Do.
SE. corner sec. 23, T. 3 N., R. 10 E.	38 06.95	17 15.60	do	Do.
River Rouge	16 15.40	07 34.90	do	Do.
Tecumseh Presbyterian church	00 15.00	56 54.60	do	Do.
Sugar Island	05 25.40	08 35.40	do	Do.
NW. corner sec. 1, T. 2 N., R. 4 E.	35 59.60	56 01.60	do	Do.
SE. corner, sec. 29, T. 3 N., R. 10 E.	38 07.00	17 15.50	do	Do.
	42°-43°	84°-85°		
Bunday	42 03 16.04	84 27 42.10	do	Do.
Charlotte:				
Intersection of axes of Oliver and Stoddard streets.	33 58.95	50 01.20	do	Do.
Jail, northwest corner	33 52.40	50 13.90	do	Do.
Corunna:				
Intersection of axes of McArthur street and Shiawassee avenue.	58 52.00	07 02.90	do	Do.
Intersection of axes of Shiawassee avenue and Flint road.	58 37.92	07 02.85	do	Do.
Court-house, southwest corner ..	58 54.30	07 00.80	do	Do.
Northeast corner schoolhouse on corner of State street and Shiawassee avenue.	58 47.50	07 05.00	do	Do.
Jackson:				
Cornwell & Emerson's chemical works, brick chimney.	15 45.50	24 23.90	do	Do.
Hibbard House, northeast corner.	14 48.90	24 13.70	do	Do.
First Methodist Episcopal church spire.	14 50.00	24 39.60	do	Do.
Intersection of axes of Main and Mechanics streets.	14 49.40	24 19.20	do	Do.
Michigan State Prison, main tower	14 34.70	24 36.60	do	Do.
Intersection of axes of Main and Jackson streets.	14 49.40	24 36.00	do	Do.
Lansing:				
Dome of capitol	43 56.10	33 23.20	do	Do.
Intersection of Washtenaw and Washington avenues.	43 47.60	33 11.20	do	Do.
Intersection of Michigan and Capitol avenues.	43 55.79	33 16.95	do	Do.
Marshall:				
Intersection of Kalamazoo avenue and Mansion street.	16 24.70	57 49.20	do	Do.
Court-house, northwest corner ..	16 16.70	57 47.00	do	Do.
NE. corner sec. 16, T. 4 N., R. 2 W.	44 21.90	32 37.40	do	Do.
NE. corner sec. 13, T. 2 N., R. 5 W.	34 04.30	50 10.10	do	Do.
NW. corner sec. 2, T. 3 S., R. 1 W.	14 49.30	24 12.40	do	Do.
NW. corner sec. 25, T. 2 S., R. 6 W.	16 27.60	57 49.20	do	Do.
SE. corner sec. 8, T. 5 S., R. 1 W.	03 55.00	29 00.40	do	Do.
SW. corner sec. 28, T. 7 N., R. 3 E.	58 11.20	07 40.30	do	Do.
Allegan:	42°-43°	85°-86°		
County record building, northwest corner.	42 31 44.70	85 51 08.50	do	Do.

MICHIGAN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	85°-86°		
Allegan—Continued.	° ' "	° ' "		
Intersection of axes of Walnut and Trowbridge streets.	42 31 45.60	85 51 09.70	L. S.	Final Rept.
Northwest corner county building, public square.	31 44.74	51 08.55	do.....	Do.
Grand Rapids:				
SW. corner of NW. $\frac{1}{4}$ of sec. 30, T. 7 N., R. 11 W., at intersection of Fulton and Division streets.	57 47.00	40 06.20	do.....	Do.
Intersection of axes of Fulton street and Jefferson avenue.	57 47.10	39 52.90	do.....	Do.
Hastings:				
Intersection of Church and State streets.	38 54.13	17 17.55	do.....	Do.
Court-house, southwest corner...	38 51.60	17 20.40	do.....	Do.
Intersection of axes of Broadway and Court streets.	38 50.70	17 23.00	do.....	Do.
Ionia:				
Intersection of axes of Main and Kidd streets.	58 51.90	03 47.00	do.....	Do.
Intersection of axes of Main and First streets.	58 51.39	03 53.25	do.....	Do.
Southeast corner of corner stone of projected soldiers' monument.	58 52.90	03 49.70	do.....	Do.
Kalamazoo:				
Intersection of axes of South and Church streets.	17 24.60	35 07.30	do.....	Do.
Intersection of axes of South and Park streets.	17 24.46	35 11.70	do.....	Do.
Jail, southwest corner.....	17 28.40	35 05.70	do.....	Do.
Paw Paw, intersection of axes of Main and Van Buren streets.	13 01.70	53 03.40	do.....	Do.
NW. corner sec. 17, T. 3 N., R. 8 W.	30 11.60	17 23.30	do.....	Do.
NW. corner sec. 28, T. 2 N., R. 13 W.	32 10.50	51 32.10	do.....	Do.
SE. corner of NE. $\frac{1}{4}$ of sec. 19, T. 7 N., R. 6 W.	58 42.10	03 18.60	do.....	Do.
SW. corner sec. 7, T. 3 N., R. 13 W.	12 55.00	52 40.40	do.....	Do.
SW. corner sec. 15, T. 2 S., R. 11 W.	17 21.00	35 20.10	do.....	Do.
	42°-43°	86°-87°		
St. Joseph, Congregational church spire.	42 06 19.00	86 29 00.10	do.....	Do.
SW. corner sec. 36, T. 1 N., R. 17 W.	25 03.80	15 56.30	do.....	Do.
	41°-42°	83°-84°		
Bedford	41 49 11.15	83 37 06.14	do.....	Do.
Blissfield	51 08.39	48 27.86	do.....	Do.
Dundee	55 28.08	40 13.93	do.....	Do.
Middle Sister	50 53.03	00 07.80	do.....	Do.
Monroe	55 04.51	28 16.17	do.....	Do.
Court-house steeple	54 48.65	23 46.35	do.....	Do.
Methodist Episcopal church spire.	54 52.40	23 56.60	do.....	Do.
Presbyterian church spire	54 53.40	23 51.40	do.....	Do.
German Lutheran church spire	54 43.40	23 49.10	do.....	Do.
Light-house	53 27.70	19 53.20	do.....	Do.
Raisin	57 11.50	55 30.14	do.....	Do.
Stony Point	55 53.86	15 51.33	do.....	Do.
Corner of secs. 14, 15, 22, and 23, T. 6 S., R. 4 E.	56 57.10	55 34.30	do.....	Do.
Corner of secs. 22, 23, 26, and 27, T. 7 S., R. 5 E.	50 57.00	48 26.90	do.....	Do.
Corner of secs. 25, 26, 35, and 36, T. 6 S., R. 6 E.	55 28.20	40 18.70	do.....	Do.
NE. corner sec. 5, T. 8 S., R. 7 E.	49 19.80	36 32.40	do.....	Do.
	41°-42°	84°-85°		
Adrian, flagstaff on engine house.....	41 53 45.40	84 01 36.80	do.....	Do.
Fairfield	48 56.12	02 37.00	do.....	Do.
Hillsdale	55 14.25	39 01.08	do.....	Do.
Court-house dome	55 15.40	37 54.60	do.....	Do.
College clock tower	55 57.00	38 02.00	do.....	Do.
Hudson Congregational church spire.	51 12.60	21 25.80	do.....	Do.
Pittsford	49 33.25	29 00.51	do.....	Do.
Prattville church	46 50.10	24 00.10	do.....	Do.
Quincy	57 40.01	55 20.05	do.....	Do.
Reading	50 06.06	44 31.56	do.....	Do.
Schoolhouse cupola	50 16.20	44 45.40	do.....	Do.
Colby Winger Co. factory, southeast corner.	50 07.10	44 33.20	do.....	Do.
First Baptist church spire	50 18.50	44 46.80	do.....	Do.
Wheatland	55 06.32	27 19.48	do.....	Do.
Woodstock	59 12.55	15 35.76	do.....	Do.

MICHIGAN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42° ° ' "	84°-85° ° ' "		
Corner of secs. 19, 20, 29, and 30, T. 6 S., R. 1 E.	41 55 38.60	84 27 34.20	L. S.	Final Rept.
Corner of secs. 22, 23, 26, and 27, T. 7 S., R. 4 W.	50 22.70	44 53.20	do	Do.
NE. corner sec. 3, T. 8 S., R. 3 E.	49 00.20	02 30.10	do	Do.
NE. corner sec. 4, T. 6 S., R. 1 E.	59 11.90	14 46.60	do	Do.
NE. corner sec. 26, T. 7 S., R. 4 W.	50 22.40	43 42.60	do	Do.
NW. corner sec. 27, T. 6 S., R. 3 W.	55 38.10	39 05.00	do	Do.
SE. corner sec. 36, T. 7 S., R. 2 W.	48 41.00	28 34.80	do	Do.
SW. corner of SW. ¼ of sec. 7, T. 6 S., R. 5 W.	57 22.70	55 55.70	do	Do.
SW. corner of NW. ¼ of sec. 27, T. 6 S., R. 3 W.	55 11.90	39 05.10	do	Do.
SW. corner of NW. ¼ of sec. 29, T. 6 S., R. 1 W.	55 12.70	27 34.20	do	Do.
	41°-42°	85°-86°		
Bronson	41 51 22.46	85 14 38.98	do	Do.
Calvin	50 10.38	55 27.18	do	Do.
Constantine schoolhouse, north cupola	50 07.10	40 01.10	do	Do.
Porter	49 22.48	46 00.10	do	Do.
Sherman	50 48.58	27 12.45	do	Do.
Sturgis:				
Presbyterian church spire	48 03.50	25 08.50	do	Do.
Methodist Episcopal church spire.	48 01.20	25 08.80	do	Do.
Schoolhouse	48 05.60	25 11.20	do	Do.
Three Rivers:				
Tall steeple	56 54.20	38 04.50	do	Do.
Church	56 59.00	38 06.30	do	Do.
White Pigeon:				
First Baptist church	47 47.40	38 35.40	do	Do.
Woolen mill	47 41.90	38 28.90	do	Do.
SW. corner of SW. ¼ of sec. 16, T. 7 S., R. 8 W.	51 16.10	14 36.00	do	Do.
SW. corner of SE. ¼ of sec. 22, T. 7 S., R. 10 W.	50 21.40	27 28.80	do	Do.
SW. corner of NW. ¼ of sec. 27, T. 7 S., R. 14 W.	49 57.70	56 07.30	do	Do.
SW. corner of NW. ¼ of sec. 36, T. 7 S., R. 13 W.	48 59.40	46 47.40	do	Do.
	41°-42°	86°-87°		
Bald Tom	41 54 19.34	86 35 59.45	do	Do.
Bertrand	46 44.96	22 40.33	do	Do.
Milton	48 09.36	10 29.74	do	Do.
Corner secs. 4, 5, 8, and 9, T. 8 S., R. 16 W.	47 49.80	11 10.30	do	Do.
Corner secs. 14, 15, 22, and 23, T. 8 S., R. 18 W.	46 34.90	22 39.70	do	Do.
SE. corner sec. 35, T. 6 S., R. 20 W.	53 58.60	35 23.90	do	Do.

WISCONSIN.

	47°-48° ° ' "	90°-91° ° ' "		
Outer Island	47 04 17.09	90 26 27.25	L. S.	Final Rept.
Bayfield County:	46°-47°	90°-91°		
Light-house on Raspberry Island	46 58 12.80	90 48 16.70	do	Do.
Light-house on Michigan Island	52 16.30	29 48.80	do	Do.
Detour	56 36.68	58 09.32	do	Do.
	46°-47°	91°-92°		
Aminicon	46 41 32.14	91 51 43.59	do	Do.
Brulé	45 17.89	35 18.79	do	Do.
Clay Banks	49 05.61	18 40.63	do	Do.
	46°-47°	92°-93°		
South base	46 42 49.44	92 01 55.13	do	Do.
	45°-46°	86°-87°		
Door County, light-house on Rock Island (Pottawatomie).	45 25 39.50	86 49 41.60	do	Do.
Boyer Bluff	25 12.74	56 11.48	do	Do.
	45°-46°	87°-88°		
Door Bluff	45 17 46.97	87 03 54.60	do	Do.
Door County, light-house on Eagle Bluff.	10 07.50	14 12.30	do	Do.
Do	12 08.20	21 53.60	do	Do.
Eagle Bluff	10 06.62	14 13.66	do	Do.
Menomonee	05 12.76	35 34.60	do	Do.

WISCONSIN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	45°-46°	87°-88°		
Oconto County :	°	°		
NE. corner sec. 3, T. 30 N., R. 23 E.	45 06 24.20	87 39 42.90	L. S.	Final Rept.
Light-house on Green Island	03 23.20	29 34.60	do	Do.
St. Croix County :	45°-46°	92°-93°		
SE. corner sec. 34, T. 31 N., R. 19 W.	45 07 21.80	92 41 24.60	do	Do.
SW. corner sec. 33, T. 31 N., R. 19 W.	07 22.10	43 52.10	do	Do.
Brown County, NW. corner sec. 25, T. 24 N., R. 21 E.	44°-45°	87°-88°		
	44 31 53.70	87 54 25.20	do	Do.
Bruce	31 39.37	53 58.14	do	Do.
Debroux	50 19.43	36 28.84	do	Do.
Gales	51 14.48	51 26.86	do	Do.
Little Tail	41 14.76	59 23.07	do	Do.
Long Tail Point	35 49.10	58 59.20	do	Do.
Peshigo	59 06.73	37 43.23	do	Do.
Red Banks	36 40.26	51 54.19	do	Do.
Red River	45 40.00	41 07.07	do	Do.
South Egg	59 20.75	21 05.79	do	Do.
	44°-45°	88°-89°		
Appleton, St. Lawrence University, center of dome	44 15 39.20	88 23 58.80	do	Do.
Calumet	10 12.64	16 45.78	do	Do.
County, NW. corner sec. 31, T. 20 N., R. 19 E.	10 12.80	17 02.20	do	Do.
Clayton	12 04.07	32 41.11	do	Do.
East Depere	24 19.52	00 27.38	do	Do.
Fort Howard	30 30.28	02 34.05	do	Do.
Freedom	20 06.61	22 00.92	do	Do.
Green Bay, court-house dome	30 50.90	00 48.00	do	Do.
Oneida	31 36.53	10 09.68	do	Do.
Outagamie County, SE. corner sec. 35, T. 21 N., R. 17 E.	14 38.70	23 43.70	do	Do.
Oshkosh	01 13.64	32 28.14	do	Do.
Stockbridge	06 16.17	19 26.12	do	Do.
West Depere	24 12.73	16 16.02	do	Do.
Winnebago County, SW. corner sec. 13, T. 20 N., R. 16 E.	11 58.90	32 39.30	do	Do.
Monroe County :	44°-45°	90°-91°		
NE. corner sec. 1, T. 18 N., R. 1 W.	44 04 26.60	90 25 56.70	do	Do.
SE. corner sec. 13, T. 18 N., R. 1 W.	01 49.60	25 56.00	do	Do.
Valley Junction, SW. corner sec. 31, T. 21 N., R. 3 E.	14 57.24	25 56.70	do	Do.
Milwaukee :	43°-44°	87°-88°		
Court-house, axis of figure of Justice	43 02 31.80	87 54 18.40	do	Do.
Catholic church spire	02 30.50	54 15.00	do	Do.
	43°-44°	88°-89°		
Brown church	43 16 42.19	88 52 53.63	C. & G. S.	
Canty	23 19.58	04 37.41	G. S.	Bull. 122.
Delafield	01 56.97	23 34.00	L. S.	Final Rept.
Do	01 59.46	23 29.35	C. & G. S.	
Dodge County :				
SW. corner of SE. ¼ sec. 24, T. 12 N., R. 15 E.	28 24.50	44 01.90	L. S.	Do.
NW. corner of SW. ¼ sec. 3, T. 9 N., R. 16 E.	16 36.00	35 48.60	do	Do.
SW. corner sec. 3, T. 9 N., R. 16 E.	16 09.70	35 48.30	do	Do.
SE. corner sec. 33, T. 12 N., R. 16 E.	27 28.60	34 52.60	do	Do.
NW. corner sec. 3, T. 13 N., R. 16 E.	37 56.70	34 55.10	do	Do.
SE. corner of SW. ¼ sec. 33, T. 11 N., R. 17 E.	22 14.30	29 29.00	do	Do.
SE. corner sec. 32, T. 11 N., R. 17 E.	22 14.30	30 04.70	do	Do.
East base	42 39.67	28 42.05	do	Do.
Eldorado	52 20.81	34 54.97	do	Do.
Erin	14 39.00	19 39.88	G. S.	Bull. 122.
Do	14 41.49	19 35.18	C. & G. S.	
Fond du Lac County :				
Spire of Catholic church in Byron Township	40 29.00	27 02.50	L. S.	Final Rept.
NE. corner sec. 10, T. 14 N., R. 16 E.	42 19.00	33 47.30	do	Do.
SW. corner sec. 10, T. 16 N., R. 16 E.	51 54.30	35 03.80	do	Do.
NW. corner SW. ¼ sec. 34, T. 14 N., R. 16 E.	38 22.50	34 54.90	do	Do.
SW. corner sec. 34, T. 14 N., R. 16 E.	37 56.60	34 54.30	do	Do.
NW. corner sec. 4, T. 14 N., R. 17 E.	43 08.60	28 56.10	do	Do.
SW. corner sec. 20, T. 16 N., R. 18 E.	50 01.70	22 55.40	do	Do.
Holl	20 41.62	15 51.27	G. S.	Bull. 122.
Horicon	28 11.07	34 54.84	L. S.	Final Rept.

WISCONSIN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	43°-44°	88°-89°		
Jefferson :	° ' "	° ' "		
Catholic church.....	43 00 20.30	88 46 41.19	C. & G. S.....	
Methodist Episcopal church.....	00 27.10	48 05.67	do.....	
Kewaskum.....	29 36.18	13 33.43	G. S.....	Bull. 122.
Lebanon.....	16 37.61	35 29.84	C. & G. S.....	
Do.....	16 35.13	35 34.51	L. S.....	Final Rept.
Minnesota Junction.....	28 28.45	43 47.54	do.....	Do.
New Lisbon.....	08 16.85	11 57.32	do.....	Do.
Oakfield.....	38 20.04	34 36.51	do.....	Do.
Springvale.....	46 05.32	43 54.06	do.....	Do.
Taycheedah.....	50 06.63	22 19.17	do.....	Do.
Watertown, church.....	11 43.03	43 39.49	C. & G. S.....	
Waupun.....	37 45.11	43 49.81	L. S.....	Do.
West base.....	41 50.58	34 06.62	do.....	Do.
Woodland.....	22 37.90	28 51.60	G. S.....	Bull. 122.
Do.....	22 14.71	29 50.48	L. S.....	Final Rept.
	43°-44°	89°-90°		
Arena, church belfry.....	43 09 53.11	89 54 46.38	C. & G. S.....	
Arlington.....	19 42.84	18 14.00	do.....	
Blue Mounds.....	01 43.57	51 04.60	do.....	
Burke.....	07 01.65	16 48.41	do.....	
Courtland.....	30 04.98	06 37.52	do.....	
Deerfield, church.....	02 29.06	06 21.96	do.....	
Devils Lake.....	24 03.37	43 41.59	do.....	
Fitz Simmons.....	25 42.56	39 10.30	do.....	
Gibraltar.....	20 37.75	35 56.06	do.....	
Insane asylum.....	08 00.13	23 48.29	do.....	
Liberty Mound.....	01 00.30	09 40.75	do.....	
McFarland, church.....	00 57.78	17 05.04	do.....	
Madison :				
Astronomic station (1873), stone.....	04 33.03	24 03.41	do.....	
Baptist church.....	04 26.44	23 01.13	do.....	
Capitol.....	04 31.42	22 58.22	do.....	
City Hall.....	04 34.43	23 04.24	do.....	
Episcopal church.....	04 28.73	23 08.96	do.....	
Congregational church.....	04 26.52	23 07.18	do.....	
Irish Catholic church.....	04 22.23	23 04.41	do.....	
Presbyterian church.....	04 40.23	23 08.53	do.....	
University.....	04 33.81	24 10.39	do.....	
Mazomanie church, white steeple.....	10 42.56	47 47.55	do.....	
Medina.....	07 36.96	02 11.84	do.....	
Norwegian church.....	00 23.86	41 24.11	do.....	
Observatory Hill.....	42 22.04	20 29.06	do.....	
Springfield.....	10 30.04	36 47.84	do.....	
St. Martin's church.....	10 55.68	35 21.23	do.....	
Stewart.....	12 01.90	56 37.26	do.....	
Sun Prairie, highest church spire.....	11 08.97	12 36.13	do.....	
Windsor.....	14 23.94	16 18.35	do.....	
	43°-44°	90°-91°		
Bear Bluff.....	43 13 04.04	90 08 35.23	do.....	
Big Hollow.....	12 45.42	05 43.04	do.....	
Brown church steeple.....	02 55.67	16 45.80	do.....	
Helena.....	09 03.44	00 30.78	do.....	
Railroad bridge, bolt.....	10 28.79	01 50.08	do.....	
Highland.....	06 06.55	21 51.28	do.....	
Catholic church.....	02 49.26	22 53.51	do.....	
Lone Rock :				
Church spire.....	11 02.75	11 57.53	do.....	
Bluff.....	09 54.20	13 00.66	do.....	
Meridian station, 2.....	07 57.51	25 43.07	do.....	
Pine Knobs.....	04 38.46	01 59.09	do.....	
Point Judas.....	13 07.82	13 53.99	do.....	
Quarry Bluff.....	12 23.38	03 26.63	do.....	
Spring Green :				
Methodist Episcopal church spire.....	10 43.38	04 05.38	do.....	
Base, east end.....	09 41.40	03 45.04	do.....	
Base, west end.....	10 46.50	06 52.10	do.....	
Wyoming.....	04 28.92	10 54.38	do.....	
	42°-43°	87°-88°		
Caledonia.....	42 45 32.89	87 56 48.43	L. S.....	Final Rept.
Kenosha, Catholic church spire.....	35 32.90	49 17.70	do.....	Do.
Racine, Methodist Episcopal church.....	43 28.70	46 56.90	do.....	Do.
Somer.....	37 10.07	52 33.60	do.....	Do.
	42°-43°	88°-89°		
Bald Bluff.....	42 50 42.76	88 36 15.73	C. & G. S.....	
Bristol.....	32 51.61	02 08.78	L. S.....	Do.
Clinton :				
Norwegian Lutheran church.....	29 37.73	50 35.04	C. & G. S.....	
Junction church.....	33 41.82	51 38.34	do.....	
Darien church.....	35 59.55	42 24.49	do.....	

