SPIRIT LEVELING IN NEW YORK
1896-1905 AND 1912-1916

R. B. MARSHALL, CHIEF GEOGRAPHER

Work done in cooperation with the State
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ILLUSTRATION.

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GEOLOGICAL SURVEY BENCH MARKS.

A. Tablet used in cooperating States. The State name is inserted at G.
B and D. Copper temporary bench mark, consisting of a nail and copper washer.
A, C, and E. Tablets for stone or concrete structures.
F. Iron post used where there is no rock.

R. B. MARSHALL, Chief Geographer.

INTRODUCTION.

Cooperation.—The State of New York contributed financially to the work during the years 1896 to 1905 and from 1912 to 1916, inclusive, being represented by the office of the State engineer and surveyor.

Previous publication.—The following results of spirit leveling are supplemental to and accord with the elevations contained in Bulletin 514, and are in agreement with the 1912 adjustment of precise leveling. Descriptions and elevations of bench marks in Bulletin 281 are reprinted in this volume with corrections and additions.

Bulletin 514 and this bulletin together contain practically all results of leveling in New York State by the United States Geological Survey, the Coast and Geodetic Survey, the U. S. Lake Survey, the New York State Survey, the Board of Deep Waterways, and by the Corps of Engineers, United States Army. These elevations are likely to be changed but little by any future adjustment.

Corrections.—The following corrections to Bulletin 514 should be noted:

Pages 13–17, Lyon Mountain and Dannemora quadrangles: Connection made in 1912 with Coast and Geodetic Survey bench mark at Plattsburg necessitated a readjustment of elevations, and the corrected results are published in this volume.

Pages 17–18, Massena and Potsdam quadrangles: As a result of additional connections, circuits were readjusted in November, 1916, and corrected elevations are published in this volume.

Page 25, Beaver Falls, 3 miles west of, etc.: Permission to move bench mark granted April 21, 1915. Croghan, 70 feet south of railroad, etc.: Bench mark has been reset in new steps, but no record of its elevation has been received.

Page 30, Morris, in northwest side of main entrance to high school, etc.: Elevation should be 1,158.077 feet.

Page 33, insert "South" before New Berlin, for bench mark stamped "1059 ALBANY."

Page 34, Meridale, arch bridge over Ouleout Creek, etc.: Bench mark reset November 29, 1915, at elevation 1,801.740 feet.

Page 36, Parksville, 3.5 miles southeast of, etc.: Bench mark settled, new elevation 1,684.554 feet. Ferndale, 1.0 mile southeast of, etc.: Wall in which bench mark was set has been partly overthrown, elevation doubtful.

Pages 42–43, New York City datums. (See p. 121, this volume.)

Page 125, Risby Lakes should be “Bisby Lakes.”

Personnel.—The field work from 1896 to 1906, inclusive, was done under the direction of H. M. Wilson, geographer, and the later work under Frank Sutton, geographer. The work since January, 1908, was done under the general direction of R. B. Marshall, chief geographer. Credit is given in the headings of the several lists to the respective levelmen. The office work in preparation of lists was done mainly by S. S. Gannett, geographer, under the general direction of E. M. Douglas, geographer.

Classification.—The elevations are classified as precise or primary, according to the methods employed in their determination. The former are determined by lines of levels run either in both forward and backward directions or by simultaneous double-rodded lines, a high-grade instrument being used and special precautions being taken in observations and reduction to correct errors and make the line continuously good throughout. The latter or primary levels are determined with the Y level, the levels being run mostly in circuits of single lines. The allowable limit of error observed on the precise work already done by the Geological Survey in this State is represented in feet by 0.03 \( \sqrt{D} \) and that for the primary work by 0.05 \( \sqrt{D} \), in which \( D \) is the length of circuit in miles.

Bench marks.—The standard bench marks are in two forms. The first form is a circular bronze or aluminum tablet (C and E, Pl. I), 3½ inches in diameter and ¼ inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry structure. The second form (F, Pl. I), used where masonry or rock is not available, consists of a hollow wrought-iron post 3½ inches in outer diameter and 4 feet in length. It is split at the bottom and spread out to a width of 10 inches in order to give a firm bearing on the earth, and is set about 3 feet in the ground. A bronze or aluminum-bronze cap is riveted upon the top of the post. A third style of bench mark with abbreviated lettering (B and D, Pl. I), is used for unimportant points. This consists of a special copper nail 1½ inches in length driven through a copper washer ½ inch in diameter. The tablets as well as the caps on the iron posts are appropriately lettered, and cooperation by States is indicated by the addition of the State name (G, Pl. I). Another form used in 1896 and 1897 was a copper rod
INTRODUCTION.

4 inches long and 1 inch in diameter fastened into masonry or solid rock by driving it on a brass wedge placed in the bottom of a vertical hole, so that the top of the bolt was horizontal and thus formed the bench mark.

The numbers stamped on the bench marks described in the following pages represent the elevations to the nearest foot as determined by the levelman. These numbers are stamped with \( \frac{1}{16} \) -inch steel dies on the tablets of post caps, to the left of the word "Feet." The office adjustment of the notes and the reduction to mean sea level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey, at Washington, D. C., for the adjusted values, and will use the markings as identification numbers only.

Datum.—All elevations determined by the United States Geological Survey and the United States Coast and Geodetic Survey are referred to mean sea level, which is the level that the sea would assume if the influence of winds and tides were eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from hourly observations made by means of tidal gages placed at stations where local conditions, such as long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels as determined from observations in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.

The connection with tidal stations for bench marks in certain areas that lie at some distance from the seacoast is still uncertain, and this fact is indicated by the addition of a letter or word to the right of the word "Datum" on tablets or posts. For such areas corrections for published results will be made from time to time as the precise-level lines of the United States Geological Survey, the United States Coast and Geodetic Survey, or other Government organizations are extended.

Topographic maps.—Maps of the following quadrangles, wholly or partly in New York, have been published by the United States Geological Survey up to March 1, 1918. They may be obtained, unless

otherwise noted, at 10 cents each or $3 for 50 on application to the Director of the Survey, at Washington, D. C.

Albany, 1
Albany and vicinity, 1 20 cents.
Albion.
Alexandria Bay.
Amsterdam.
Angelica.
Antwerp.
Apalachin.
Attica.
Auburn.
Ausable.
Babylon.
Baldwinsville.
Bataia.
Bath.
Berlin (N. Y.-Mass.-Vt.).
Berne.
Big Moose.
Binghamton.
Blue Mountain.
Bolton.
Boonville.
Brier Hill.
Broadalbin.
Brockport.
Brooklyn.
Buffalo.
Caledonia.
Cambridge (N. Y.-Vt.).
Canada Lake. Name changed—see West Canada Lakes.
Canajoharie.
Canandaigua.
Canaseraga.
Canton.
Cape Vincent.
Carmel (N. Y.-Conn.).
Carthage.
Castleton (Vt.-N. Y.).
Catatonk.
Catskill.
Cazenovia.
Chateaugay.
Chautauqua.
Cherry Creek.
Chittenango.
Churubusco.
Clayton.
Clove (N. Y.-Conn.).
Clyde.
Clymer.