WISCONSIN—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43°	88°-89°		
Dover	42 40 25.35	88 05 03.68	L. S.	Final Rept.
Geneva	37 07.79	32 08.96	C. & G. S.	
Harmony	42 34.43	55 16.83	do	Do.
New Berlin	58 17.60	11 01.80	L. S.	
Oakland	59 14.40	53 45.16	C. & G. S.	Do.
Shopiere church	34 16.69	56 12.62	do	
Waterford	47 34.91	13 50.73	L. S.	Do.
Whitewater	50 13.32	44 33.45	C. & G. S.	
Congregational church	50 05.05	44 05.54	do	Do.
Waukesha County. N.W. corner sec. 19, T. 6 N., R. 20 E.	58 25.80	11 16.30	L. S.	
Beloit:	42°-43°	89°-90°		
City school	42 30 06.17	89 01 30.66	C. & G. S.	Do.
College, main building	30 13.36	01 46.84	do	
Baptist church	30 01.65	01 53.45	do	Do.
Congregational church	30 08.13	01 35.79	do	
Memorial Hall	30 08.66	01 44.94	do	Do.
Presbyterian church	29 57.06	01 55.71	do	
Centennial, Methodist Episcopal church.	42 19.25	59 04.74	do	Do.
Church of the Disciples	42 33.71	10 49.25	do	
Edgerton church	50 13.44	04 13.89	do	Do.
Evansville, seminary	46 39.22	18 03.02	do	
Fayette	43 16.80	59 38.09	do	Do.
Fitchburg	58 45.77	26 07.65	do	
Janesville	42 47.86	03 39.79	do	Do.
Blind Institute	39 55.91	02 20.37	do	
City school	40 57.56	00 53.22	do	Do.
Magnolia	42 29.04	17 44.87	do	
Monroe:				
Methodist Episcopal church	36 08.00	38 29.52	do	Do.
Congregational church	36 15.01	38 09.72	do	
Universalist church	36 13.82	38 16.81	do	Do.
Mount Pleasant	41 30.25	29 45.78	do	
Newark	29 55.62	12 36.97	do	Do.
Baptist church	34 14.11	10 00.58	do	
Lutheran church	34 42.32	12 22.97	do	Do.
Norwegian Lutheran church	45 35.42	54 17.00	do	
Pleasant Springs	57 15.42	08 08.93	do	Do.
Plymouth	35 24.46	10 04.29	do	
Rock church	57 14.36	02 48.01	do	Do.
Union	47 28.75	12 21.88	do	
Wohlford	32 51.49	05 57.45	do	Do.
Azimuth mark	42°-43°	90°-91°		
Beetown	42 30 03.19	90 13 37.24	do	Do.
Dodgeville, church steeple	50 02.93	46 26.62	do	
Do	57 43.77	07 45.27	do	Do.
Dutch Hollow church	57 45.60	07 51.44	do	
Fennimore	41 29.60	40 49.75	do	Do.
Church	58 28.53	40 45.85	do	
Gratiot Grove	58 55.87	39 06.79	do	Do.
Harker	32 34.57	13 37.40	do	
Meridian Station No. 1	59 03.23	10 29.78	do	Do.
Mineral Point, Catholic church	45 45.28	25 30.22	do	
Mount Ida	51 34.35	11 06.10	do	Do.
Platte Mound	57 20.95	45 29.70	do	
Plattsburg, Normal School	45 55.05	24 16.53	do	Do.
Shullsburg, Catholic church	44 09.47	28 48.52	do	
Sinsinawa Mound	34 32.96	13 45.99	do	Do.
Waldwick	31 32.08	32 32.13	do	
Windmill	52 29.14	05 51.35	do	Do.
Wingville church	58 54.14	20 01.96	do	
SW. corner sec. 31, T. 1 N., R. 1 W., Grant County.	58 25.01	25 53.54	do	Do.
	30 26.40	26 44.20	L. S.	

MINNESOTA.

	47°-48°	89°-90°		
Farquhar Knob	47 52 40.18	89 59 23.77	L. S.	Final Rept.
Burlington	47°-48°	91°-92°		
East Sawteeth	47 01 49.46	91 38 29.36	do	Do.
Split Rock	23 19.02	10 15.79	do	Do.
West Sawteeth	11 16.03	23 11.01	do	Do.
	22 19.08	11 49.63	do	Do.

MINNESOTA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	46°-47° ° ' "	91°-92° ° ' "		
Buchanan	46 56 28.07	91 47 19.82	L. S.	Final Rept.
Lester	51 55.11	59 14.32	do	Do.
	46°-47°	92°-93°		
Minnesota Point, light-house	46 42 36.20	92 01 33.00	do	Do.
North base	45 27.89	04 43.26	do	Do.
Oneota	45 18.54	07 59.85	do	Do.
	45°-46°	93°-94°		
Mound View	45 05 30.53	93 10 02.11	C. & G. S.	
	44°-45°	92°-93°		
Hampton	44 36 36.74	92 56 26.73	do	
Prescott	46 40.86	45 41.59	do	
Red Wing: Spire Catholic church	33 44.64	31 49.65	L. S.	Do.
Astronomic monument				
Woodbury	54 51.97	56 38.02	C. & G. S.	
	44°-45°	93°-94°		
Buck Hill	44 43 22.90	93 17 04.84	do	
Hopkins	55 10.44	27 25.90	do	
Marcotta	48 52.32	02 56.48	do	
Prospect Park	58 06.38	12 36.28	do	
Ramsey	59 19.21	00 18.97	do	
St. Paul: North base	59 42.44	09 51.34	do	
South base	54 59.81	09 52.02	do	
SE. corner of custom-house	56 43.00	05 34.00	do	
Wallace	54 19.55	05 12.14	do	
Washburn Home	54 46.49	16 36.07	do	

IOWA.

	42°-43° ° ' "	90°-91° ° ' "		
Sherrill Mound	42 36 17.21	90 47 33.37	C. & G. S.	
	41°-42°	95°-96°		
Bluffs	41 14 32.44	95 50 35.43	Mo. R. C.	Rept. '91.
Council	16 32.75	51 09.91	do	Do.
Crescent	21 09.58	52 16.73	do	Do.
Henton	06 04.82	49 00.85	do	Do.
Loveland	30 08.67	53 16.76	do	Do.
Taylor	41 13.15	56 31.47	do	Do.
	40°-41°	91°-92°		
Boardman	40 24 30.68	91 26 23.95	Miss. R. C.	Rept. '84.
Hughes	24 38.06	24 09.13	do	Do.
Keokuk	24 34.70	22 44.81	do	Do.
Mrs. W. H. Sample's house	23 40.93	22 42.98	do	Rept. '88.
Presbyterian church spire	23 53.11	23 03.69	do	Do.
Unitarian church spire	23 49.32	22 47.62	do	Do.
Lower base	25 04.58	22 55.52	do	Rept. '84.
Upper base	25 43.51	23 16.34	do	Do.
Yellow Banks	24 24.65	29 20.13	do	Do.
	40°-41°	95°-96°		
Hamburg	40 33 20.06	95 37 40.83	Mo. R. C.	Rept. '91.
McCracken	40 27.16	42 12.33	do	Do.
Pugh	46 33.28	44 22.71	do	Do.
Quarry	56 27.62	47 10.92	do	Do.
Thurman	50 55.04	45 34.40	do	Do.

MISSOURI

	40°-41° ° ' "	91°-92° ° ' "		
Canton	40 07 46.38	91 31 19.63	Miss. R. C.	Rept. '88.
University	07 50.57	31 49.67	do	Rept. '84.
Congill	11 27.78	31 20.22	do	Do.
Fox River	21 34.82	35 20.87	do	Do.
Lagrange	02 46.88	29 58.45	do	Do.
	40°-41°	95°-96°		
Craig	40 13 00.05	95 22 43.21	Mo. R. C.	Rept. '91.
Langdon	22 29.30	31 56.12	do	Do.
Napier	02 45.22	14 37.89	do	Do.

MISSOURI—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41°	95°-96°		
Nishne	40 17 53.47	95 23 06.15	Mo. R. C.	Rept. '91.
Phelps	26 57.68	34 07.44	do.	Do.
	39°-40°	90°-91°		
Clarksville	39 22 24.42	90 54 37.25	Miss. R. C.	Rept. '84.
Kilham	01 38.90	44 57.54	do.	Do.
Knox	05 44.76	45 39.42	do.	Do.
McLean	25 03.24	59 16.52	do.	Do.
Saltpeter	15 15.73	49 37.99	do.	Do.
	39°-40°	91°-92°		
Hannibal	39 41 19.73	91 19 23.43	do.	Do.
Elevator, southeast gable	42 19.21	20 38.94	do.	Rept. '88.
Heather	47 20.42	26 15.86	do.	Rept. '84.
Louisiana	27 23.99	03 11.31	do.	Do.
Northeast corner of high school building	27 12.65	03 08.25	L. S.	Final Rept.
Southeast corner of brick residence on northwest corner Noyes and Fourth streets	27 15.20	03 07.40	do.	Do.
Stone observing post in northwest corner of high school yard	27 14.30	03 06.30	do.	Do.
Nelson	52 20.76	30 06.58	Miss. R. C.	Rept. '84.
Red House	36 28.96	12 53.24	do.	Do.
Salt River	28 07.58	04 15.33	do.	Do.
	39°-40°	94°-95°		
Amazonia	39 53 21.07	94 53 54.10	Mo. R. C.	Bull. 122.
Halls	36 55.15	59 18.61	do.	Do.
Iatan	27 41.08	58 00.81	do.	Do.
Independence court-house	05 37.68	24 56.36	C. & G. S.	
Kansas City : St. Patrick's church spire	06 08.04	35 19.19	do.	
Transit				
Kenmoor	38 55.29	56 01.70	Mo. R. C.	Do.
King Knob	43 06.93	51 35.96	do.	Do.
Reese	29 58.30	59 39.89	do.	Do.
St. Joe	48 31.34	52 11.90	do.	Do.
Vienna	27 37.49	04 47.07	G. S.	Do.
Westport, college spire	04 06.47	35 18.31	C. & G. S.	
	39°-40°	95°-96°		
Forest City	39 58 27.88	95 10 54.30	Mo. R. C.	Do.
Gordon	33 22.79	01 57.13	do.	Do.
Nodaway	54 55.71	01 28.70	do.	Do.
Payne	55 18.39	07 33.29	do.	Do.
	38°-39°	90°-91°		
Barwise	38 54 59.25	90 16 05.50	Miss. R. C.	Rept. '84.
Brickley	05 12.82	12 48.87	do.	Do.
Cesar	09 39.78	18 19.70	do.	Do.
Correll	00 26.00	04 54.83	do.	Do.
East base	50 43.38	25 43.16	do.	Do.
Echele	54 33.62	18 58.00	do.	Do.
Forder	30 39.64	17 32.83	do.	Do.
Freeman	51 29.42	09 02.01	do.	Do.
Halleck	28 12.42	55 24.10	C. & G. S.	
Herculaneum	15 16.55	22 17.54	Miss. R. C.	Do.
Insane asylum	36 13.99	16 45.37	do.	Do.
Lynch	24 32.46	43 59.70	C. & G. S.	
Magnolia	02 42.54	08 40.13	Miss. R. C.	Do.
Merramee	24 23.78	19 36.79	do.	Do.
Missouri River	48 39.97	07 49.21	do.	Do.
Nicholson	54 00.65	13 09.85	do.	Do.
Patterson	27 57.41	31 59.53	C. & G. S.	
Portage	55 10.84	20 37.93	Miss. R. C.	Do.
Ponrie	55 47.03	22 33.65	do.	Do.
Robinson	45 30.68	11 18.10	do.	Do.
St. Louis, Washington University	38 03.00	12 17.00	C. & G. S.	
Shirley	50 48.33	07 22.12	Miss. R. C.	Do.
Standpipe	40 13.59	12 31.51	do.	Do.
Strong	52 57.31	11 50.73	do.	Do.
Sulphur Springs	19 41.09	22 31.84	do.	Do.
Terrapin	48 04.79	08 59.63	do.	Do.
Twin Hollow	27 05.35	17 37.08	do.	Do.
Watkins	52 05.69	10 38.65	do.	Do.
Weper	54 27.33	14 29.76	do.	Do.
West base	56 14.28	26 58.85	do.	Do.
Winfield	50 18.39	44 19.22	do.	Do.
	38°-39°	91°-92°		
Jacobs	38 26 22.93	91 16 09.42	C. & G. S.	
Geyer	27 01.78	35 48.40	do.	
Peters	27 51.32	03 45.43	do.	

MISSOURI—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39°	91°-92°		
Pilot.....	38 20 15.99	91 47 55.15	C. & G. S.	
Winter.....	27 46.12	26 02.37	do.	
	38°-39°	92°-93°		
Hughes.....	38 26 01.36	92 55 50.61	do.	
Wright.....	46 01.63	22 28.27	Mo. R. C.	Bull. 122.
	38°-39°	93°-94°		
Caldwell.....	38 34 10.21	93 45 21.08	C. & G. S.	
Cook Knob, pole in cupola in Cook's ice house.	52 02.06	31 30.45	do.	
Hazel Hill.....	53 46.08	45 05.57	do.	
Heard.....	43 01.28	12 24.88	do.	
High Point Tebo.....	34 39.15	34 18.80	do.	
Kendrick.....	39 43 83	25 57.98	do.	
Knob Noster.....	46 40.35	33 05.70	do.	
Lamonte, Campbellite church spire.	46 44.25	25 22.98	do.	
Normal.....	45 37.89	44 15.08	do.	
Schnackenburg.....	29 56.63	11 26.18	do.	
Sedalia, spire.....	42 26.77	13 36.00	do.	
	38°-39°	94°-95°		
Baker, Kingsville.....	38 45 41.91	94 04 11.78	do.	
Belton, South Methodist church spire.	48 37.64	31 48.65	do.	
Bowler.....	53 20.98	23 38.30	do.	
Butler, barn cupola.....	46 51.42	25 59.85	do.	
Berry, Belton.....	49 18.89	33 32.45	do.	
Chapel Hill.....	54 52.14	03 27.27	do.	
Fulton, Harrisonville.....	38 48.46	18 33.07	do.	
Hutton Mound.....	32 56.24	10 48.82	do.	
North Mound.....	20 51.45	17 13.20	G. S.	Do.
Thornton.....	50 10.25	14 45.83	do.	Do.
Corner Ts. 42 and 43, State line	28 43.66	36 44.57	do.	Do.
Corner Ts. 40 and 41, Rs. 30 and 31	18 29.52	17 28.44	do.	Do.
Corner Ts. 19 and 20, State line	20 47.52	36 45.42	do.	Do.
Corner Ts. 17 and 18, State line	31 11.86	36 42.39	do.	Do.
	37°-38°	89°-90°		
Backbone.....	37 44 48.74	89 39 53.09	Miss. R. C.	Rept. '84.
Bowles.....	01 02.61	12 31.18	do.	Do.
Cape Girardeau.....	18 27.01	31 08.86	do.	Rept. '88.
Normal school.....	18 45.14	31 53.17	do.	Do.
Cape Lecroix.....	14 53.51	28 05.76	do.	Rept. '84.
Commerce.....	08 27.52	26 13.19	do.	Do.
Floral.....	20 50.38	28 25.53	do.	Do.
Grand Chain.....	13 02.59	28 27.61	do.	Do.
Hofner.....	10 05.44	27 06.25	do.	Do.
Indian Creek.....	30 59.60	30 24.06	do.	Do.
Killion.....	48 10.73	47 27.73	do.	Do.
Lower base.....	49 28.52	43 34.53	do.	Do.
Missouri Sister.....	04 41.99	17 00.56	do.	Do.
Moccasin Springs.....	26 28.54	27 13.57	do.	Do.
North base.....	14 26.69	27 49.10	do.	Do.
Rowse.....	03 34.67	15 27.87	do.	Do.
Rozier.....	51 50.03	54 54.35	do.	Do.
Silica.....	36 41.72	31 11.11	do.	Do.
South base.....	13 49.17	28 07.25	do.	Do.
Taylor.....	02 51.93	14 15.28	do.	Do.
Uncle Joe.....	11 51.36	28 07.18	do.	Do.
Upper base.....	50 40.41	45 12.02	do.	Do.
Vause.....	54 48.43	59 20.73	do.	Do.
	37°-38°	90°-91°		
St. Genevieve, church spire.....	37 58 45.02	90 02 49.75	do.	Rept. '88.
	37°-38°	93°-94°		
Bolivar:				
Astronomical pier.....	37 36 35.22	93 24 47.68	G. S.	Bull. 49.
Court house dome.....	36 53.38	24 38.00	do.	Do.
Pinnacle of schoolhouse.....	37 01.87	24 47.75	do.	Do.
Methodist church spire.....	36 58.28	24 34.33	do.	Do.
Southwest pinnacle Southwest Baptist College.	36 31.34	24 44.78	do.	Do.
North Springfield:				
Astronomical pier.....	13 15.96	17 17.58	do.	Do.
Ozark Hotel, flagstaff.....	13 51.56	17 16.69	do.	Do.
Waterworks, flagstaff.....	14 03.26	17 35.36	do.	Do.
Catholic church spire.....	13 42.01	17 05.25	do.	Do.
Drury College chapel, spire.....	13 06.66	17 16.74	do.	Do.
Center sec. 13, T. 29 N., R. 22 W.	13 10.16	17 08.59	do.	Do.
SW. corner sec. 7, T. 29 N., R. 21 W.	13 35.95	16 34.74	do.	Do.
SW. corner T. 30 N., R. 21 W.	16 30.65	17 50.62	do.	Do.
4 sec. corner W. side of sec. 1, T. 29 N., R. 22 W.	16 14.32	17 34.33	do.	Do.
SW. corner sec. 1, T. 33 N., R. 23 W.	36 47.93	24 44.95	do.	Do.

MISSOURI—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	37°-38°	93°-94°		
	° / "	° / "		
NE. corner T. 33 N., R. 23 W.	37 37 38.25	93 23 35.02	G. S.	Bull. 49.
1/4 sec. corner on S. side sec. 12, T. 33 N., R. 23 W.	36 48.25	25 31.45	do.	Do.
	36°-37°	92°-93°		
Cedar.	36 33 32.76	92 58 48.69	do.	Bull. 122.
Hammond.	45 37.92	59 59.53	do.	Do.
	36°-37°	93°-94°		
Bald.	36 39 13.89	93 17 45.27	do.	Do.
Butterfield.	43 43.96	54 48.91	do.	Do.
Lohmer.	39 56.00	42 32.43	do.	Do.
Pilot Knob.	32 46.34	32 46.49	do.	Do.
Trout.	36 34.49	08 47.74	do.	Do.

NORTH DAKOTA.

	48°-49°	102°-103°		
	° / "	° / "		
Crow Flies High.	48 02 19.38	102 41 31.33	Mo. R. C.	Rept. '91.
Elk Horn.	04 15.94	44 52.26	do.	Do.
Grinnell.	10 27.76	57 18.59	do.	Do.
Lone Butte.	05 24.41	52 40.07	do.	Do.
Stony Hill.	02 54.45	34 58.63	do.	Do.
Strawberry.	10 00.23	53 15.92	do.	Do.
White Earth.	07 44.12	40 43.08	do.	Do.
	48°-49°	103°-104°		
Bad Lands.	48 03 27.61	103 27 15.48	do.	Do.
Buford.	01 01.49	58 03.31	do.	Do.
Ehorst.	03 27.28	32 06.26	do.	Do.
Fire Hill.	04 35.48	12 47.48	do.	Do.
Geries.	02 00.86	34 53.87	do.	Do.
Harris.	04 26.78	21 12.67	do.	Do.
Jones Cut.	06 00.05	44 57.51	do.	Do.
Nesson.	09 38.38	12 56.24	do.	Do.
Reservation.	00 05.75	47 25.34	do.	Do.
Scott.	05 21.90	37 36.16	do.	Do.
Tobacco.	06 46.02	03 57.17	do.	Do.
Trenton.	02 16.67	53 53.54	do.	Do.
Williston.	09 19.57	34 47.87	do.	Do.
	47°-48°	100°-101°		
Iverson.	47 09 08.89	100 52 19.96	do.	Do.
Square Butte.	03 00.07	56 09.54	do.	Do.
Washburn.	18 04.45	59 39.14	do.	Do.
Wogan.	00 45.43	49 25.10	do.	Do.
	47°-48°	101°-102°		
Berthold.	47 33 40.56	101 49 39.49	do.	Do.
Chippewa.	33 06.02	40 32.98	do.	Do.
Coal Harbor.	29 51.23	21 16.24	do.	Do.
Cook.	30 16.36	41 26.65	do.	Do.
Emanuel.	31 21.44	35 06.96	do.	Do.
Guide meridian.	29 39.66	46 46.49	do.	Do.
Hancock.	25 00.43	25 41.67	do.	Do.
Hoffman.	18 33.22	26 22.75	do.	Do.
Lundquist.	20 36.06	18 25.19	do.	Do.
Mandan Lake.	14 55.88	08 38.54	do.	Do.
Ranch.	12 56.94	02 49.83	do.	Do.
Robinson.	32 12.06	21 53.01	do.	Do.
Stanton.	16 24.60	22 44.04	do.	Do.
Stevenson.	35 46.98	27 08.57	do.	Do.
Swenshern.	18 46.31	16 32.32	do.	Do.
Winslow.	29 01.42	28 44.72	do.	Do.
	47°-48°	102°-103°		
Cairn.	47 30 17.60	102 02 55.77	do.	Do.
Down.	33 39.64	11 37.30	do.	Do.
Independence.	43 12.26	20 25.79	do.	Do.
Indian Creek.	45 33.30	33 30.34	do.	Do.
Knife River.	58 29.89	32 40.59	do.	Do.
Little Missouri.	37 21.25	18 29.59	do.	Do.
Maneury.	44 32.80	29 12.89	do.	Do.
Mission.	38 09.18	13 55.72	do.	Do.
Oak Ridge.	52 14.17	41 47.32	do.	Do.
Saddle Mountain.	51 19.75	40 27.67	do.	Do.
Scoria.	35 11.70	01 36.71	do.	Do.
Second Ridge.	50 12.49	31 00.20	do.	Do.
Slide.	45 58.77	14 55.11	do.	Do.

NORTH DAKOTA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	47°-48° ° ' "	103°-104° ° ' "		
East base	47 59 49.98	103 56 52.94	Mo. R. C.	Rept. '91.
Glass Bluff	57 01.14	55 45.40	do	Do.
Lagoon	58 47.17	28 37.08	do	Do.
Plum	59 43.48	21 53.65	do	Do.
West base	59 36.20	59 39.28	do	Do.
	46°-47° ° ' "	100°-101° ° ' "		
Battle Creek	46 08 44.72	100 39 07.00	do	Do.
Beaver Creek	17 08.40	31 30.62	do	Do.
Bismarck	49 12.34	45 08.11	do	Do.
Cannon Ball	23 55.25	38 19.27	do	Do.
Cathead	06 52.45	32 43.38	do	Do.
Fort Abraham Lincoln	46 10.00	50 57.00	Engr. Corps.	Rept. '75.
Fort Rice	31 47.13	41 12.47	Mo. R. C.	Rept. '91.
Fort Yates	05 59.44	38 07.42	do	Do.
Gayton	23 44.04	31 34.64	do	Do.
Givens	19 54.15	34 54.54	do	Do.
Glencoe	36 15.59	30 05.23	do	Do.
Harmon	58 40.13	57 15.11	do	Do.
Kayhall	44 03.89	40 33.96	do	Do.
Lincoln	46 12.23	51 03.22	do	Do.
Little Beaver	12 11.61	32 44.64	do	Do.
Little Hart	41 56.32	49 09.74	do	Do.
Mandan	51 08.07	55 05.04	do	Do.
Marysville	51 06.89	48 06.99	do	Do.
McIntyre	28 27.70	32 11.73	do	Do.
McRay	00 54.01	30 40.28	do	Do.
North base	48 10.89	48 14.58	do	Do.
Riverside	37 22.72	43 54.03	do	Do.
South base	45 34.60	47 00.60	do	Do.
Sperry	57 05.97	52 19.87	do	Do.
Van Solen	16 03.91	37 28.84	do	Do.
Winona	03 55.20	33 02.12	do	Do.
	45°-46° ° ' "	100°-101° ° ' "		
Fire Heart	45 59 39.55	100 34 41.14	do	Do.

SOUTH DAKOTA.

	45°-46° ° ' "	100°-101° ° ' "		
Ashley	45 37 45.15	100 26 16.76	Mo. R. C.	Rept. '91.
Aske	33 46.22	22 53.90	do	Do.
Bunker Hill	06 21.61	14 34.37	do	Do.
Bennett	24 00.83	13 28.60	do	Do.
Blue Blanket	29 20.96	24 48.56	do	Do.
Blume	41 19.45	20 39.18	do	Do.
Box Elder	46 05.12	24 20.98	do	Do.
Campbell	41 08.63	14 47.46	do	Do.
Charger	08 20.84	21 00.95	do	Do.
Curlew	25 18.25	20 20.10	do	Do.
Doerschlag	58 01.94	27 14.98	do	Do.
Fox Island	28 29.75	18 10.20	do	Do.
Grand River	32 47.94	29 49.28	do	Do.
Kirkland	46 07.63	17 31.17	do	Do.
La Graco	53 49.18	23 27.76	do	Do.
Le Bean	19 28.54	17 22.61	do	Do.
Martin	55 43.20	32 47.35	do	Do.
McKinley	20 12.18	12 33.97	do	Do.
Roth	36 11.35	20 48.81	do	Do.
Scranton	14 36.96	13 32.42	do	Do.
St. Benedict	50 30.75	30 54.23	do	Do.
St. Stephen	12 46.10	19 01.65	do	Do.
	44°-45° ° ' "	99°-100° ° ' "		
Big Bend	44 13 46.16	99 37 31.62	do	Do.
Burnt Ridge	01 19.73	38 53.90	do	Do.
Cedar River	05 42.40	54 28.06	do	Do.
Chapelle Creek	16 29.61	54 01.86	do	Do.
Neck	08 15.29	35 36.32	do	Do.
Reynolds	10 45.69	46 09.14	do	Do.
Fort Thompson	06 02.46	26 44.92	do	Do.
Wolf Creek	01 57.01	18 10.48	do	Do.
	44°-45° ° ' "	100°-101° ° ' "		
Artichoke	44 50 27.93	100 21 19.01	do	Do.
Bad River	19 50.86	20 39.25	do	Do.
Barth	20 38.89	14 03.58	do	Do.

SOUTH DAKOTA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	44°-45° ° ' "	100°-101° ° ' "		
Brown Hill.....	44 25 39.58	100 27 23.68	Mo. R. C.....	Rept. '91.
Cemetery.....	21 54.71	18 19.73	do.....	Do.
East base.....	20 46.24	17 07.56	do.....	Do.
Fairbank.....	46 43.75	25 45.40	do.....	Do.
Farm Island.....	13 24.37	14 03.51	do.....	Do.
Ferry.....	24 31.84	31 20.83	do.....	Do.
Fielder.....	31 56.36	38 10.84	do.....	Do.
Forest City.....	59 15.11	18 07.48	do.....	Do.
Fort.....	22 04.98	24 14.87	do.....	Do.
Fort Bennett.....	41 38.25	41 46.38	do.....	Do.
Fort George.....	14 21.71	02 04.22	do.....	Do.
Ingham.....	29 28.34	29 24.58	do.....	Do.
Jacques.....	18 05.28	02 08.00	do.....	Do.
Narselles.....	17 15.80	07 21.06	do.....	Do.
Pascal.....	54 47.75	26 49.60	do.....	Do.
Perry.....	20 15.48	08 45.29	do.....	Do.
Pierre.....	22 50.28	20 26.44	do.....	Do.
Plateau.....	19 32.50	18 01.60	do.....	Do.
Plumb Island.....	51 37.13	34 44.83	do.....	Do.
Rousseau.....	19 26.16	05 16.95	do.....	Do.
Travessy.....	59 26.12	27 41.83	do.....	Do.
Snake Butte.....	25 36.03	21 45.15	do.....	Do.
Stony Hill.....	28 19.00	23 57.26	do.....	Do.
Sully.....	41 54.74	29 06.48	do.....	Do.
West base.....	21 14.97	19 47.76	do.....	Do.
	44°-45° ° ' "	103°-104° ° ' "		
Bear Butte.....	44 28 34.40	103 25 08.90	G. S.....	Bull. 122.
Costello.....	18 12.90	05 26.80	do.....	Do.
Custer.....	14 41.40	43 41.10	do.....	Do.
Deadwood, post-office.....	22 34.00	43 18.60	L. S.....	Final Rept.
Dunning.....	05 20.30	03 32.30	G. S.....	Bull. 122.
East base.....	07 04.00	04 35.50	do.....	Do.
Mitchell.....	09 53.80	06 20.10	do.....	Do.
Piedmont.....	13 55.80	21 40.50	do.....	Do.
Rapid, astronomical pier.....	04 45.24	12 59.28	do.....	Do.
Sammis.....	03 07.10	14 16.50	do.....	Do.
West base.....	07 09.20	10 29.10	do.....	Do.
White.....	06 53.70	14 12.00	do.....	Do.
	43°-44° ° ' "	98°-99° ° ' "		
Chicot.....	43 03 03.67	98 41 30.51	Mo. R. C.....	Rept. '91.
Kyle.....	18 02.59	51 58.75	do.....	Do.
Leonard.....	08 43.72	37 39.33	do.....	Do.
Mule Head.....	13 20.61	56 05.37	do.....	Do.
Wheeler.....	12 20.63	48 26.42	do.....	Do.
Whetstone.....	06 35.91	50 04.30	do.....	Do.
White Swan.....	03 52.46	29 21.42	do.....	Do.
	43°-44° ° ' "	99°-100° ° ' "		
Badger Creek.....	43 59 10.55	99 28 45.86	do.....	Do.
Bijou.....	30 51.66	15 26.56	do.....	Do.
Bluff.....	56 24.00	19 42.32	do.....	Do.
Boland.....	23 22.68	01 31.08	do.....	Do.
Brickkiln.....	23 46.97	12 49.96	do.....	Do.
Brulé.....	47 06.18	27 05.15	do.....	Do.
Chamberlain.....	47 23.66	19 17.70	do.....	Do.
Cologne.....	20 38.83	08 30.92	do.....	Do.
Durex.....	27 52.74	19 56.52	do.....	Do.
Fort Lookout.....	53 29.15	23 38.34	do.....	Do.
Hamilton.....	16 25.20	02 18.26	do.....	Do.
Heaton.....	26 46.83	07 42.65	do.....	Do.
Indian.....	37 49.46	30 13.57	do.....	Do.
Prichard.....	51 12.80	17 24.94	do.....	Do.
Rosebud.....	31 47.39	24 37.69	do.....	Do.
Willrodt.....	38 56.08	19 37.74	do.....	Do.
	43°-44° ° ' "	102°-103° ° ' "		
Thompson Butte.....	43 55 07.00	102 58 42.50	G. S.....	Bull. 122.
	43°-44° ° ' "	103°-104° ° ' "		
Bradley.....	43 25 08.50	103 37 07.00	do.....	Do.
Cheyenne.....	35 52.60	06 43.50	do.....	Do.
Custer.....	45 56.44	36 17.30	Engr. Corps.....	Rept. '78.
Fossil.....	12 21.52	30 00.00	G. S.....	Bull. 122.
Gap.....	30 51.00	22 03.40	do.....	Do.
Harney Peak.....	51 59.60	31 27.30	do.....	Do.
State Line.....	00 04.50	16 02.70	do.....	Do.
Windy.....	14 35.00	11 00.50	do.....	Do.

NEBRASKA.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° "	96°-97° ° "		
Baird	42 20 59.31	96 30 14.14	Mo. R. C	Rept. '91.
Blackbird	04 45.93	17 54.86	do	Do.
Emerson	30 04.95	28 06.87	do	Do.
Grant	10 32.11	00 33.26	do	Do.
Hall	36 42.45	30 25.34	do	Do.
Hedges	19 08.27	08 07.10	do	Do.
Ionia	39 19.78	46 02.25	do	Do.
Johnson	49 07.40	41 56.12	do	Do.
Round Cap	29 25.68	35 37.66	do	Do.
Ryan	42 14.28	53 02.74	do	Do.
Sargeants	24 31.50	21 04.78	do	Do.
Spirit Mound	52 26.44	57 31.90	do	Do.
Triloba	33 30.29	40 02.36	do	Do.
Westfield	41 13.31	33 21.77	do	Do.
Winnebago	15 57.93	22 27.17	do	Do.
	42°-43°	97°-98°		
Bon Homme	42 52 20.47	97 40 19.47	do	Do.
Bow Creek	46 03.82	07 32.98	do	Do.
Covell	49 53.77	56 31.20	do	Do.
Herrick	47 59.94	39 10.81	do	Do.
Kelley	47 50.98	57 26.60	do	Do.
Lakeport	53 20.24	33 08.55	do	Do.
Lost Creek	46 56.68	54 03.94	do	Do.
Niobrara	44 01.46	57 49.24	do	Do.
North base	47 54.41	55 33.18	do	Do.
Pit	47 50.29	31 02.84	do	Do.
Santee	47 58.11	47 10.61	do	Do.
Schmidt	48 15.38	19 48.03	do	Do.
South base	46 01.81	57 24.49	do	Do.
Springfield	53 07.24	50 34.33	do	Do.
Welby	55 57.63	19 00.38	do	Do.
	42°-43°	98°-99°		
Arneson	42 48 29.35	98 02 54.14	do	Do.
Bruce	53 45.01	24 37.50	do	Do.
Chouteau	52 17.12	08 37.97	do	Do.
Conger	55 50.48	13 42.09	do	Do.
Harrison	57 11.06	34 47.52	do	Do.
Ponca	46 47.56	12 29.06	do	Do.
Ward	45 07.05	06 25.15	do	Do.
	42°-43°	103°-104°		
Camp Robinson, flagstaff	42 39 48.33	103 27 45.00	Engr. Corps	Rept. '78.
	41°-42°	95°-96°		
Bellevue	41 09 47.79	95 53 57.06	do	Bull. 122.
Bluffs	14 32.44	50 35.43	do	Rept. '91.
Council	16 32.75	51 09.91	do	Do.
Crescent	21 09.58	52 16.73	do	Do.
Douglas	23 40.89	58 33.65	do	Do.
Henton	06 04.82	49 00.85	do	Do.
High School	15 36.11	56 38.14	do	Do.
Mormon	48 52.12	59 43.85	do	Do.
Omaha	16 50.46	57 33.27	do	Do.
Platte	02 08.56	53 55.42	Mo. R. C	Bull. 122.
Taylor	41 13.10	56 31.48	do	Rept. '91.
U. S. C. and G	15 33.94	56 37.22	do	Do.
	41°-42°	96°-97°		
Bench	41 33 11.12	96 07 45.58	do	Do.
Blair	31 05.32	07 05.09	do	Do.
East base	36 49.41	06 50.33	do	Do.
Herman	38 04.65	12 24.07	do	Do.
Sandig	56 32.87	14 31.41	do	Do.
Tekamah	46 16.27	13 34.99	do	Do.
West	36 49.19	09 40.18	do	Do.
	41°-42°	100°-101°		
North Platte, astronomical monu- ment	41 08 18.33	100 45 53.14	Wheeler	Final Rept.
	41°-42°	102°-103°		
Fort Sidney, astronomical monu- ment	41 08 36.75	102 58 13.32	do	Do.
	41°-42°	103°-104°		
Bushnell, transit	41 13 54.00	103 52 56.25	C. & G. S.	Rept. '84.
	40°-41°	95°-96°		
Arago	40 08 13.84	95 26 39.51	Mo. R. C	Rept. '91.
Brownville	24 30.39	39 36.59	do	Do.
Calumet	53 40.80	53 21.02	do	Do.
City	36 32.01	47 59.14	do	Do.

NEBRASKA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41°	95°-96°		
	° ' "	° ' "		
Devoir	40 14 37.26	95 31 16.01	Mo. K. C.....	Rept. '91.
Jones	49 07.05	52 05.56	do	Do.
Nemaha	01 08.48	20 59.11	do	Do.
Otoe	39 16.90	49 03.08	do	Do.
Peru	28 10.98	42 11.39	do	Do.
St. Deroir	16 44.45	34 18.72	do	Do.
	40°-41°	97°-98°		
State line Kansas and Nebraska	40 00 12.52	97 55 54.66	G. S	Bull. 122.

KANSAS.

	39°-40°	94°-95°		
	° ' "	° ' "		
Anderson	39 41 56.86	94 58 59.13	Mo. R. C.....	Rept. '91.
Amazonia	53 21.07	53 54.10	do	Do.
Fort Leavenworth	21 19.12	54 51.84	Engr. Corps..	Do.
Fox	50 46.35	50 45.32	Mo. R. C.....	Do.
Halls	36 55.15	59 18.61	do	Do.
Iatan	27 41.08	58 00.81	do	Do.
Kenmoor	38 55.29	50 01.70	do	Do.
Kickapoo	24 22.13	58 25.79	do	Do.
Kings Knob	43 06.93	51 35.96	do	Do.
Reese	29 58.30	59 39.89	do	Do.
Sheridan	22 16.45	55 52.67	do	Do.
St. Joe	48 31.34	52 11.90	do	Do.
Wathena	45 09.89	57 07.31	do	Do.
Weston	24 10.55	53 45.96	do	Do.
	39°-40°	95°-96°		
	° ' "	° ' "		
Agency	39 14 44.10	95 50 10.20	G. S	Bull. 122.
Atchison	35 42.56	05 53.20	Mo. R. C.....	Rept. '91.
Cedar	22 20.01	33 13.35	G. S	Bull. 122.
Cope	17 13.39	36 25.64	do	Do.
Eckman	02 37.37	00 05.19	C. & G. S.....	Do.
Forest City	58 27.88	10 54.30	Mo. R. C.....	Rept. '91.
Geary	38 54.56	02 55.52	do	Do.
Gordon	33 22.79	01 57.13	do	Do.
Lecompton	00 06.17	24 21.74	G. S	Bull. 122.
Lookout	53 26.71	10 04.96	Mo. R. C.....	Rept. '91.
Meriden	11 54.86	34 40.64	G. S	Bull. 122.
Meers	51 28.21	05 13.09	Mo. R. C.....	Rept. '91.
Newman	07 11.39	28 57.02	G. S	Bull. 122.
Nodaway	54 55.71	01 28.70	Mo. R. C.....	Rept. '91.
Oak Mills	26 56.54	01 07.91	do	Do.
Ozawkie	10 24.10	19 57.30	G. S	Bull. 122.
Parry	06 56.78	20 53.40	do	Do.
Payne	55 18.39	07 33.29	Mo. R. C.....	Rept. '91.
Pottawatomie	24 52.00	50 48.21	G. S	Bull. 122.
Railroad	19 26.47	42 48.38	do	Do.
Rock Creek	15 56.26	31 17.35	do	Do.
Skimmerhorn	13 57.05	41 41.87	do	Do.
Snyder	31 34.23	06 02.24	Mo. R. C.....	Rept. '91.
Soldier	21 19.29	57 35.63	G. S	Bull. 122.
White Cloud	57 39.99	16 25.02	Mo. R. Co.....	Rept. '91.
Windmill	05 02.12	12 35.59	G. S	Bull. 122.
SE. corner sec. 21, T. 7, R. 14.	25 15.38	50 54.35	do	Do.
SW. corner sec. 1, T. 11, R. 17.	07 00.46	28 50.40	do	Do.
SW. corner sec. 15, T. 12, R. 18.	00 06.13	24 33.79	do	Do.
SW. corner sec. 25, T. 9, R. 15.	13 56.07	42 00.24	do	Do.
NW. corner sec. 26, T. 8, R. 15.	19 34.45	43 07.45	do	Do.
NW. corner sec. 27, T. 9, R. 14.	14 47.01	49 55.40	do	Do.
NE. corner sec. 19, T. 10, R. 19.	10 25.77	19 43.14	do	Do.
N. 4 corner sec. 7, T. 11, R. 19.	07 03.40	20 42.15	do	Do.
NE. corner sec. 6, T. 12, R. 21.	02 42.60	00 03.84	do	Do.
NW. corner sec. 11, T. 9, R. 16.	17 23.86	36 26.06	do	Do.
NW. corner sec. 15, T. 8, R. 13.	21 45.40	57 36.61	do	Do.
E. 4 corner sec. 16, T. 9, R. 17.	16 05.63	30 57.47	do	Do.
E. 4 corner sec. 20, T. 11, R. 20.	04 54.57	12 21.73	do	Do.
E. 4 corner sec. 7, T. 8, R. 17.	22 12.42	33 12.80	do	Do.
Center corner sec. 12, T. 10, R. 16.	11 44.71	34 46.93	do	Do.
	39°-40°	96°-97°		
	° ' "	° ' "		
Blaine	39 29 42.52	96 19 07.22	do	Do.
Fostoria	28 48.46	26 44.12	do	Do.
Leonardville	22 53.20	47 19.91	do	Do.
Louisville	22 30.40	20 48.35	do	Do.
Olesburg	26 19.60	32 45.05	do	Do.

KANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40°	96°-97°		
Randolph	39 32 02.03	96 44 44.33	G. S.	Bull. 123.
Springside	32 55.57	30 28.01	do	Do.
St. Marys	16 31.60	06 15.10	do	Do.
Stockdale	20 44.26	32 01.20	do	Do.
SE. corner sec. 29, T. 6, R. 10	29 39.48	18 50.25	do	Do.
S. $\frac{1}{2}$ sec. 17, T. 7, R. 8	26 12.84	32 51.35	do	Do.
SW. corner sec. 5, T. 8, R. 6	22 47.20	47 34.08	do	Do.
NE. corner sec. 6, T. 7, R. 9	28 48.65	26 40.66	do	Do.
N. $\frac{1}{2}$ corner sec. 7, T. 8, R. 10	22 41.20	20 32.57	do	Do.
N. $\frac{1}{2}$ corner sec. 15, T. 6, R. 6	32 17.77	44 44.30	do	Do.
NW. corner sec. 17, T. 9, R. 12	16 33.52	06 35.33	do	Do.
NW. corner sec. 21, T. 8, R. 8	20 59.72	32 16.32	do	Do.
	39°-40°	97°-98°		
Butler	39 15 25.88	97 15 33.67	do	Do.
Concordia	31 28.03	40 34.64	do	Do.
Frey	01 31.84	10 24.56	do	Do.
Jamestown	39 23.77	50 40.98	do	Do.
Minersville	40 10.09	41 58.48	do	Do.
Monument	13 33.24	30 05.41	do	Do.
Renshawe	33 37.45	11 47.30	do	Do.
Scottsville	32 26.99	57 22.31	do	Do.
Sulphur Springs	24 36.77	30 42.37	do	Do.
Table Mound	18 44.74	16 36.81	do	Do.
Thompson	04 19.49	49 45.44	C. & G. S.	
Vine Creek	06 11.06	23 23.18	do	
Wayne	41 45.81	30 20.34	G. S.	Do.
Wilmer	07 20.93	02 22.80	do	Do.
Center corner sec. 11, T. 12, R. 2	01 31.95	10 33.73	do	Do.
NW. corner sec. 13, T. 11, R. 1	06 15.63	23 23.79	do	Do.
SE. corner sec. 1, T. 11, R. 3	07 10.80	02 13.08	do	Do.
W. corner sec. 36, T. 9, R. 2 W	13 27.80	30 12.60	do	Do.
One-fourth corner secs. 24 and 19, T. 9, R. 1 and 2 E.	15 27.02	15 32.88	do	Do.
SE. corner sec. 35, T. 8, R. 1 E.	18 29.10	16 36.70	do	Do.
S. $\frac{1}{2}$ corner sec. 26, T. 7, R. 2	24 35.86	30 43.88	do	Do.
N. $\frac{1}{2}$ corner sec. 20, T. 6, R. 3	31 34.49	40 34.29	do	Do.
S. $\frac{1}{2}$ corner sec. 11, T. 6, R. 6	32 24.73	57 25.56	do	Do.
E. corner sec. 11, T. 6, R. 6	32 38.69	09 16.32	do	Do.
S. $\frac{1}{2}$ corner sec. 35, T. 4, R. 5	39 17.65	50 50.43	do	Do.
S. $\frac{1}{2}$ corner sec. 30, T. 4, R. 3	40 10.17	41 50.37	do	Do.
NE. corner sec. 23, T. 4, R. 2 W	41 59.00	29 46.70	do	Do.
	39°-40°	98°-99°		
Blue Hill	39 20 34.43	98 19 01.13	do	Do.
Cemetery	35 51.53	10 25.06	do	Do.
Church	20 52.77	06 06.93	do	Do.
Hardlee	50 57.55	57 03.13	do	Do.
Lawrence Creek	31 17.82	51 28.82	do	Do.
Lincoln	05 34.63	05 56.86	C. & G. S.	
Meade Ranch or Tree Will	13 32.79	32 31.61	do	
Old well	36 47.61	34 00.86	G. S.	Do.
Pointed Hill	44 21.20	05 42.48	do	Do.
School	39 23.13	42 38.01	do	Do.
Tipton	21 38.54	31 57.62	do	Do.
Waldo	10 00.77	49 52.37	C. & G. S.	
Corner secs. 15, 16, 21, 22, T. 8, R. 7	21 04.73	05 50.81	G. S.	Do.
E. $\frac{1}{2}$ corner sec. 15, T. 8, R. 11	21 39.38	31 38.08	do	Do.
W. $\frac{1}{2}$ corner sec. 23, T. 6, R. 14	31 09.68	51 32.13	do	Do.
SW. corner sec. 24, T. 5, R. 8	35 51.40	10 32.90	do	Do.
SE. corner sec. 16, T. 5, R. 11	36 44.32	33 40.50	do	Do.
N. $\frac{1}{2}$ corner sec. 3, T. 4, R. 7	44 32.04	05 47.87	do	Do.
W. $\frac{1}{2}$ corner sec. 30, T. 2, R. 14	51 06.93	57 15.75	do	Do.
	39°-40°	99°-100°		
Blue Mound	39 50 17.51	99 09 21.08	do	Do.
Densmore	35 22.38	41 51.48	do	Do.
Engstrom	34 43.59	00 06.77	do	Do.
Plaster Mound	46 18.67	30 21.19	do	Do.
Rock Mound	35 41.72	28 22.30	do	Do.
Stahl	44 00.81	49 03.34	do	Do.
Twin Mound	36 52.73	18 49.82	do	Do.
Windmill	33 02.28	54 10.34	do	Do.
N. $\frac{1}{2}$ corner sec. 34, T. 5, R. 15	35 01.40	00 03.34	do	Do.
NW. corner sec. 28, T. 5, R. 19	35 52.18	28 41.34	do	Do.
S. $\frac{1}{2}$ corner sec. 14, T. 5, R. 18	36 44.73	19 06.61	do	Do.
SE. corner sec. 5, T. 4, R. 22	43 38.57	48 55.11	do	Do.
N. $\frac{1}{2}$ corner sec. 32, T. 2, R. 16	50 39.66	09 04.78	do	Do.
	39°-40°	100°-101°		
Lenora	39 34 40.17	100 02 06.47	do	Do.
Wakeman	42 08.15	00 41.09	do	Do.
SW. corner sec. 33, T. 5, R. 24	34 05.50	02 23.00	do	Do.

KANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39°	94°-95°		
	° / "	° / "		
Ellison.....	38 28 52.14	94 41 24.12	G. S.	Bull. 122.
Lenexa, Methodist Episcopal church.	57 49.10	44 20.00	do	Do.
Long Mound	30 30.94	36 54.35	do	Do.
McCook	20 49.60	56 26.04	do	Do.
Osawatimie, insane asylum.	30 50.86	56 19.64	do	Do.
Wooded Mound	20 00.55	37 15.90	do	Do.
Corner Ts. 42 and 43, State line	28 43.66	36 44.57	do	Do.
Corner Ts. 40 and 41, Rs. 30 and 31	18 29.52	17 28.44	do	Do.
Corner Ts. 19 and 20, Rs. 22 and 23	20 48.72	55 02.97	do	Do.
Corner Ts. 19 and 20, State line	20 47.52	36 45.42	do	Do.
Corner Ts. 18 and 19, Rs. 24 and 25	26 02.63	41 43.13	do	Do.
Corner Ts. 17 and 18, Rs. 22 and 23	31 16.29	55 03.33	do	Do.
Corner Ts. 17 and 18, State line	31 11.86	36 42.39	do	Do.
	38°-39°	95°-96°		
Allen	38 23 26.62	95 45 13.55	do	Do.
Blue Mound	54 20.72	10 53.95	do	Do.
Calvert	25 10.89	56 56.69	do	Do.
Duval	22 48.40	38 11.72	do	Do.
Emerald, cross on church	23 13.58	27 09.65	do	Do.
Filmore	27 26.86	46 25.60	do	Do.
Lawrence University	57 30.48	14 36.32	do	Do.
Loamas	27 15.04	27 30.12	do	Do.
Richmond, cupola of church	24 14.64	15 10.71	do	Do.
Rock Mound	20 09.52	31 10.36	do	Do.
Roky	30 23.72	40 19.64	do	Do.
Scipio, Dutch college	22 00.30	13 00.18	do	Do.
Sebo, schoolhouse	25 07.59	51 29.45	do	Do.
Wilton	30 37.34	08 50.00	do	Do.
White	23 57.08	03 51.80	do	Do.
SE. corner sec. 36, T. 12, R. 19	57 30.06	14 28.13	do	Do.
SW. corner sec. 22, T. 13, R. 20	54 00.74	11 08.03	do	Do.
Corner Ts. 20 and 21, Rs. 19 and 20	15 39.10	14 54.33	do	Do.
Corner Ts. 19 and 20, Rs. 19 and 20	20 52.61	14 53.47	do	Do.
Corner Ts. 19 and 20, Rs. 16 and 17	20 53.15	34 53.15	do	Do.
Corner Ts. 19 and 20, Rs. 14 and 15	20 51.74	48 07.69	do	Do.
Corner Ts. 18 and 19, Rs. 17 and 18	26 06.60	28 14.58	do	Do.
Corner Ts. 18 and 19, Rs. 14 and 15	26 05.34	48 06.91	do	Do.
Corner Ts. 18 and 19, Rs. 13 and 14	26 05.58	54 45.04	do	Do.
Corner Ts. 17 and 18, Rs. 15 and 16	31 23.42	41 29.02	do	Do.
Corner Ts. 17 and 18, Rs. 20 and 21	31 19.21	08 15.30	do	Do.
	38°-39°	96°-97°		
Baker	38 28 52.41	96 28 21.28	do	Do.
Cattle Ranch	26 28.24	37 03.25	do	Do.
Chicago Mound	21 10.91	04 08.52	do	Do.
Cottonwood Falls, cupola of court- house.	22 18.47	32 28.30	do	Do.
Emporia, cupola of State normal school.	24 50.96	10 47.52	do	Do.
Florence	15 57.32	54 53.86	do	Do.
Jacobs Mound	18 57.82	24 11.58	do	Do.
Messer	16 12.26	40 49.00	do	Do.
Newhall	10 30.13	53 46.84	do	Do.
Plumb	30 34.76	01 43.20	do	Do.
St. Johns	09 13.46	59 58.46	do	Do.
Stubbs	28 48.56	18 08.04	do	Do.
Tedro	19 34.46	37 38.01	do	Do.
Weichaus	21 52.57	43 56.30	do	Do.
Corner Ts. 20 and 21, Rs. 5 and 6	15 45.68	49 07.73	do	Do.
Corner Ts. 20 and 21, Rs. 6 and 7	15 45.39	42 29.86	do	Do.
Corner Ts. 17 and 18, Rs. 12 and 13	31 21.70	01 24.07	do	Do.
Corner Ts. 18 and 19, Rs. 7 and 8	26 11.61	35 50.45	do	Do.
Corner Ts. 19 and 20, Rs. 6 and 7	20 57.83	42 30.25	do	Do.
Corner Ts. 19 and 20, Rs. 12 and 13	20 54.26	01 25.50	do	Do.
Corner Ts. 19 and 20, Rs. 7 and 8	20 57.74	35 52.40	do	Do.
Corner Ts. 20 and 21, Rs. 4 and 5	15 45.45	55 45.11	do	Do.
Corner Ts. 17 and 18, Rs. 8 and 9	31 23.60	27 51.51	do	Do.
	38°-39°	97°-98°		
Bennett	38 10 32.99	97 16 03.24	do	Do.
Black Kettle	08 52.10	33 43.00	do	Do.
Dunkard	13 28.69	10 06.06	do	Do.
Dwarf	04 24.78	39 51.21	do	Do.
Herron	14 27.16	01 23.46	do	Do.
Hesston	08 30.86	25 38.62	do	Do.
Iron Mound	48 34.58	30 42.85	C. & G. S.	
Leslie	08 39.43	47 17.01	G. S.	Do.
Newt	06 44.73	11 58.24	do	Do.
Newton	02 58.56	20 40.06	do	Do.
Royer	10 09.10	20 09.84	do	Do.
Ruth	03 30.50	29 40.05	do	Do.

KANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39°	97°-98°		
Sand Hill.....	38 09 38.57	97 56 47.08	G. S.	Bull. 122.
Sheep Ranch.....	04 10.15	48 42.82	do	Do.
Walton.....	07 58.43	14 02.11	do	Do.
SE. corner sec. 36, T. 21, R. 1 E.	10 27.58	15 44.98	do	Do.
SE. corner sec. 36, T. 22, R. 1 E.	05 10.40	15 46.12	do	Do.
SE. corner sec. 8, T. 22, R. 2	08 40.37	33 17.20	do	Do.
SW. corner sec. 8, T. 22, R. 4	08 39.22	47 35.89	do	Do.
SW. corner sec. 4, T. 23, R. 3 W	04 18.44	39 50.32	do	Do.
SW. corner sec. 13, T. 21, R. 2 E	13 04.86	10 10.83	do	Do.
SW. corner sec. 33, T. 21, R. 1 E	10 24.77	20 09.69	do	Do.
Township corner.....	05 12.73	15 46.66	do	Do.
NE. corner sec. 13, T. 23, R. 5 W	03 24.96	48 58.43	do	Do.
NE. corner sec. 16, T. 22, R. 1 W	08 39.46	25 33.46	do	Do.
NE. corner sec. 16, T. 23, R. 1 E	02 57.72	20 38.70	do	Do.
	38°-39°	98°-99°		
Ackerman.....	38 07 21.59	98 50 45.32	do	Do.
Allon.....	49 41.74	52 20.46	C. & G. S.	
Bunker Hill.....	52 20.26	42 18.52	do	
Cactus.....	24 17.00	52 06.63	G. S.	Do.
Drifting Sand.....	09 44.89	23 51.08	do	Do.
Ellsworth.....	43 48.00	13 35.00	C. & G. S.	
Golden Belt.....	58 48.25	18 25.72	do	
Heath.....	50 45.10	02 59.70	do	
Lyons.....	19 51.93	08 45.70	G. S.	Do.
Millet.....	18 01.57	21 23.26	do	Do.
Mound.....	13 52.48	47 04.24	do	Do.
Pasture.....	22 23.95	39 33.57	do	Do.
Raymond.....	17 36.29	24 12.15	do	Do.
Sterling.....	13 14.64	12 24.26	do	Do.
Two.....	03 21.56	01 27.49	do	Do.
Wilson.....	51 55.97	29 18.17	C. & G. S.	
SW. corner sec. 16, T. 21, R. 8	13 00.15	12 53.68	G. S.	Do.
SW. corner sec. 23, T. 20, R. 10	17 23.38	24 20.49	do	Do.
SE. corner sec. 36, T. 20, R. 12	15 37.92	35 22.11	do	Do.
NE. corner sec. 16, T. 19, R. 14	24 17.21	51 56.28	do	Do.
NE. corner sec. 18, T. 21, R. 13	13 54.42	47 01.07	do	Do.
NE. corner sec. 12, T. 20, R. 8	19 57.41	08 43.50	do	Do.
NW. corner sec. 8, T. 22, R. 10	10 22.12	27 06.43	do	Do.
NW. corner sec. 28, T. 19, R. 12	22 33.39	39 46.92	do	Do.
NW. corner sec. 18, T. 23, R. 7	03 24.26	01 49.70	do	Do.
	38°-39°	99°-100°		
Blue Hill.....	38 59 01.93	99 05 58.46	C. & G. S.	
Burdette.....	08 43.23	32 46.31	G. S.	Do.
Cheese Factory.....	01 43.15	38 42.51	do	Do.
Dugout.....	15 21.16	13 44.80	do	Do.
Fair Mount.....	40 35.70	00 17.42	do	Do.
Frank.....	12 19.09	43 16.18	do	Do.
Garfield.....	06 29.63	13 56.68	do	Do.
Hays.....	54 56.66	16 16.86	C. & G. S.	
Larned.....	07 55.74	03 52.94	G. S.	Do.
La Crosse.....	35 42.96	16 10.33	C. & G. S.	
Last Chance.....	03 40.85	36 12.94	G. S.	Do.
Orwell.....	01 25.08	48 16.96	do	Do.
Pawnee.....	18 05.09	01 25.25	do	Do.
Quarry.....	15 19.81	25 18.54	do	Do.
SE. corner sec. 22, T. 21, R. 22	12 13.49	42 58.18	do	Do.
SE. corner sec. 15, T. 22, R. 16	07 49.36	05 27.13	do	Do.
SE. corner sec. 29, T. 23, R. 21	01 42.99	38 30.01	do	Do.
SE. corner sec. 25, T. 23, R. 23	01 16.87	47 17.96	do	Do.
SW. corner sec. 14, T. 23, R. 21	03 27.33	36 17.90	do	Do.
NW. corner sec. 19, T. 20, R. 15	18 15.26	01 53.60	do	Do.
NW. corner sec. 17, T. 22, R. 20	08 43.37	33 02.88	do	Do.
NW. corner sec. 5, T. 21, R. 19	15 42.32	25 26.48	do	Do.
NW. corner sec. 30, T. 22, R. 17	06 55.99	14 22.27	do	Do.
NW. corner sec. 6, T. 21, R. 17	15 38.22	14 01.82	do	Do.
	38°-39°	101°-102°		
Coyote.....	38 01 36.35	101 02 05.96	do	Do.
Lakin.....	00 38.35	14 06.41	do	Do.
NE. corner sec. 35, T. 22, R. 36	00 58.76	13 46.56	do	Do.
NW. corner sec. 27, T. 23, R. 34	01 53.62	02 47.72	do	Do.
	37°-38°	94°-95°		
Fort Scott:				
Standpipe.....	37 49 54.08	94 42 58.13	do	Bull. 49.
Spire on cupola of Central School.	50 17.28	42 28.19	do	Do.
Spire of Congregational church.....	50 15.20	42 26.91	do	Do.
Flagstaff in national cemetery.....	49 21.14	41 33.04	do	Do.
Astronomical pier.....	50 25.76	42 26.75	do	Do.
SE. corner sec. 31, T. 25 S., R. 25 E., Bourbon County.	49 13.79	41 42.71	do	Do.

KANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	37°-38° " "	94°-95° " "		
† sec. corner S. side sec. 31, T. 25 S., R. 25 E., Bourbon County.	37 49 13.73	94 42 15.84	G. S.	Bull. 49.
SW. corner T. 25 S., R. 25 E., Bourbon County.	49 13.75	42 48.78	do	Do.
Oswego:	37°-38°	95°-96°		
Spire Baptist church	37 10 09.45	95 06 22.16	do	Do.
Spire of court-house	09 58.93	06 24.08	do	Do.
Spire Methodist church	10 13.24	06 32.11	do	Do.
Spire schoolhouse	10 09.00	06 48.64	do	Do.
Labette County astronomical pier.	09 59.81	06 24.66	do	Do.
Engine house	09 58.80	06 28.66	do	Do.
NW. corner T. 30 S., R. 21 E., Labette County.	12 33.38	09 26.37	do	Do.
SW. corner T. 33 S., R. 21 E., Labette County.	11 41.00	09 26.31	do	Do.
Elk Falls:	37°-38°	96°-97°		
Spire Methodist church	37 22 19.87	96 11 22.79	do	Do.
Astronomical pier	22 03.64	11 14.46	do	Do.
† sec. corner S. sec. 10, T. 31 S., R. 11 E., Elk County.	21 33.82	11 23.45	do	Do.
SE. corner T. 30 S., R. 11 E., Elk County	23 18.08	08 32.13	do	Do.
SE. corner sec. 10, T. 31 S., R. 11 E., Elk County.	21 33.89	10 49.67	do	Do.
SW. corner sec. 10, T. 31 S., R. 11 E., Elk County.	21 33.83	11 55.21	do	Do.
First View	37 59 06.27	99 50 09.11	do	Bull. 122.
Meridian	51 12.71	59 54.26	do	Do.
Purdyville	56 30.51	57 14.45	do	Do.
Spearville (astronomic pier)	59 06.34	45 10.05	do	Bull. 70.
Wright	47 44.38	51 43.91	do	Bull. 122.
SW. corner sec. 8, T. 26, R. 23	47 34.78	52 06.17	do	Do.
SE. corner sec. 21, T. 24, R. 24	56 29.98	57 14.34	do	Do.
SE. corner sec. 3, T. 24, R. 23	59 06.21	49 30.70	do	Do.
NE. corner sec. 29, T. 25, R. 22	51 15.57	45 06.54	do	Do.
N. † corner sec. 30, T. 25, R. 24	51 14.31	52 57.20	do	Do.
Bullord	37 52 33.13	100 52 49.00	do	Do.
Cimarron	49 25.42	19 39.01	do	Do.
Standpipe	49 00.32	20 48.05	do	Do.
Schoolhouse	48 31.02	20 40.80	do	Do.
Desolation	46 17.35	41 27.65	do	Do.
Dodge	46 35.40	02 33.52	do	Do.
Garden City:				
North schoolhouse	58 19.70	52 23.70	do	Do.
South schoolhouse	57 39.18	52 14.77	do	Do.
Standpipe	57 50.35	52 41.89	do	Do.
Grandview	40 48.17	14 38.68	do	Do.
Schoolhouse	51 21.97	20 07.73	do	Do.
Ina	43 53.57	28 27.30	do	Do.
Ingalls	51 01.57	28 03.64	do	Do.
Mansfield	58 23.46	45 28.05	do	Do.
Marble	51 23.70	16 52.41	do	Do.
Pretty Prairie schoolhouse	50 26.24	15 47.05	do	Do.
Pierceville	53 23.74	38 07.09	do	Do.
Schoolhouse	53 01.31	40 19.97	do	Do.
Schoolhouse, 4 miles east of Mansfield.	56 11.52	41 58.42	do	Do.
Snyder	51 51.54	06 58.89	do	Do.
S. † corner sec. 23, T. 27, R. 27	40 42.46	14 26.80	do	Do.
SE. corner sec. 36, T. 26, R. 31	44 03.73	39 10.82	do	Do.
SE. corner sec. 27, T. 25, R. 27	50 27.35	15 45.94	do	Do.
SW. corner sec. 19, T. 25, R. 27	51 20.61	20 09.49	do	Do.
SW. corner sec. 31, T. 25, R. 27	49 36.18	20 09.60	do	Do.
SW. corner sec. 22, T. 25, R. 27	51 20.10	16 52.56	do	Do.
NW. corner sec. 8, T. 25, R. 30	54 01.44	38 42.51	do	Do.
NW. corner sec. 6, T. 27, R. 30	44 03.73	39 10.82	do	Do.
N. † corner sec. 30, T. 25, R. 32	51 29.25	52 23.63	do	Do.
N. † corner sec. 3, T. 27, R. 29	44 11.57	28 40.47	do	Do.
NE. corner sec. 22, T. 26, R. 25	46 46.72	01 54.87	do	Do.
NW. corner sec. 19, T. 25, R. 25	52 09.59	06 59.15	do	Do.
NE. corner sec. 18, T. 24, R. 31	58 25.98	45 17.15	do	Do.
E. † corner sec. 26, T. 25, R. 29	50 56.11	27 49.80	do	Do.
Ada	37 54 59.57	101 02 26.76	do	Do.
Basin	47 48.35	23 38.21	do	Do.
Deerfield schoolhouse	58 54.76	08 06.13	do	Do.
Hartland	55 17.46	22 32.83	do	Do.
Schoolhouse	53 21.06	22 03.49	do	Do.
Hummock	53 05.37	13 56.65	do	Do.

KANSAS—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	37°-38°	101°-102°		
	° ' "	° ' "		
Lakin schoolhouse.....	37 56 30.75	101 15 27.00	G. S.....	Bull. 122.
NW. corner sec. 11, T. 25, R. 36.....	54 00.98	14 53.67	do.....	Do.
NE. corner sec. 15, T. 24, R. 34.....	58 25.84	01 43.08	do.....	Do.
NW. corner sec. 15, T. 24, R. 34.....	58 25.27	02 49.03	do.....	Do.
W. ¼ corner sec. 34, T. 24, R. 37.....	55 17.81	22 32.94	do.....	Do.

MONTANA.

	48°-49°	104°-105°		
	° ' "	° ' "		
Big Horn.....	48 06 26.66	104 23 40.17	Mo. R. C.....	Rept. '91.
Big Muddy.....	09 47.47	34 02.50	do.....	Do.
Boulder.....	04 35.98	31 44.79	do.....	Rept. '94.
Box Elder.....	10 33.79	48 22.05	do.....	Rept. '91.
Devil's Elbow.....	06 08.14	44 40.85	do.....	Do.
Lanark.....	06 16.91	13 52.58	do.....	Do.
Montana.....	01 47.75	03 08.55	do.....	Do.
Mortar Stone.....	04 04.97	57 13.97	do.....	Do.
St. Ange.....	02 06.68	18 58.33	do.....	Do.
	48°-49°	105°-106°		
	° ' "	° ' "		
Deer Tail.....	48 07 35.92	105 04 11.31	do.....	Do.
Elk River.....	00 25.69	46 55.42	do.....	Do.
Hopkins.....	02 08.68	38 43.35	do.....	Do.
Macon.....	08 19.77	29 42.52	do.....	Do.
Oswego.....	04 22.75	51 26.01	do.....	Do.
Poplar.....	08 59.28	14 09.51	do.....	Do.
Red Water.....	02 37.76	09 02.55	do.....	Do.
Santee.....	03 27.58	55 59.62	do.....	Do.
Spread Eagle.....	03 36.87	27 32.59	do.....	Do.
Wolf Point.....	06 26.05	41 55.68	do.....	Do.
	48°-49°	106°-107°		
	° ' "	° ' "		
Galpin.....	48 05 17.67	106 26 06.81	do.....	Do.
Knityre.....	03 33.93	09 22.09	do.....	Do.
Lennox.....	04 11.32	00 58.51	do.....	Do.
Milk River.....	01 48.31	18 48.58	do.....	Do.
Nassau.....	05 36.59	18 22.52	do.....	Do.
Peck.....	00 11.09	32 38.43	do.....	Do.
	48°-49°	109°-110°		
	° ' "	° ' "		
Bear Paw.....	48 09 00.00	109 38 58.00	G. S.....	Bull. 122.
	48°-49°	110°-111°		
	° ' "	° ' "		
Coal banks.....	48 02 03.88	110 15 33.74	Mo. R. C.....	Rept. '91.
Old.....	03 26.97	09 39.62	do.....	Do.
Recess.....	00 49.09	20 01.91	do.....	Do.
Sandy.....	00 38.09	04 48.12	do.....	Do.
Shanks.....	00 08.83	14 22.37	do.....	Do.
	48°-49°	111°-112°		
	° ' "	° ' "		
Sweet Grass.....	48 50 52.60	111 22 21.00	G. S.....	Bull. 122.
	47°-48°	104°-105°		
	° ' "	° ' "		
Cut-off.....	47 59 47.20	104 09 54.16	Mo. R. C.....	Rept. '91.
Ferry.....	58 33.35	04 24.47	do.....	Do.
	47°-48°	105°-106°		
	° ' "	° ' "		
Amelia Poe.....	47 59 00.40	105 58 22.00	do.....	Do.
	47°-48°	106°-107°		
	° ' "	° ' "		
Bone Bluffs.....	47 59 41.26	106 09 55.95	do.....	Do.
Double Hill.....	49 41.74	41 27.69	do.....	Do.
Dry Fork.....	56 41.03	22 37.37	do.....	Do.
Featherland.....	42 33.32	50 33.24	do.....	Rept. '94.
Five Pines.....	46 52.24	52 18.35	do.....	Rept. '91.
Hell Creek.....	39 47.17	53 31.71	do.....	Do.
Juniper.....	53 44.55	34 18.87	do.....	Do.
Last Pine.....	50 53.27	29 17.43	do.....	Do.
Norris.....	44 37.67	40 43.43	do.....	Rept. '94.
	47°-48°	107°-108°		
	° ' "	° ' "		
Above.....	47 32 03.84	107 54 20.64	do.....	Rept. '91.
Ball Rock.....	39 29.88	30 57.03	do.....	Do.
Below.....	30 31.59	50 14.12	do.....	Do.
Cowboy.....	28 31.05	55 47.75	do.....	Do.
Cut-off.....	34 08.71	54 33.34	do.....	Do.
Dogtown.....	36 20.51	32 31.11	do.....	Do.
East base.....	38 18.80	39 18.11	do.....	Do.
Elk.....	36 16.75	44 01.10	do.....	Do.
Forgey.....	39 16.00	39 41.14	do.....	Do.
Gibson.....	38 11.41	12 31.62	do.....	Do.
Grizzly.....	41 58.88	00 13.20	do.....	Do.

MONTANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference
	47°-48°	107°-108°		
Horn	47 35 59.26	107 40 47.11	Mo. R. C.	Rept. '91.
Hornet	32 38.22	50 38.27	do	Do.
Lake	35 03.16	56 40.76	do	Do.
Little Snow	38 34.53	03 20.67	do	Do.
Mussel Shell	29 50.20	55 29.51	do	Rept. '86.
Do	29 20.98	52 02.33	do	Do.
Do	26 20.74	54 16.00	do	Rept. '94.
Mussel Shell Cowboy	28 16.80	55 46.48	do	Rept. '86.
Nest	30 44.69	48 31.92	do	Rept. '91.
Pike	33 23.66	57 46.33	do	Do.
Raid	30 04.46	55 30.78	do	Do.
Rock Peak	43 18.56	24 39.82	do	Do.
Seven Black Feet	38 36.12	23 05.48	do	Do.
Three Canyon	42 24.37	11 22.41	do	Do.
Track	53 08.75	43 45.43	do	Do.
Tail	36 59.04	37 19.34	do	Rept. '94.
West base	37 48.39	41 32.56	do	Rept. '91.
Wilson	34 03.26	47 01.22	do	Do.
Williams	29 35.23	52 03.60	do	Do.
	47°-48°	108°-109°		
Across	47 35 01.82	108 05 55.67	do	Do.
Armel	36 25.62	38 57.90	do	Do.
Autumn	36 28.04	24 43.91	do	Do.
Bend	43 12.03	54 59.54	do	Do.
Brevier	36 01.95	36 05.20	do	Do.
Buffalo	38 56.75	40 38.60	do	Do.
Calf Island	37 59.82	44 03.36	do	Do.
Carroll, astronomic monument	34 48.00	24 00.00	Engr. Corps.	Rept. '76.
Carroll	33 33.51	21 15.46	Mo. R. C.	Rept. '91.
Cow Island	45 37.23	57 32.53	do	Do.
Creek	37 30.45	29 27.15	do	Do.
Crystal	42 00.81	52 22.07	do	Do.
Fortress	44 34.39	51 10.03	do	Do.
Frost	35 42.61	01 32.91	do	Do.
Grand Island	42 09.59	46 57.53	do	Do.
Harriet	38 08.92	36 04.82	do	Do.
Hawley	37 19.61	05 52.90	do	Do.
Kammuck	35 35.00	10 04.69	do	Do.
Landing	46 18.05	54 36.27	do	Do.
Line	33 51.19	07 46.80	do	Do.
Lopp	34 40.37	25 48.83	do	Do.
Plain	35 47.63	16 04.09	do	Do.
Quarter	40 03.27	48 54.73	do	Do.
Rocky Point	35 05.31	28 12.45	do	Do.
Ryan	35 30.56	20 19.07	do	Do.
Ryan Island	34 09.05	16 23.59	do	Do.
Sage	33 51.08	12 31.44	do	Do.
Slide	33 52.69	00 48.98	do	Do.
Snake Point	49 15.20	58 36.32	do	Do.
Willow	40 24.04	44 17.96	do	Do.
	47°-48°	109°-110°		
Arrow	47 41 16.56	109 48 25.54	do	Do.
Bear	44 33.20	26 43.77	do	Do.
Bird	45 47.33	08 35.83	do	Do.
Chimney	46 33.61	15 42.08	do	Do.
Camp Lewis	08 47.00	26 30.00	Engr. Corps.	Rept. '76.
Council	46 25.29	35 22.22	Mo. R. C.	Rept. '91.
Dauphin	43 44.99	21 54.71	do	Do.
Gallatin	42 35.84	27 45.47	do	Do.
Holmes	43 35.91	31 39.21	do	Do.
Iron City	45 22.32	31 02.96	do	Do.
Judith	13 07.90	13 15.60	G. S.	Bull. 122.
Do	42 32.35	37 48.91	Mo. R. C.	Rept. '91.
Lone Pine	47 45.88	19 42.25	do	Do.
Pablos	45 41.21	51 01.26	do	Do.
Pinnacles	48 14.73	57 00.84	do	Do.
Pines	41 14.31	42 49.03	do	Do.
Plateau	43 06.51	44 54.96	do	Do.
Rapids	46 06.09	22 48.14	do	Do.
Rondeau	44 04.21	54 17.48	do	Do.
Spruce	46 19.96	02 38.70	do	Do.
Sturgeon	48 43.10	04 14.66	do	Do.
Tip Top	44 02.31	49 46.99	do	Do.
Valley	44 48.93	42 20.15	do	Do.
Wall	46 32.02	59 10.46	do	Do.
Windsor	48 32.66	11 49.10	do	Do.
	47°-48°	110°-111°		
Arrow	47 25 40.70	110 31 35.90	G. S.	Bull. 122.
Benton	48 46.57	41 58.56	Mo. R. C.	Rept. '91.

MONTANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	47°-48°	110°-111°		
Benton—Continued.				
Flagstaff, Fort Benton	47 48 50.00	110 39 48.00	Mo. R. C.	Rept. '86.
Hub	50 07.77	39 54.78	do	Do.
Black Bluff	54 14.75	26 45.31	do	Do.
Brule	51 12.81	30 24.63	do	Rept. '91.
Burned	57 21.22	03 37.90	do	Do.
Castle	53 35.28	02 53.16	do	Do.
Cherry	43 13.38	47 17.84	do	Do.
Citadel	50 32.65	02 30.41	do	Do.
Crocon	52 33.58	34 41.82	do	Do.
East base	50 40.25	40 04.27	do	Do.
Fort Benton	49 38.00	39 48.00	Engr. Corps.	Rept. '76.
Flagstaff	49 03.97	39 49.88	Mo. R. C.	Rept. '91.
Harvey	50 36.73	33 53.53	do	Do.
Highwood	59 23.28	52 42.02	do	Do.
Hub	50 22.02	39 56.05	do	Do.
Iron	59 10.69	08 35.43	do	Do.
Kipp	52 03.18	05 35.18	do	Do.
Labarge	49 22.72	04 55.60	do	Do.
Marias	56 22.17	29 10.45	do	Do.
Mound	58 47.44	17 50.70	do	Do.
Ridge	59 24.12	26 04.38	do	Do.
Shanks	59 54.58	14 21.10	do	Rept. '86.
Shonkin	49 46.05	36 51.86	do	Rept. '91.
Sheperd	34 56.62	56 19.23	do	Do.
Sidney	45 54.63	58 38.04	do	Do.
Tele	54 23.77	32 07.22	do	Do.
Teton	52 13.47	43 04.88	do	Do.
Three Islands	56 39.54	22 33.62	do	Do.
Tunis	48 21.61	49 09.03	do	Do.
Wellman	54 40.87	05 38.27	do	Do.
West base	50 11.78	42 22.60	do	Do.
White Cliffs	55 49.34	05 53.22	do	Do.
	47°-48°	111°-112°		
Antelope	47 26 31.90	111 25 39.49	do	Do.
Belt	31 56.14	01 44.37	do	Do.
Big Bend	21 56.84	16 47.17	do	Do.
Bromedy	32 02.94	08 14.02	do	Do.
Cascade	16 57.73	42 35.55	do	Do.
Craig	08 08.17	57 39.28	do	Do.
Divide	18 18.23	31 35.45	do	Do.
Earley	35 24.18	06 59.64	do	Do.
Epler	26 27.04	21 28.03	do	Do.
Fort Shaw	30 33.06	48 19.50	Engr. Corps.	Rept. '76.
Great Falls	29 44.61	15 01.52	Mo. R. C.	Rept. '91.
Hardy	13 01.29	48 39.11	do	Do.
Henry	30 35.42	11 24.85	do	Do.
Muddy Creek	21 32.05	35 28.17	do	Do.
North Great Falls	31 49.87	15 26.23	do	Do.
Portage	39 16.64	05 17.12	do	Do.
Porter	33 51.22	10 36.12	do	Do.
Sand Conlee	25 53.99	16 35.23	do	Do.
Sheep Creek	10 09.45	42 23.21	do	Do.
St. Clair	14 45.84	37 02.99	do	Do.
Stickney	06 53.30	51 11.28	do	Do.
Shaw	26 29.70	44 56.70	G. S.	Bull. 122.
Sugarloaf	09 53.40	54 14.73	Mo. R. C.	Rept. '91.
Sun River	28 44.79	21 13.92	do	Do.
Transfer	31 23.80	19 48.32	do	Do.
Ulm	26 23.11	31 04.52	do	Do.
Wagner	04 54.28	55 41.24	do	Do.
Wilson	24 03.17	24 39.61	do	Do.
	47°-48°	112°-113°		
Keep Cool	47 07 08.20	112 44 21.20	G. S.	Bull. 122.
Rock Creek	03 28.37	00 32.99	Mo. R. C.	Rept. '91.
Rocky	48 53.50	48 03.10	G. S.	Bull. 122.
Wolf Creek	00 38.41	03 34.61	Mo. R. C.	Rept. '91.
	47°-48°	113°-114°		
McDonald	47 23 11.00	113 55 18.00	G. S.	Bull. 122.
	46°-47°	105°-106°		
Fort Keogh	46 23 11.65	105 56 53.08	Engr. Corps.	Rept. '79.
	46°-47°	107°-108°		
East base (Custer Z. station)	46 07 55.70	107 31 00.30	G. S.	Bull. 122.
Terry	10 36.20	36 12.00	do	Do.
West base	06 10.60	33 18.10	do	Do.
	46°-47°	109°-110°		
Big Snowy	46 45 12.30	109 18 48.80	do	Do.
	46°-47°	110°-111°		
Brewer Springs	46 32 50.00	110 55 40.00	Engr. Corps.	Rept. '76.
Crazy	01 13.10	16 36.20	G. S.	Bull. 122.

MONTANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	46°-47°	110°-111°		
Elk	46 27 17.60	110 45 12.30	G. S.	Bull. 122.
Moss Agate Springs	23 40.00	53 30.00	Engr. Corps..	Rept. '76.
Neihart	58 15.10	36 22.50	G. S.	Bull. 122.
	46°-47°	111°-112°		
American	46 50 00.68	111 53 07.21	Mo. R. C.	Rept. '91.
Beattie	00 30.20	27 08.39	do.....	Do.
Beaver Creek	29 06.93	34 59.09	do.....	Do.
B. T. Mountain	53 53.48	59 03.10	do.....	Do.
Blackwell	36 46.75	35 45.27	do.....	Do.
Boulder	17 46.30	54 14.00	do.....	Do.
Bridge	20 24.18	32 05.67	do.....	Do.
Camp Baker	40 44.00	11 00.00	Engr. Corps..	Rept. '76.
Canyon Ferry	38 43.09	44 22.38	Mo. R. C.	Rept. '91.
Carolus	05 41.54	21 58.72	do.....	Do.
Confederate	30 13.77	31 09.79	do.....	Do.
Degau	34 43.24	40 19.41	do.....	Do.
Deep Creek	18 38.94	26 28.25	do.....	Do.
Dougherty	09 55.63	28 40.36	do.....	Do.
Duck Creek	27 18.96	28 06.48	do.....	Do.
El Dorado	44 31.80	48 44.29	do.....	Do.
Toston	10 06.61	23 48.50	do.....	Do.
Fuller	41 10.76	45 20.00	do.....	Do.
Geary	33 12.86	32 12.82	do.....	Do.
Hilger	46 10.07	55 48.43	do.....	Do.
Hossfeld	15 42.71	30 19.67	do.....	Do.
Howard	12 42.93	30 34.69	do.....	Do.
Junction	01 03.34	30 31.21	G. S.	Bull. 122.
Lone Bush	08 52.28	22 26.53	Mo. R. C.	Rept. '91.
Magpie	02 59.68	22 22.11	do.....	Do.
Marks	24 21.71	26 35.96	do.....	Do.
Maxwell	40 25.96	40 00.33	do.....	Do.
Mitler	59 45.10	55 42.40	do.....	Do.
Ox Bow	57 33.89	59 28.12	do.....	Do.
Ox Bow (Moore Mountain)	55 54.80	44 01.10	do.....	Do.
Painted Rock	07 49.71	24 57.99	do.....	Do.
Pinnacle	05 36.80	24 12.72	do.....	Do.
Prickly Pear	43 11.57	53 26.59	do.....	Do.
Reed	25 58.97	33 54.40	do.....	Do.
Reeves	13 36.79	25 37.74	do.....	Do.
Sawyer	02 51.66	25 44.60	do.....	Do.
Squires	31 36.85	36 45.88	do.....	Do.
Stubbs	39 38.06	51 04.31	do.....	Do.
Willow Creek	56 23.28	53 00.14	do.....	Do.
	46°-47°	112°-113°		
Mitchell	46 58 56.00	112 16 54.00	G. S.	Bull. 122.
Powell	21 07.30	58 48.60	do.....	Do.
	45°-46°	107°-108°		
Abbott (Abbott's Urn)	45 40 48.80	107 22 59.50	do.....	Do.
Custer	34 30.40	16 50.10	do.....	Do.
Far West	36 43.50	47 04.30	do.....	Do.
Little Horn	03 26.00	25 49.70	do.....	Do.
Mesa	49 37.50	50 50.30	do.....	Do.
Pine Ridge	59 14.60	39 34.70	do.....	Do.
Reno	11 08.30	26 42.70	do.....	Do.
Red Bluff	02 16.90	11 33.30	do.....	Do.
Rosebud	20 41.20	11 32.40	do.....	Do.
Rotten Grass	21 06.60	33 51.70	do.....	Do.
Ryan	54 22.10	27 07.00	do.....	Do.
	45°-46°	108°-109°		
Absaroka	45 42 39.70	108 08 56.70	do.....	Do.
Billings	42 59.30	27 32.20	do.....	Do.
Boundary	31 13.70	35 48.50	do.....	Do.
Canyon	50 03.20	47 40.90	do.....	Do.
Mauvaise Terre	33 41.90	19 41.10	do.....	Do.
	45°-46°	109°-110°		
Granite	45 09 56.00	109 48 22.00	do.....	Do.
Shane	30 45.30	08 11.50	do.....	Do.
Stillwater	35 23.00	34 16.20	do.....	Do.
White Beaver	50 05.20	18 01.80	do.....	Do.
Wilson	51 48.10	39 10.10	do.....	Do.
	45°-46°	110°-111°		
Bozeman, Station X	45 41 15.30	110 59 19.20	Wheeler	Do.
Bridger Mountain	47 36.80	56 15.60	G. S.	Do.
Electric Peak	00 27.04	50 15.05	do.....	Do.
Emigrant Peak	15 54.13	42 25.35	do.....	Do.
Fort Ellis, flagstaff	40 13.45	58 30.97	Wheeler	Do.
Grassy Knoll	41 42.64	59 00.18	G. S.	Do.
Haystack	11 55.89	13 17.58	do.....	Do.

MONTANA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	45°-46°	110°-111°		
Livingston.....	25 35 30.60	110 27 33.60	G. S.....	Bull. 122.
Pass.....	30 39.80	01 08.40	do.....	Do.
	45°-46°	111°-112°		
Blackmore, mountain.....	45 26 48.02	111 00 13.40	do.....	Do.
Bozeman:				
Astronomical station.....	40 51.92	02 36.64	do.....	Do.
North base.....	42 45.29	06 26.08	do.....	Do.
South base.....	39 09.64	04 02.09	do.....	Do.
Station Y.....	40 00.52	01 37.08	Wheeler.....	Do.
Campbell.....	56 55.82	29 09.18	Mo. R. C.....	Rept. '91.
Cedar Knoll.....	39 03.61	13 36.46	G. S.....	Bull. 122.
Cedar Hill.....	56 43.20	27 44.22	Mo. R. C.....	Rept. '91.
Clarke.....	59 58.75	23 05.51	do.....	Do.
Gallatin.....	22 13.27	21 56.86	G. S.....	Bull. 122.
Do.....	56 07.65	28 43.28	Mo. R. C.....	Rept. '91.
Huntley.....	57 50.20	25 42.38	do.....	Do.
North base.....	55 43.36	30 04.84	do.....	Do.
Point 5.....	51 24.87	09 12.76	G. S.....	Bull. 122.
South base.....	54 58.35	29 43.63	Mo. R. C.....	Rept. '91.
Spring.....	57 57.52	28 10.92	do.....	Do.
	45°-46°	112°-113°		
Jefferson.....	45 36 49.38	112 00 29.62	G. S.....	Bull. 122.
Tweedy.....	28 57.00	57 56.60	do.....	Do.
	44°-45°	111°-112°		
Hilgard.....	44 55 08.17	111 27 32.99	do.....	Do.
Sawtelle.....	33 56.05	26 40.33	do.....	Do.

WYOMING.

	44°-45°	107°-108°		
Cloud Peak.....	44 23 00.20	107 10 23.00	G. S.....	Bull. 122.
	44°-45°	109°-110°		
Index Peak.....	44 58 36.60	109 53 04.00	Hayden.....	Rept. '77.
Do.....	58 41.88	52 53.07	G. S.....	Bull. 122.
	44°-45°	110°-111°		
Sheridan.....	44 16 06.02	110 31 44.81	do.....	Do.
Washburne.....	47 58.95	26 01.85	do.....	Do.
	43°-44°	104°-105°		
Northwest corner of Nebraska.....	43 00 04.20	104 02 49.60	do.....	
	43°-44°	106°-107°		
Fort McKinney.....	43 47 05.60	106 15 12.75	Engr. Corps..	Rept. '78.
	43°-44°	108°-109°		
Alamocita Peak.....	43 11 56.00	108 28 17.00	Wheeler.....	Rept. '79.
	43°-44°	109°-110°		
Fremont Peak.....	43 07 28.50	109 37 17.30	Hayden.....	Rept. '77.
Washakie Needle.....	44 51.70	12 19.70	do.....	Do.
Yount Peak.....	59 02.76	51 58.28	G. S.....	Bull. 122.
	43°-44°	110°-111°		
Gros Ventre Peak.....	43 16 54.40	110 14 00.50	Hayden.....	Rept. '77.
Hayden Mountain.....	44 29.60	48 22.80	do.....	Do.
Hoback Peak.....	05 04.20	34 27.30	do.....	Do.
	42°-43°	104°-105°		
Fort Laramie flagstaff.....	42 12 01.31	104 33 27.27	Engr. Corps..	Rept. '78.
	42°-43°	105°-106°		
Fort Fetterman.....	42 50 26.26	105 29 12.60	L. S.....	Final Rept.
Laramie Peak.....	16 00.00	26 50.00	Hayden.....	Rept. '77.
	42°-43°	107°-108°		
Rattlesnake Peak.....	42 10 01.70	107 03 35.90	do.....	Do.
Seminole Peak.....	15 23.50	14 30.00	do.....	Do.
Whiskey Peak.....	18 36.70	34 34.50	do.....	Do.
	42°-43°	108°-109°		
Yellow Butte.....	42 16 05.30	108 43 18.00	do.....	Do.
	42°-43°	109°-110°		
Atlantic Peak.....	42 36 59.30	109 00 16.50	do.....	Do.
Mount Bonneville.....	51 35.10	20 48.20	do.....	Do.
New Fork Peak.....	59 58.30	35 36.90	do.....	Do.
West Atlantic Peak.....	37 17.20	01 07.30	do.....	Do.
Wind River Peak.....	42 29.70	09 54.50	do.....	Do.

WYOMING—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° / ' "	110°-111° ° / ' "		
Wyoming Peak	42 36 14.90	110 37 39.70	Hayden	Rept. '77.
Cheyenne:	41°-42°	104°-105°		
Astronomical station	41 07 46.62	104 48 51.30	Wheeler	Rept. '73.
Railroad depot	07 57.77	49 11.65	do	Rept. '79.
Russell, Fort D. A., flagstaff	08 38.83	50 24.47	do	Do.
	41°-42°	105°-106°		
Ames	41 07 54.55	105 23 44.32	G. S.	Bull. 122.
Antelope	22 10.06	34 23.14	do	Do.
Astronomical pier	18 51.80	35 33.60	do	Do.
County road	21 02.92	42 16.45	do	Do.
Dale	10 54.33	27 39.88	do	Do.
Fort Sanders flagstaff	17 26.89	34 59.56	Wheeler	Rept. '73.
Jelm	05 52.06	58 28.70	G. S.	Bull. 122.
Laramie	18 51.80	35 33.60	Wheeler	Rept. '72.
Lindsey	06 17.33	38 14.08	G. S.	Bull. 122.
Quartzite	25 34.91	27 27.53	do	Do.
Rock Creek station, river bank of	50 25.72	52 24.60	Engr. Corps.	Rept. '78.
Rock Creek				
Sherman	07 50.00	23 33.15	C. & G. S.	Rept. '84.
Soda	20 10.28	35 02.97	G. S.	Bull. 122.
University	18 47.09	34 53.75	do	Do.
	41°-42°	106°-107°		
Fort Fred Steele flagstaff	41 46 50.63	106 56 54.27	Wheeler	Final Rept.
Medicine Bow	21 39.40	18 54.20	G. S.	Bull. 122.
Mount Steele	50 14.80	59 59.60	Hayden	Rept. '77.
	41°-42°	107°-108°		
Cherokee Peak	41 48 54.60	107 19 42.80	do	Do.
East end of Rawlins base line	25 23.40	18 15.00	do	Do.
Rawlins Peak	48 14.90	16 14.90	do	Do.
Separation Peak	38 14.40	23 53.50	do	Do.
West end of Rawlins base line	46 16.50	21 30.60	do	Do.
	41°-42°	108°-109°		
Black Butte	41 33 29.40	108 48 12.70	do	Do.
Essex Mountain	58 22.20	58 20.60	do	Do.
	41°-42°	109°-110°		
Green River, astronomical observatory	41 31 38.12	109 28 06.57	Wheeler	Final Rept.
Pilot Butte	38 34.00	21 19.60	Hayden	Rept. '77.
	41°-42°	110°-111°		
Medicine Butte	41 21 06.50	110 54 42.50	do	Do.

COLORADO.

	40°-41° ° / ' "	102°-103° ° / ' "		
Julesburg, astronomical station	40 59 07.63	102 21 32.30	Wheeler	Final Rept.
Long's Peak	40°-41°	105°-106°		
Long's Peak	40 15 20.80	105 36 38.20	Hayden	Rept. '76.
Park View Peak	40°-41°	106°-107°		
Park View Peak	40 19 52.20	106 07 53.20	do	Do.
	39°-40°	103°-104°		
Holt	39 02 15.73	103 57 48.43	C. & G. S.	Do.
Hugo	04 27.83	30 20.07	do	Do.
Coulson's house, chimney	07 55.27	27 50.43	do	Do.
Schoolhouse chimney	08 03.59	27 50.35	do	Do.
Section-house chimney	07 52.85	27 27.93	do	Do.
Overland	02 15.04	09 46.75	do	Do.
Subsidiary station	05 46.45	32 01.30	do	Do.
	39°-40°	104°-105°		
Denver, Coast Survey astronomical station	39 45 21.71	104 59 31.94	do	Rept. '82.
Denver:				
East end of base	45 52.20	47 39.20	Hayden	Rept. '76.
West end of base	46 22.70	54 25.30	do	Do.
Schoolhouse	45 00.70	59 23.40	do	Do.
Derrick station	43 54.80	57 08.90	do	Do.
Divide	04 10.08	30 15.64	C. & G. S.	
Dry Creek station	56 57.00	55 51.80	Hayden	Do.
Holcolm Hills	00 02.96	18 30.86	C. & G. S.	
Hughes, astronomical station	59 24.09	48 58.80	Wheeler	Final Rept.

COLORADO—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40°	105°-106°		
Evans, Mount.....	39 35 21.30	105 38 21.90	Hayden.....	Rept. '76.
Georgetown.....	42 36.36	41 27.64	Wheeler.....	Final Rept.
Morrison, Mount.....	40 12.40	12 55.30	Hayden.....	Rept. '76.
Platte Peak.....	15 40.50	05 49.00	do.....	Do.
South Boulder Peak.....	57 15.60	17 42.10	do.....	Do.
Torrey Peak.....	38 37.40	48 01.10	do.....	Do.
	39°-40°	106°-107°		
Ashcroft.....	39 02 28.60	106 46 43.40	G. S.....	Bull. 122.
Bien's Station, 12.....	08 36.70	52 22.40	do.....	Do.
Bien's Station, 47.....	13 17.40	44 10.50	do.....	Do.
Castle Peak.....	00 29.80	51 44.00	do.....	Do.
Highland.....	07 40.20	52 39.90	do.....	Do.
Holy Cross Mountain.....	28 05.20	28 39.10	Hayden.....	Rept. '76.
La Plata Mountain.....	01 50.30	28 09.20	do.....	Do.
Lincoln, Mount.....	21 09.10	06 26.80	do.....	Do.
Powell, Mount.....	45 41.10	20 10.20	do.....	Do.
	39°-40°	107°-108°		
Chair Mount.....	39 03 24.00	107 17 00.60	G. S.....	Bull. 122.
Leon Peak.....	04 51.00	50 24.70	Hayden.....	Rept. '76.
North Mam.....	23 16.60	51 43.80	do.....	Do.
Snow Mass.....	07 02.70	04 03.20	G. S.....	Bull. 122.
Sopris Peak:				
North end.....	15 52.90	10 21.10	Hayden.....	Rept. '76.
Middle summit.....	15 36.20	09 57.40	G. S.....	Bull. 122.
Treasury.....	00 46.20	06 00.70	do.....	Do.
	38°-39°	102°-103°		
Eureka.....	38 58 34.79	102 51 17.19	C. & G. S.....	
First View.....	47 37.47	32 26.54	do.....	
Section-house chimney.....	48 57.02	31 58.53	do.....	
Kit Carson.....	42 02.30	51 06.24	do.....	
Landsman.....	56 47.11	34 46.24	do.....	
	38°-39°	103°-104°		
Adobe.....	38 40 35.56	103 32 47.47	do.....	
Arroya.....	48 04.70	10 26.74	do.....	
Section-house chimney.....	51 15.33	07 35.32	do.....	
Cramer Gulch.....	35 30.87	55 25.46	do.....	
Square Bluffs.....	51 03.08	49 14.73	do.....	
	38°-39°	104°-105°		
Bear Creek.....	38 48 51.97	104 52 52.02	do.....	
Besores ranch, chimney.....	59 10.76	28 21.04	do.....	
Big Springs.....	45 01.22	14 40.77	do.....	
Colorado City, schoolhouse, south-east chimney.....	50 43.76	51 09.31	do.....	Rept. '82.
Colorado Springs.....	49 58.02	49 06.14	do.....	Do.
United States Coast Survey station.....	50 00.30	49 07.60	do.....	Do.
Public school flagstaff.....	50 06.21	48 58.63	do.....	Do.
Corps of Engineers, astronomical station.....	49 38.69	49 16.47	do.....	Do.
College cupola.....	50 47.92	49 01.66	do.....	Do.
Corral Bluffs.....	52 06.45	35 05.34	do.....	Do.
El Paso:				
West base (1879).....	58 37.96	34 50.31	do.....	
East base (1879), astronomical station.....	57 17.10	27 12.98	do.....	
Glen Eyre.....	53 54.14	53 58.95	do.....	
Munson and Hamblin's barn.....	57 28.92	27 09.04	do.....	
Pemington, house chimney.....	58 42.62	41 57.72	do.....	
South Pueblo.....	15 42.84	36 57.53	Wheeler.....	
	38°-39°	105°-106°		
Clayton Cone.....	38 12 58.20	105 55 29.30	Hayden.....	Rept. '76.
Hunt Peak.....	23 03.30	50 30.50	do.....	Do.
Labran, astronomical monument.....	23 08.97	06 17.78	Wheeler.....	Do.
Pikes Peak.....	50 21.11	02 08.30	C. & G. S.....	
Rito Alto Peak.....	13 14.20	45 10.10	Hayden.....	Do.
San Luis base:				
South end.....	15 14.00	57 07.00	do.....	Do.
North end.....	19 40.30	59 04.40	do.....	Do.
	38°-39°	106°-107°		
Agency Peak.....	38 16 30.70	106 51 47.60	do.....	Do.
Gunnison, northeast corner Virginia avenue and Wisconsin street.....	32 42.13	55 39.49	do.....	Do.
Harvard Mount.....	55 32.20	19 01.30	do.....	Do.
Hunt Peak.....	25 23.40	13 10.40	Wheeler.....	Final Rept.
Observatory Cone.....	34 40.60	51 36.70	do.....	Do.
Ouray Mount.....	25 26.10	13 15.70	Hayden.....	Rept. '76.
Princeton Mount.....	45 01.30	14 19.20	do.....	Do.
Station 23.....	16 34.60	06 00.60	do.....	Do.

COLORADO—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39°	106°-107°		
Station 24.....	38 19 34.20	106 12 52.90	Hayden	Rept. '76.
Station 33.....	01 27.80	55 11.40	do	Do.
	38°-39°	107°-108°		
Blaine Peak	38 00 14.00	107 47 22.00	Wheeler	Final Rept.
Carbon Mountain	47 38.60	02 23.90	do	Do.
Handie Peak	54 46.20	30 05.50	do	Do.
Horsefly Mount	11 42.50	55 38.60	do	Do.
Mears Peak	01 50.10	54 23.40	do	Do.
Sneffels Mount	00 19.00	47 18.70	Hayden	Rept. '76.
Uncompahgre Peak	04 23.00	27 30.10	do	Do.
West Elk Peak	43 09.20	11 44.20	do	Do.
Wetterhorn	03 45.60	30 30.90	Wheeler	Final Rept.
	38°-39°	108°-109°		
Grand Mesa	38 53 34.00	108 10 26.00	do	Do.
	37°-38°	104°-105°		
Fisher Peak	37 05 59.60	104 27 31.90	Hayden	Rept. '76.
East Spanish Peak	23 40.50	54 59.90	do	Do.
West Spanish Peak	22 37.60	59 24.30	do	Do.
Trinidad, United States Coast Survey station.	10 13.80	30 07.50	do	Do.
	37°-38°	105°-106°		
Blanca Peak	37 34 43.50	105 28 55.40	do	Do.
Culebra Peak	07 25.10	10 56.30	do	Do.
Crestone Peak	58 05.30	34 54.00	do	Do.
Garland, Fort, flagstaff	25 27.33	25 33.73	Wheeler	Rept. '79.
	37°-38°	106°-107°		
Banded Peak	37 06 21.60	106 37 24.50	Hayden	Rept. '76.
Conejos Peak	17 24.50	34 02.40	do	Do.
Del Norte Peak	28 58.00	25 53.00	Wheeler	Final Rept.
Del Norte Hill	40 13.80	21 25.50	do	Do.
Macomb Peak	34 25.40	58 43.00	do	Do.
Meigs Peak	21 01.50	41 38.80	do	Do.
San Luis Peak	59 16.80	55 39.20	Hayden	Rept. '76.
Station 23	35 18.10	32 16.40	do	Do.
Station 81	02 30.60	37 31.60	do	Do.
South River Peak	34 31.70	58 40.20	do	Do.
Summit Peak	21 07.30	41 35.40	do	Do.
	37°-38°	107°-108°		
Æolus Mount	37 37 39.40	107 36 15.40	Wheeler	Final Rept.
Bristol Head	47 34.50	03 17.90	do	Do.
Buffalo Peak	36 24.40	29 26.80	do	Do.
Canby Mount	46 54.60	30 50.00	do	Do.
Engineer Mountain	41 57.10	48 14.10	do	Do.
Glacier Mount	50 20.70	59 20.00	do	Do.
Pagosa Peak	26 43.10	03 47.20	Hayden	Rept. '76.
Pole Creek Mountain	47 30.50	25 25.70	Wheeler	Final Rept.
Red Cloud Peak	56 26.70	25 07.80	do	Do.
Rio Grande Pyramid	40 52.20	23 19.20	Hayden	Rept. '76.
Simpson Mount	40 53.70	23 11.30	Wheeler	Final Rept.
Sultan Mountain	47 09.60	42 03.60	do	Do.
Wilson Mount	50 26.40	59 16.90	Hayden	Rept. '76.
	37°-38°	108°-109°		
Dunn Peak	37 50 24.20	108 05 37.20	Wheeler	Final Rept.
Hesperis Peak	26 44.20	05 02.20	Hayden	Rept. '76.
Lone Cone	53 19.20	15 04.40	do	Do.
Ute Peak	17 03.00	46 42.50	G. S	Bull. 122.

NEW MEXICO.

	36°-37°	103°-104°		
Carriso	36 09 12.70	103 58 35.90	G. S	Bull. 122.
	36°-37°	104°-105°		
Cimarron, astronomical monument ..	36 30 10.01	104 54 59.04	Engr. Corps ..	Rept. '76.
Laughlin	37 33.20	11 08.00	G. S	Bull. 122.
	36°-37°	105°-106°		
Costilla Peak	36 50 06.00	105 13 09.40	Hayden	Rept. '76.
Ocate	05 42.90	03 38.30	G. S	Bull. 122.
Taos Peak	33 23.00	24 46.00	Wheeler	Final Rept.
	36°-37°	106°-107°		
Copper	36 01 59.90	106 51 16.80	G. S	Bull. 122.
Langley	00 23.00	23 03.30	do	Do.
Plaza La Nutria	42 04.63	23 40.99	Engr. Corps ..	Rept. '76.
Santa Clara Mountain	00 25.80	22 54.00	Wheeler	Final Rept.

NEW MEXICO—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	36°-37° //	107°-108° //		
La Huerfano.....	36 25 34.10	107 50 41.20	G. S.....	Bull. 122
	36°-37°	108°-109°		
San Juan Needfe.....	36 41 15.20	108 49 50.40	Hayden.....	Rept. '76.
	35°-36°	104°-105°		
Aguilar.....	35 22 43.10	104 59 37.60	G. S.....	Bull. 122.
Canadian.....	59 03.60	35 15.10	do.....	Do.
Corazon.....	27 09.80	33 57.40	do.....	Do.
Montoya.....	43 21.00	09 43.30	do.....	Do.
	35°-36°	105°-106°		
Baldy.....	35 49 57.50	105 45 27.90	do.....	Do.
Bernal Hill.....	22 33.00	19 38.40	Wheeler.....	Final Rept.
Escobas Peak.....	32 02.00	42 45.00	do.....	Do.
Fort Union.....	54 24.86	00 51.15	Engr. Corps.	Rept. '73.
Jacinto.....	05 26.00	26 59.40	G. S.....	Bull. 122.
Las Truchas Mountain.....	57 40.70	38 39.10	Wheeler.....	Final Rept.
Las Vegas.....	35 27.66	13 27.57	do.....	Do.
Rincon.....	46 03.10	33 11.40	G. S.....	Bull. 122.
Santa Fe.....	41 19.29	56 45.22	Wheeler.....	Final Rept.
Thompson.....	40 22.10	48 22.90	G. S.....	Bull. 122.
Albuquerque:	35°-36°	106°-107°		
Armijo House, flagstaff.....	35 05 02.25	106 39 11.64	do.....	Bull. 49.
Grant Block, flagstaff.....	05 03.12	39 11.09	do.....	Do.
San Felipe Hotel, flagstaff, Gold avenue.....	04 59.78	39 21.02	do.....	Do.
Astronomic pier.....	04 32.40	39 12.47	do.....	Do.
Catholic church cross.....	05 09.70	39 23.04	do.....	Do.
Jemes.....	41 44.70	51 30.60	do.....	Do.
Placer Mountain.....	20 03.40	10 36.00	Wheeler.....	Final Rept.
Sandia.....	14 07.30	27 22.00	G. S.....	Bull. 122.
Tetilla Peak.....	36 24.30	13 00.80	Wheeler.....	Final Rept.
SW. corner sec. 17, T. 10 N., R. 3 E.....	05 13.26	39 35.66	G. S.....	Bull. 122.
	35°-36°	107°-108°		
Taylor.....	35 14 20.70	107 36 29.20	do.....	Do.
	35°-36°	108°-109°		
Astronomical pier.....	35 30 51.38	108 32 27.32	do.....	Do.
Chusca.....	53 06.70	50 14.50	do.....	Do.
East base.....	30 17.80	30 28.08	do.....	Do.
Fort Wingate, flagstaff.....	28 49.47	32 20.00	Wheeler.....	Final Rept.
Hosta.....	35 13.50	11 29.90	G. S.....	Bull. 122.
McKenzie.....	21 18.70	26 35.10	do.....	Do.
Nell.....	25 13.50	37 24.90	do.....	Do.
Pyramid.....	33 18.80	37 01.10	do.....	Do.
Square Mesa.....	13 07.70	16 46.90	do.....	Do.
Twins.....	29 39.80	50 04.50	do.....	Do.
West base.....	31 48.38	34 30.74	do.....	Do.
Zuni.....	07 25.90	54 40.30	do.....	Do.
	34°-35°	104°-105°		
Jospinto No. 1.....	34 56 42.00	104 57 10.00	do.....	Do.
Jospinto No. 2.....	56 36.80	56 57.20	do.....	Do.
	34°-35°	105°-106°		
Pedernal.....	34 50 44.00	105 38 38.30	do.....	Do.
Pedernal Peak.....	50 38.50	39 04.20	Wheeler.....	Final Rept.
Rattlesnake Hill.....	34 07.50	49 41.40	do.....	Do.
Tecolote Peak.....	04 37.00	41 44.00	do.....	Do.
	34°-35°	106°-107°		
Manzano Peak.....	34 35 23.20	106 27 12.20	do.....	Do.
Mosca Peak.....	48 36.50	24 34.50	do.....	Do.
Osha Peak.....	38 09.30	26 43.60	do.....	Do.
	34°-35°	107°-108°		
Ladrones.....	34 26 01.00	107 05 29.50	do.....	Do.
	34°-35°	108°-109°		
Pinon.....	34 11 51.10	108 27 52.10	G. S.....	Bull. 122.
	33°-34°	105°-106°		
Blanca Peak.....	33 22 24.00	105 48 55.00	Wheeler.....	Final Rept.
Capitan Peak.....	35 24.40	16 20.30	do.....	Do.
East Carrizo Cone.....	38 59.60	37 17.50	do.....	Do.
Fort Stanton, flagstaff.....	29 35.72	31 59.72	do.....	Do.
Nogal Peak.....	29 47.50	48 36.20	do.....	Do.
	33°-34°	106°-107°		
Colorado Mountain.....	33 50 42.00	106 42 06.00	do.....	Do.
Salinas Peak.....	17 50.60	32 15.00	do.....	Do.
	33°-34°	107°-108°		
Caballo Cone.....	33 06 01.80	107 13 40.40	do.....	Do.
Fort Craig, flagstaff.....	38 00.99	01 07.96	do.....	Do.

NEW MEXICO—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	33°-34° ° / "	107°-108° ° / "		
Fra Cristobal Mount	33 25 35.00	107 07 10.10	Wheeler	Final Rept.
Mount Magdalena	59 23.20	11 39.10	do	Do.
San Mateo Mountain	33 07.30	26 04.90	do	Do.
	33°-34°	108°-109°		
Eagle Peak	33 40 33.20	108 34 41.30	do	Do.
Horse Peak	58 38.20	07 29.90	do	Do.
Round Peak	40 28.70	06 06.70	do	Do.
Tuleroso	40 37.70	34 34.90	G. S.	Bull. 122.
	32°-33°	105°-106°		
Cornuda	32 01 28.44	105 30 57.65	do	Do.
	32°-33°	106°-107°		
Organ Mountain	32 20 34.40	106 33 40.50	Wheeler	Final Rept.
	32°-33°	107°-108°		
Florida Peak	32 07 18.30	107 37 19.20	do	Do.
Mount Cooke	32 01.40	43 53.90	do	Do.
Sunday Cone	37 08.50	26 54.00	do	Do.
	32°-33°	108°-109°		
Bear Peak	32 50 00.70	108 21 31.60	do	Do.
Black Peak	54 26.00	09 46.90	do	Do.
Fort Bayard, astronomical monument	47 40.35	09 08.77	do	Do.
	31°-32°	106°-107°		
Rodadero Peak	31 47 10.30	106 32 31.70	do	Do.
	31°-32°	107°-108°		
Potrillo Peak	31 55 21.00	107 04 07.00	do	Do.
	31°-32°	108°-109°		
Hacheta Peak	31 37 58.20	108 23 57.00	do	Do.
Lalacha Peak	50 21.20	27 13.60	do	Do.

ARIZONA.

	36°-37° ° / "	109°-110° ° / "		
Calabasa	36 22 18.30	109 50 16.70	G. S.	Bull. 122.
Pastora	47 25.10	09 52.80	do	Do.
Roof Butte	27 37.10	05 31.40	do	Do.
Sonsala	06 05.20	04 41.70	do	Do.
	36°-37°	110°-111°		
Wilson	36 12 48.30	110 09 13.60	do	Do.
	36°-37°	111°-112°		
Paria Needle	36 51 00.60	111 40 54.60	Powell	Do.
Paria Station	50 49.20	40 47.70	do	Do.
	36°-37°	112°-113°		
Brink	36 26 01.60	112 25 11.60	do	Do.
Brow	35 25.00	23 56.70	do	Do.
Duffer	56 50.10	00 50.20	do	Do.
Kanab:				
North	57 46.50	31 21.40	do	Do.
South	54 04.10	31 50.90	do	Do.
New	55 29.80	35 36.40	do	Do.
Pipe	52 37.30	48 37.40	do	Do.
Pipe Springs, camp near	51 36.34	42 57.00	Wheeler	Rept. '76.
Shinarump	57 53.90	26 45.00	Powell	Bull. 122.
Three Trees	59 27.60	41 51.30	do	Do.
	36°-37°	113°-114°		
Emma	36 15 50.20	113 10 12.40	G. S.	Do.
	35°-36°	109°-110°		
Crofton	35 11 39.30	109 06 51.80	do	Do.
Douglas	09 08.60	52 35.10	do	Do.
Iola	26 18.40	38 10.60	do	Do.
Zilh Tusayan	53 11.70	14 55.10	do	Do.
	35°-36°	110°-111°		
Cottonwood	35 30 26.70	110 18 59.60	do	Do.
Oraibe	52 50.40	42 49.20	do	Do.
	35°-36°	111°-112°		
San Francisco	35 20 47.00	111 40 37.80	do	Do.
	35°-36°	112°-113°		
Bill Williams	35 11 59.60	112 12 15.40	do	Do.
Floyd	23 33.60	43 24.10	do	Do.
	35°-36°	113°-114°		
Hualapai	35 04 30.20	113 53 48.30	do	Do.

ARIZONA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	35°-36° " " "	114°-115° " " "		
Dead	35 16 30.30	114 43 20.30	G. S.	Bull. 122.
Fort Mohave	02 09.00	35 54.00	Wheeler ..	Final Rept.
Tipton	32 21.10	11 30.10	G. S.	Bull. 122.
	34°-35°	109°-110°		
Haseltine	34 59 24.30	109 26 43.10	do	Do.
	34°-35°	110°-111°		
Chevron	34 41 33.80	110 50 52.10	do	Do.
Sunset	54 14.70	57 39.80	do	Do.
Woodruff	47 56.70	02 31.10	do	Do.
	34°-35°	111°-112°		
Baker Butte	34 27 08.60	111 22 39.60	do	Do.
Mazatzal	03 45.70	27 38.50	do	Do.
	34°-35°	112°-113°		
Granite	34 38 17.00	112 33 08.30	do	Do.
Fort Whipple	33 06.12	27 10.20	Wheeler ..	Final Rept.
	34°-35°	113°-114°		
Aquarius	54 56 56.20	113 17 51.00	G. S.	Bull. 122.
	33°-34°	109°-110°		
Ord Peak	33 56 16.00	109 36 15.80	do	Do.
Thomas Peak	54 24.10	34 16.00	Wheeler ..	Final Rept.
	33°-34°	111°-112°		
Brown Peak	33 41 04.20	111 19 29.60	G. S.	Bull. 122.
	32°-33°	109°-110°		
Graham	32 41 58.90	109 52 18.90	Wheeler ..	Final Rept.

UTAH.

	41°-42° " " "	111°-112° " " "		
Barton Mountain	41 04 51.80	111 51 19.90	Wheeler ..	Final Rept.
Kimballs Mountain	57 40.00	13 57.00	do	Do.
Lake View Peak	57 35.90	14 07.30	Hayden ..	Rept. '77.
Naomi Peak	54 38.90	40 46.30	Wheeler ..	Final Rept.
North Lyon Peak	54 39.00	40 46.50	Hayden ..	Rept. '77.
North Ogden Mountain	21 44.80	57 53.60	Wheeler ..	Final Rept.
Observatory Peak	11 56.80	53 09.60	do	Do.
Ogden, stone post in observatory	13 08.56	59 56.10	L. S.	
Ogden Peak	11 56.70	53 09.50	Hayden ..	Rept. '77.
Porcupine Mountain	01 07.00	07 06.80	Wheeler ..	Final Rept.
Willard Peak	21 44.90	57 53.10	Hayden ..	Rept. '77.
	41°-42°	112°-113°		
Black Butte	41 55 36.00	112 07 37.00	Wheeler ..	Final Rept.
Blue Spring Peak	47 36.00	32 54.40	do	Do.
Box Elder Peak	38 05.90	01 07.30	do	Do.
Promontory Mountain	29 21.80	30 44.90	do	Do.
South Promontory Mountain	18 45.80	27 04.90	do	Do.
	41°-42°	113°-114°		
Clear Creek Mountain	41 41 22.50	113 44 44.00	do	Do.
Newfoundland Mountain	11 06.70	22 19.20	do	Do.
Tangent Peak	28 50.60	10 42.20	do	Do.
	40°-41°	111°-112°		
Camp Douglas :				
New flagstaff	40 45 47.50	111 50 14.22	do	Do.
Old flagstaff	45 47.58	50 14.07	do	Rept. '76.
Sundial	45 47.47	50 13.92	Engr. Corps.	Do.
Provo (old Camp Rawlins)	13 47.84	40 27.00	Wheeler ..	Repts. '72-73.
Salt Lake City	46 04.00	53 47.10	C. & G. S.	Rept. '84.
Spanish Fork	05 13.50	31 40.70	Powell ..	Bull. 122.
West Twin Peak	35 44.40	43 41.80	Wheeler ..	Final Rept.
	40°-41°	112°-113°		
Antelope Island	40 57 40.40	112 13 12.10	do	Do.
Provo	13 47.84	49 27.00	do	Rept. '76.
	40°-41°	113°-114°		
Deep Creek	40 06 01.71	113 57 16.05	do	Do.
Desert Mountain	57 02.40	47 36.20	do	Final Rept.
	39°-40°	109°-110°		
Culmination	39 11 27.10	109 46 47.50	Powell ..	Bull. 122.
	39°-40°	110°-111°		
Bruin	39 38 37.10	110 20 56.40	do	Do.
Indian Head	51 44.20	53 26.40	do	Do.
Red Plateau	10 14.00	37 10.90	do	Do.

UTAH—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	39°-40° " " "	111°-112° " " "		
Bare Brush	39 04 08.70	111 18 39.10	Powell	Bull. 122.
Ephraim	23 25.60	45 06.60	do	Do.
Fayette	12 31.50	49 20.30	do	Do.
Gunnison:				
Astronomical station	09 25.62	49 15.00	Wheeler	Final Rept.
North	08 28.30	49 16.20	Powell	Bull. 122.
South	03 10.20	49 16.20	do	Do.
Jura	04 49.70	46 00.60	do	Do.
Musinia	02 08.30	34 40.60	do	Do.
Nebo	48 35.40	45 59.70	do	Do.
South Tent	23 29.10	21 28.20	do	Do.
Valley	05 38.30	56 20.00	do	Do.
	39°-40° " " "	112°-113° " " "		
Canyon Range	39 23 30.70	112 12 26.50	do	Do.
	38°-39° " " "	109°-110° " " "		
Peale	38 26 18.10	109 13 44.30	G. S.	Do.
Waas	32 21.20	13 39.70	do	Do.
Do	32 18.60	13 41.80	Powell	Do.
	38°-39° " " "	110°-111° " " "		
Ellen	38 07 14.30	110 48 53.00	do	Do.
	38°-39° " " "	111°-112° " " "		
Black Cap	38 57 16.30	111 49 15.70	do	Do.
Fort Cameron	16 53.34	44 00.31	Wheeler	Final Rept.
Hilgard	41 00.40	32 38.20	Powell	Bull. 122.
Marvine	40 02.90	38 28.30	do	Do.
Thousand Lake	24 58.50	28 45.30	do	Do.
	38°-39° " " "	112°-113° " " "		
Beaver, astronomical monument near center of public square.	38 16 23.28	112 38 35.90	Wheeler	Final Rept.
Belknap	25 06.60	24 45.50	Powell	Bull. 122.
Katherine	59 35.00	08 24.70	do	Do.
Richfield	46 11.40	02 27.00	Wheeler	Final Rept.
	37°-38° " " "	109°-110° " " "		
Abajo	37 50 22.50	109 27 43.70	G. S.	Bull. 122.
	37°-38° " " "	110°-111° " " "		
Navajo Mountain	37 02 02.90	110 52 08.70	do	Do.
Pennell	57 21.40	47 27.90	Powell	Do.
	37°-38° " " "	111°-112° " " "		
Table Cliff	37 41 08.70	111 54 08.60	do	Do.
	37°-38° " " "	112°-113° " " "		
Adams	37 55 53.80	112 12 20.90	do	Do.
Brian	40 49.30	49 53.10	do	Do.
John	02 52.50	30 56.70	do	Do.
Kanab, monument in square in front of Bishop's residence.	02 25.43	31 39.00	Wheeler	Rept. '76.
Little Creek	52 48.40	36 43.40	Powell	Bull. 122.
Mansard	02 52.30	25 22.00	do	Do.
Mollie	16 12.30	03 18.60	do	Do.
Navajo Well	03 36.70	16 45.00	do	Do.
Pink Cliff	25 02.70	19 21.10	do	Do.
Street	02 55.85	31 50.83	do	Do.
Titbithing Yard	02 55.90	31 50.00	do	Do.
	37°-38° " " "	113°-114° " " "		
St. George	37 06 29.38	113 35 00.30	Wheeler	Final Rept.
Toquerville	15 19.88	16 20.90	do	Rept. '76.

NEVADA.

	41°-42° " " "	114°-115° " " "		
Pilot Knob	41 01 12.20	114 04 51.50	Wheeler	Final Rept.
	41°-42° " " "	119°-120° " " "		
Division Peak	41 05 46.10	119 15 31.50	do	Do.
Mahogany Mount	01 26.40	33 17.90	do	Do.
Forty-nine Peak	33 24.00	55 23.00	do	Do.
Plute Peak	16 43.00	03 23.00	do	Do.
Yellow Mesa Peak	50 05.00	37 15.80	do	Do.
	40°-41° " " "	115°-116° " " "		
Fort Halleck	40 48 34.35	115 19 34.05	do	Do.
Camp Ruby	03 38.63	31 06.75	do	Do.
Elko	49 38.44	45 37.20	do	Do.

NEVADA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	40°-41° " " "	116°-117° " " "		
Battle Mountain, astronomical monument.	40 38 18.74	116 56 13.50	Wheeler	Final Rept.
	40°-41°	117°-118°		
Granite Peak, south end	40 22 30.10	117 31 35.80	C. & G. S.	
Winnemucca, astronomical monument.	58 19.97	43 54.16	Wheeler	Do.
	40°-41°	118°-119°		
Star Peak (Indian Peak)	40 31 15.47	118 10 16.61	C. & G. S.	
	40°-41°	119°-120°		
Granite Peak	40 47 22.60	119 25 47.70	Wheeler	Do.
Tohakum Peak	10 40.20	27 07.60	do	Do.
State Line Peak	01 44.00	58 32.40	do	Do.
Do	01 42.10	58 45.40	G. S.	Bull. 122.
	39°-40°	115°-116°		
Hamilton	39 15 48.87	115 25 58.38	do	
Monte Cristo Mill	13 16.83	34 49.20	do	
	39°-40°	117°-118°		
Augusta Peak	39 32 18.58	117 55 11.91	C. & G. S.	
Austin, astronomical station	29 21.92	03 41.70	Wheeler	
Birchims Mount	08 53.60	28 33.50	do	Rept. '79.
Bunker Hill	15 05.02	07 35.83	C. & G. S.	
Cowles Peak	03 14.40	33 24.90	Wheeler	Do.
Desatoya:				
North Twin	22 04.20	45 36.80	C. & G. S.	
South Twin	21 49.41	45 34.53	do	
Emigrant Peak	24 10.20	23 20.10	Wheeler	Do.
Geneva Peak	21 27.00	04 14.90	do	Do.
Mount Grant	32 16.60	54 56.20	do	Do.
North Augusta	41 01.90	48 26.70	C. & G. S.	
Shoshone Peak:				
North	08 56.20	28 49.80	do	Do.
South	03 17.60	33 41.10	do	Do.
Toyabe Peak	21 28.71	04 32.74	do	Do.
	39°-40°	118°-119°		
Carson Sink	39 34 53.62	118 14 09.27	do	Do.
Carson Table	32 23.40	17 58.50	do	Do.
Fairview	13 24.86	09 10.77	do	Do.
Mount Lincoln	32 52.50	15 48.70	do	Do.
Tarogua Peak	34 51.70	13 54.20	Wheeler	Do.
	39°-40°	119°-120°		
Churchill Butte	39 20 16.30	119 17 32.20	do	Do.
Cleaver Peak	13 01.10	08 01.90	G. S.	Bull. 122.
Como	01 11.40	28 27.59	C. & G. S.	
Do	01 07.50	28 14.40	Wheeler	Final Rept.
Emma	17 39.30	36 00.90	do	Do.
Genoa	02 26.40	52 43.00	do	Do.
Genoa Peak	02 29.50	52 54.40	G. S.	Bull. 122.
McClellan Mountain	15 26.10	41 46.20	Wheeler	Final Rept.
Mount Davidson	18 21.90	39 37.20	do	Do.
Do	18 24.09	39 49.78	C. & G. S.	
Mount Lyon	07 33.20	23 12.40	Wheeler	Do.
Mount Rose	20 32.30	55 05.90	G. S.	Bull. 122.
Mucca, Elephant Peak	58 28.40	44 40.10	C. & G. S.	
Northeast base	25 43.00	25 39.00	Wheeler	Final Rept.
Fahrah	47 34.73	28 28.74	C. & G. S.	
Peavine Mountain	35 07.40	55 57.00	G. S.	Bull. 122.
Pond Summit	39 02.38	27 50.78	C. & G. S.	
Rawe Mountain	11 56.51	28 40.40	Wheeler	Final Rept.
Rocky Point	20 50.20	34 02.40	do	Do.
Rose Mountain	20 30.30	54 54.10	do	Do.
Sage	07 35.66	28 24.97	C. & G. S.	
Tibbie	22 08.60	31 54.60	Wheeler	Rept. '79.
Do	22 10.70	32 07.30	G. S.	Bull. 122.
Twotips Mount	42 52.80	09 46.60	Wheeler	Final Rept.
Two Tips, north summit	42 54.70	09 59.90	C. & G. S.	
Virginia City, astronomical monument.	17 35.92	39 06.35	do	
Virginia Peak	45 14.95	27 41.60	do	
Washoe Peak, monument.	20 32.24	55 05.68	do	
	38°-39°	117°-118°		
Lone Mountain	38 01 22.26	117 29 41.77	do	Do.
Paradise Peak	48 15.90	49 22.70	Wheeler	Do.
Poston Mount	49 48.40	20 56.00	do	Do.
Toyabe Dome	49 52.29	21 12.85	C. & G. S.	
	38°-39°	118°-119°		
Basalt Peak	38 59 09.80	118 25 59.00	Wheeler	Do.
Black Mount	56 19.40	54 39.60	G. S.	Bull. 122.

NEVADA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39°	118°-119°		
Cory Mount.....	38 33 57.40	118 47 15.90	Wheeler.....	Final Rept.
Mount Grant.....	34 07.83	47 30.60	C. & G. S.....	
Mount Hull (Cory's Peak).....	26 47.70	46 58.10	do.....	
Pilot Cone.....	59 12.86	26 14.06	do.....	
Volcano.....	23 37.50	09 35.20	do.....	
Wassuck, south peak.....	46 57.92	50 05.57	do.....	
	38°-39°	119°-120°		
Desert Creek Peak.....	38 36 45.20	119 18 58.00	G. S.....	Bull. 122.
Mount Wilson.....	50 57.90	13 14.50	do.....	Do.
Saddle Galena.....	53 17.41	30 09.33	C. & G. S.....	
Silver Lake Mountain.....	51 45.00	28 34.00	Wheeler.....	Final Rept.
	37°-38°	114°-115°		
Pioche, observatory.....	37 55 26.07	114 26 18.27	do.....	Do.
	37°-38°	117°-118°		
Montezuma Peak.....	37 41 35.50	117 21 45.70	C. & G. S.....	
	36°-37°	115°-116°		
Charleston.....	36 16 18.00	115 41 38.70	G. S.....	Bull. 122.

IDAHO.

	44°-45°	115°-116°		
Packer John.....	44 10 52.00	115 47 24.25	G. S.....	Bull. 122.
	44°-45°	116°-117°		
Big Willow.....	44 12 20.60	116 27 02.71	do.....	Do.
Squaw.....	00 09.66	24 45.96	do.....	Do.
Middle Weiser.....	42 37.77	16 14.15	do.....	Do.
Weiser.....	15 56.20	54 05.40	do.....	Do.
	43°-44°	111°-112°		
Baird, Mount.....	43 21 46.70	111 05 54.80	Hayden.....	Rept. '77.
Caribou Mountain.....	05 36.20	18 56.70	do.....	Do.
	43°-44°	113°-114°		
Big Butte.....	43 23 42.20	113 01 38.00	Wheeler.....	Final Rept.
	43°-44°	114°-115°		
Green Spring.....	43 12 48.03	114 54 49.34	G. S.....	Bull. 122.
Kelly, Mount.....	29 30.71	28 04.61	do.....	Do.
Smoky Dome.....	29 33.93	56 14.94	do.....	Do.
Snowy Side.....	56 16.25	58 21.50	do.....	Do.
	43°-44°	115°-116°		
Camas.....	43 14 54.66	115 26 08.64	do.....	Do.
Cinder.....	13 07.26	59 40.65	do.....	Do.
House.....	25 57.75	29 21.53	do.....	Do.
North.....	35 54.90	25 48.56	do.....	Do.
Three Point.....	30 21.70	56 07.48	do.....	Do.
	43°-44°	116°-117°		
Boise, astronomical pier.....	43 35 57.98	116 13 04.04	do.....	Do.
Caldwell.....	42 16.52	41 46.82	do.....	Do.
East base.....	32 43.47	10 19.64	do.....	Do.
Flat Top.....	15 44.31	53 11.56	do.....	Do.
Initial Point.....	22 18.20	23 42.80	do.....	Do.
Lucky Peak.....	36 17.84	03 45.61	do.....	Do.
Pickels Butte.....	29 18.21	42 49.56	do.....	Do.
Shafer.....	46 16.45	05 25.26	do.....	Do.
South Ridge, 1.....	30 50.88	13 43.64	do.....	Do.
South Ridge, 2.....	28 28.67	06 47.39	do.....	Do.
Star.....	46 23.49	25 00.00	do.....	Do.
Table Rock.....	35 35.69	08 45.34	do.....	Do.
West base.....	35 14.19	14 49.70	do.....	Do.
	42°-43°	111°-112°		
Bear Valley base:				
East end.....	42 27 18.90	111 19 48.00	Hayden.....	Rept. '77.
West end.....	27 22.70	22 04.00	do.....	Do.
Castle Rock.....	12 09.00	33 08.00	Wheeler.....	Final Rept.
East Hill.....	28 49.70	19 19.60	Hayden.....	Rept. '77.
North Hill.....	31 15.60	24 54.50	do.....	Do.
Paris Peak.....	12 08.80	33 11.80	do.....	Do.
Preuss Mount.....	29 42.60	15 11.00	do.....	Do.
Sedgwick Peak.....	30 54.00	55 39.90	Wheeler.....	Final Rept.
Soda Peak.....	27 53.70	33 11.40	Hayden.....	Rept. '77.
South Hill.....	23 41.10	23 34.40	do.....	Do.

IDAHO—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	42°-43° ° ' "	112°-113° ° ' "		
Bannock Peak.....	42 36 08.80	112 42 43.00	Wheeler	Final Rept.
Deep Creek Mountain.....	28 13.10	39 37.70	do	Do.
Elkhorn Mountain, north point.....	20 00.30	19 56.60	do	Do.
Oxford Peak.....	16 07.60	06 05.40	do	Do.
Putnam, Mount.....	57 10.60	10 09.40	Hayden	Rept. '77.
South Putnam Peak.....	55 03.40	07 53.60	Wheeler	Final Rept.
	42°-43° ° ' "	113°-114° ° ' "		
Badger Peak.....	42 33 00.90	113 04 01.00	do	Do.
Black Pine Mountains.....	07 08.50	07 27.90	do	Do.
Cache Peak.....	11 04.10	39 54.80	do	Do.
Cedar Creek Mountain.....	26 46.10	03 34.60	do	Do.
Pillar Butte.....	52 57.70	13 08.70	do	Do.
	42°-43° ° ' "	116°-117° ° ' "		
Quicksilver.....	42 58 48.47	116 39 32.46	G. S.	Bull. 122.

WASHINGTON.

	47°-48° ° ' "	117°-118° ° ' "		
Spokane Falls, monument one-fourth mile east of the town.	47 39 38.13	117 24 45.89	Engr. Corps.	Rept. '82.
	47°-48° ° ' "	122°-123° ° ' "		
Seattle.....	47 35 57.20	122 19 53.70	C. & G. S.	
Steilacoom:				
Presbyterian church.....	10 24.08	35 35.76	do	
Methodist church.....	10 23.03	35 50.88	do	
	46°-47° ° ' "	117°-118° ° ' "		
Colfax, monument on an island in Palouse River, at north end of the town.	46 53 13.69	117 23 29.13	Engr. Corps.	Do.
	46°-47° ° ' "	118°-119° ° ' "		
Wallawalla.....	46 03 55.89	118 20 50.14	Wheeler	Final Rept.
	46°-47° ° ' "	122°-123° ° ' "		
Kalama.....	46 00 17.80	122 50 33.20	C. & G. S.	
	46°-47° ° ' "	123°-124° ° ' "		
Alamicut River.....	46 13 03.13	123 41 59.19	do	
Astoria Point.....	11 23.65	50 29.35	do	
Bakers Bay.....	16 27.50	55 49.17	do	
Base on east end.....	18 12.74			

OREGON.

	45°-46° ° ' "	121°-122° ° ' "		
Dalles.....	45 35 50.80	121 13 11.20	Wheeler	Final Rept.
	42°-43° ° ' "	120°-121° ° ' "		
Baldy.....	42 07 03.70	120 43 06.90	G. S.	Bull. 122.
High Rock.....	29 42.70	52 40.40	do	Do.
Lolochevis Mountain.....	18 22.00	37 38.00	Wheeler	Final Rept.
North End Mountain.....	03 54.00	14 13.00	do	Do.
Sugarloaf Mountain.....	17 57.60	07 12.40	do	Do.
	42°-43° ° ' "	122°-123° ° ' "		
Pitt.....	42 26 36.40	122 13 58.40	G. S.	Bull. 122.
Scott.....	55 18.90	01 00.20	do	Do.
	42°-43° ° ' "	123°-124° ° ' "		
Kirby.....	42 13 08.20	123 27 42.60	do	Do.

CALIFORNIA.

	41°-42° ° ' "	120°-121° ° ' "		
Alturas Hill.....	41 28 57.70	120 32 43.00	Wheeler	Final Rept.
Bidwell Mount.....	56 52.60	07 49.80	do	Do.
Bidwell Fort, flagstaff.....	51 30.84	09 15.56	do	Do.
Cedar Mount.....	36 31.90	16 00.20	do	Do.
Eagle Mountain.....	16 56.00	11 51.40	do	Do.
Hat Mountain.....	03 57.00	05 47.90	do	Do.

CALIFORNIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	41°-42°	122°-123°		
Shasta	41 24 27.60	122 11' 42.90	G. S.	Bull. 122.
	40°-41°	120°-121°		
Fredonyer Peak	40 41 11.00	120 35 44.40	Wheeler	Final Rept.
Hot Springs Peak	22 24.80	07 07.30	do	Do.
Kettle Rock Peak	08 42.00	43 03.10	do	Do.
McKiesick Peak	05 22.90	14 43.10	do	Do.
McDonald Peak	56 23.20	24 55.70	do	Do.
Observation Peak	46 22.20	10 06.90	do	Do.
Schaffer Mount	26 43.10	21 18.00	do	Do.
South Fork Mountain	09 14.30	33 39.50	do	Do.
Thompson Peak	15 34.10	33 17.40	do	Do.
Warren Peak	22 38.70	12 59.60	do	Do.
	40°-41°	121°-122°		
Butt Mountain	40 12 58.20	121 23 02.10	do	Do.
Dyer Mount	14 15.20	01 48.40	do	Do.
Hoffman Butte	36 35.70	33 13.50	G. S.	Bull. 122.
Lassen Butte	29 11.21	30 16.21	C. & G. S.	Do.
	40°-41°	122°-123°		
Linn	40 02 05.70	122 51 16.50	G. S.	Do.
	40°-41°	123°-124°		
Thompson	40 58 15.20	123 00 09.90	do	Do.
	40°-41°	124°-125°		
Eureka, Methodist church	40 48 11.00	124 09 41.00	C. & G. S.	
	39°-40°	120°-121°		
Adams Mountain	39 54 32.20	120 05 43.20	Wheeler	Final Rept.
Banner Hill	14 39.40	57 56.60	G. S.	Bull. 122.
Castle Peak	21 48.60	20 47.30	Wheeler	Final Rept.
Crystal Peak	28 20.90	02 13.50	do	Do.
Downieville	35 29.80	38 39.30	do	Do.
Duncan Peak	08 32.10	30 33.90	G. S.	Bull. 122.
Fillmore	43 43.50	51 10.30	do	Do.
Haskell Peak	39 40.70	33 01.00	Wheeler	Final Rept.
Ingalls	59 33.70	37 40.10	G. S.	Bull. 122.
Lola	25 53.34	21 55.50	C. & G. S.	
Omjumi Peak	56 14.78	17 08.00	G. S.	Do.
Summit Peak	42 03.50	08 37.30	do	Do.
Twin Peak	06 39.30	13 56.30	do	Do.
Wellington Mountain	51 59.90	31 40.60	Wheeler	Final Rept.
	39°-40°	121°-122°		
Big Bar Hill	29 46 32.70	121 25 40.00	G. S.	Bull. 122.
Chico	43 25.20	50 51.30	do	Do.
Marysville Butte	12 15.70	49 15.40	do	Do.
Pike County Peak	38 24.30	12 10.00	do	Do.
Rock Mountain	03 28.00	13 58.00	do	Do.
	38°-39°	119°-120°		
Cary Peak, Monument Peak	38 44 13.42	119 52 21.99	C. & G. S.	
Dunderberg Peak	03 43.20	16 16.60	Wheeler	Final Rept.
Dardanelles Cone	24 11.50	52 20.70	G. S.	Bull. 122.
Elephant Mount	39 40.00	59 54.00	Wheeler	Final Rept.
Freels Peak, Jobs Peak	51 21.79	54 01.84	C. & G. S.	
Highland Peak	32 31.94	45 21.40	G. S.	Bull. 122.
Leviathan	40 54.70	36 43.70	do	Do.
Silver Mountain:				
North Peak monument	33 56.66	45 29.68	C. & G. S.	
South Peak monument	32 31.94	45 21.31	do	Do.
Sonora	21 08.25	38 09.18	G. S.	Bull. 122.
Stevens Mountain	43 52.90	58 44.40	Wheeler	Final Rept.
Sweet Water	26 07.60	18 19.60	C. & G. S.	
	38°-39°	120°-121°		
Alder Hill	38 37 40.00	120 16 40.84	G. S.	Bull. 122.
Bald Mountain	54 09.20	42 19.20	do	Do.
Baltic Peak	41 33.60	30 57.00	do	Do.
Bear Mountain	01 08.50	35 08.40	do	Do.
Blue Mountain	20 26.20	21 55.00	do	Do.
Buena Vista	16 06.80	54 51.80	do	Do.
Crossman	27 49.20	32 01.00	do	Do.
Jackson	20 18.30	43 17.40	do	Do.
Joaquin	08 15.20	41 24.90	do	Do.
Mokelumne Peak	32 12.12	05 41.34	do	Do.
Pine Hill	43 04.40	59 26.70	do	Do.
Pyramid Mountain	50 32.60	09 20.60	Wheeler	Final Rept.
Robb Peak	55 24.30	24 14.00	G. S.	Bull. 122.
Round Top	39 43.63	00 04.99	C. & G. S.	
Sugar Loaf	34 43.00	50 59.30	G. S.	Do.
Capitol	34 30.70	29 38.10	do	Do.

CALIFORNIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	38°-39°	122°-123°		
Helena	38 40 04.26	122 38 01.41	C. & G. S.	
Sulphur Peak	45 46.74	50 40.84	do	
Vaco	22 27.02	05 05.61	do	
	38°-39°	123°-124°		
Ross Mountain	38 30 13.03	123 07 09.77	do	
Sanel	56 48.23	13 00.87	do	
	37°-38°	118°-119°		
McBride Peak	37 50 08.00	118 21 12.60	Wheeler	Final Rept.
Morgan Mount.	24 07.20	43 46.90	do	Do.
Waucoba Peak	01 07.80	00 23.20	do	Do.
White Mountain:				
North summit	50 13.77	21 26.34	C. & G. S.	
South summit	37 57.60	15 22.10	do	
	37°-38°	119°-120°		
Chiquita Peak	37 20 46.80	119 25 31.80	Wheeler	Do.
Clark Peak	41 42.00	25 44.10	G. S.	Bull. 122.
Cloud Rest	45 53.20	29 11.80	Wheeler	Final Rept.
Conness	57 55.97	19 18.10	C. & G. S.	
Cottonwood Peak	55 30.90	44 07.30	G. S.	Bull. 122.
Dana	53 54.30	13 17.40	C. & G. S.	Do.
Deadwood Peak	18 36.70	41 00.20	Wheeler	Final Rept.
Devils Peak	31 40.20	44 26.90	G. S.	Bull. 122.
Engineer Peak	49 55.00	23 35.00	Wheeler	Rept. '79.
Green Mountain Peak	15 43.60	59 19.60	do	Do.
Hoffman	50 43.50	30 39.20	G. S.	Bull. 122.
Lyell	44 16.60	16 19.00	do	Do.
Merced Mountain	37 54.90	23 30.60	Wheeler	Final Rept.
Pilot Peak	45 39.80	56 10.90	G. S.	Bull. 122.
Wade Peak	51 08.50	47 16.90	Wheeler	Final Rept.
	37°-38°	120°-121°		
Big Canyon	37 58 01.50	120 07 13.00	G. S.	Bull. 122.
Big Hill	49 37.30	34 08.80	do	Do.
Bullion Peak	33 27.60	04 33.70	do	Do.
Moccasin Peak	48 12.50	19 43.00	do	Do.
Schultz Mount	26 33.10	08 32.90	Wheeler	Final Rept.
	37°-38°	121°-122°		
Hamilton	37 20 23.00	121 30 31.35	do	Do.
Mount Diablo	52 48.70	54 51.95	C. & G. S.	
San Jose, mission church	32 00.08	54 10.27	do	
Santa Clara, Catholic spire	20 49.00	56 26.00	do	
	37°-38°	122°-123°		
Bald	37 52 56.19	122 13 20.48	G. S.	Do.
Lawson Hill	56 34.00	11 36.00	do	Do.
Monument South	50 55.88	11 35.52	do	Do.
Mulholland Hill	51 26.00	08 36.00	do	Do.
Redwood Peak	49 00.00	10 37.00	do	Do.
Rocky Island	53 42.00	21 21.00	do	Do.
Striped Hill	56 49.00	17 17.00	do	Do.
Yerba Buena	48 30.00	21 59.00	do	Do.
	36°-37°	117°-118°		
Maturango Mountain	36 06 56.30	117 29 49.90	Wheeler	Do.
New York Butte	38 40.80	55 56.40	do	Do.
Telescope Mountain	09 52.40	05 27.20	do	Do.
Wahguyhe Mountain	56 03.50	06 15.60	do	Do.
	36°-37°	118°-119°		
Corcoran Mount.	36 31 14.00	118 14 23.80	do	Do.
Olancha Peak	15 43.80	07 10.20	do	Do.
Thunder Mountain	04 52.20	34 40.70	do	Do.
Whitney Mount	34 33.00	17 32.00	do	Do.
	36°-37°	119°-120°		
Fresno	36 43 31.22	119 47 19.50	do	Repts. '79, '80
	35°-36°	117°-118°		
Pilot Knob	35 23 32.10	117 13 49.70	do	Final Rept.
	35°-36°	118°-119°		
Camp Weldon (mountain)	35 40 01.00	118 17 05.00	do	Do.
Cooks Point (mountain)	37 09.00	26 30.40	do	Do.
Nichols Point	37 00.50	18 05.20	do	Do.
Owens Peak	44 05.40	00 00.50	do	Do.
Pahute Peak	28 37.60	21 49.80	do	Do.
Sunday Peak	46 48.50	35 17.30	do	Do.
Tehachapai Double Peak	01 47.00	29 25.50	do	Do.
Tehachapai Mount	02 21.30	34 35.60	do	Do.
Grizzly Peak	05 52.70	50 54.70	do	Do.

CALIFORNIA—Continued.

Name.	Latitude.	Longitude.	Authority.	Reference.
	34°-35°	117°-118°		
Jurupa	34 01 51.60	118 26 37.10	G. S.	Bull. 122.
Pomona	00 58.00	46 54.00	do	Do.
Potato	01 14.00	17 52.00	do	Do.
San Antonio Peak	17 06.20	39 14.10	Wheeler	Final Rept.
San Jose	03 17.00	51 06.00	G. S.	Bull. 122.
Strawberry	13 49.00	14 10.00	do	Do.
Zanja	03 32.00	04 09.00	do	Do.
	34°-35°	118°-119°		
Disappointment Peak	34 14 49.80	118 06 54.80	Wheeler	Final Rept.
Raymond	07 20.00	08 57.00	G. S.	Bull. 122.
Saddle (Malaga) Mountain	04 33.50	39 17.20	Wheeler	Final Rept.
San Fernando Peak	19 39.30	36 01.90	do	Do.
Sister Else	16 00.00	14 19.60	do	Do.
Workman Hill	00 48.40	01 14.50	do	Do.
	34°-35°	119°-120°		
McGill Mount	34 48 43.90	119 08 52.60	do	Do.
White Granite Mountain	36 34.00	07 55.10	do	Do.
	33°-34°	116°-117°		
Roderick	33 13 56.40	116 54 14.00	G. S.	Bull. 122.
San Jacinto Mountain	49 07.90	42 22.20	Wheeler	Final Rept.
Woodson	00 25.10	58 17.80	G. S.	Bull. 122.
	33°-34°	117°-118°		
Box Springs	33 57 36.10	117 16 54.00	do	Do.
Burnt	12 04.40	04 00.90	do	Do.
Centipede	09 32.00	00 18.00	do	Do.
Double Butte	43 21.00	07 28.00	do	Do.
Elsinore	36 03.10	20 39.80	do	Do.
High Knob	12 38.10	11 06.50	do	Do.
Kelley	09 42.30	19 23.80	do	Do.
Lancaster	19 13.20	08 08.50	do	Do.
Los Angeles, SE. base (1890)	47 28.38	56 36.08	C. & G. S.	Do.
Margarita	26 34.50	23 30.00	G. S.	Do.
Mora	17 54.40	16 14.70	do	Do.
Niguel	30 39.30	44 06.80	do	Do.
Onofre	21 44.80	29 45.50	do	Do.
San Joaquin	36 15.40	48 46.90	do	Do.
San Juan	54 43.90	44 21.08	C. & G. S.	Do.
Santiago	42 32.40	32 07.00	G. S.	Do.
Temescal Mountain	42 31.00	32 04.00	Wheeler	Rept. '79.
Whitney	06 25.90	09 22.20	G. S.	Bull. 122.
Wire	13 31.40	22 05.30	do	Do.
	33°-34°	118°-119°		
San Pedro Hill	33 44 39.20	118 20 07.80	Wheeler	Final Rept.
Workman	59 24.00	00 14.00	G. S.	Bull. 122.
	32°-33°	116°-117°		
Cuyamaca	32 56 42.20	116 36 26.70	do	Do.
San Miguel	41 41.00	56 14.00	do	Do.
	32°-33°	117°-118°		
Black	32 58 47.40	117 07 02.00	do	Do.
Cowles	48 39.90	01 58.00	do	Do.
San Diego, transit	43 06.00	09 40.80	C. & G. S.	Rept. '84.

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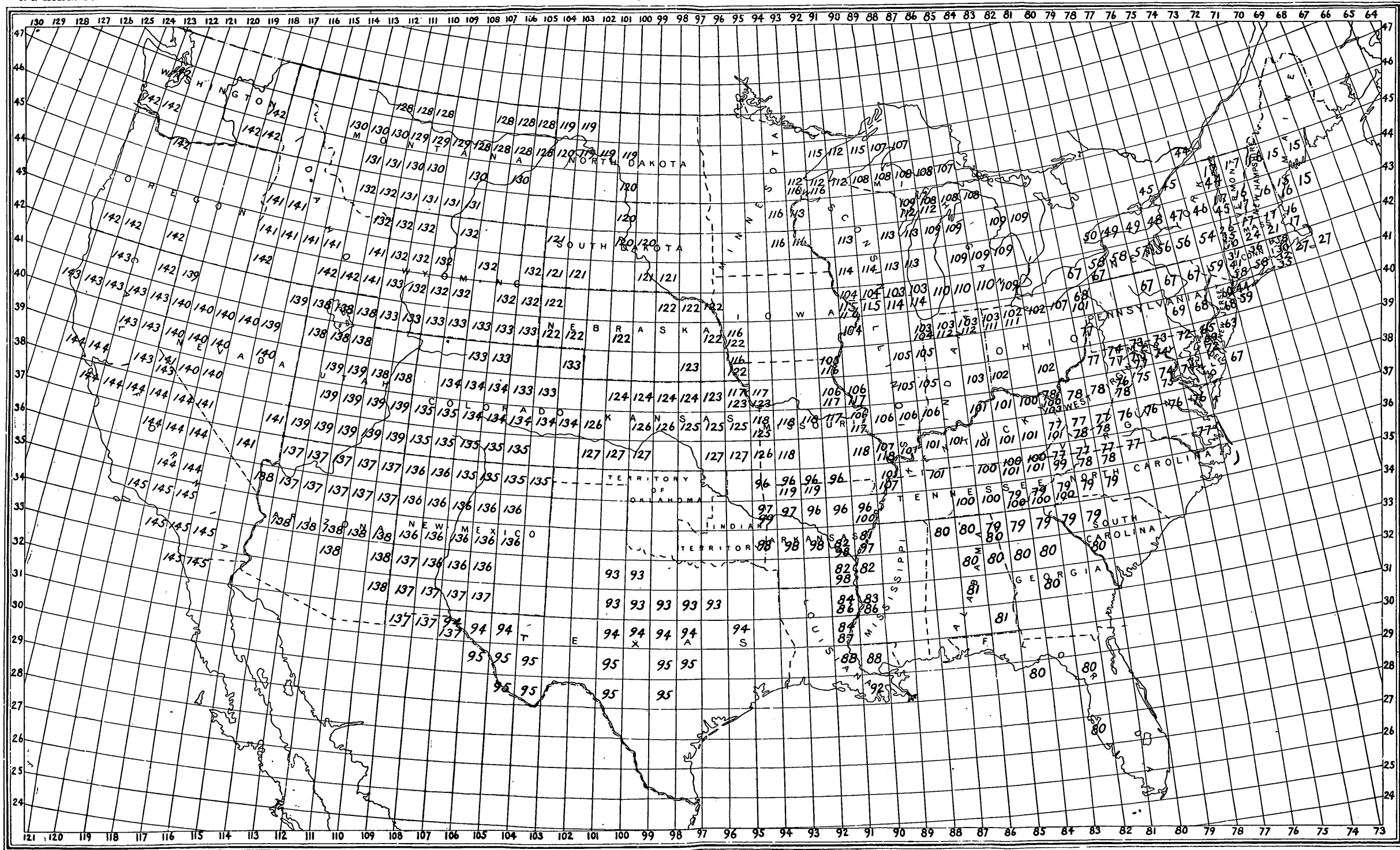
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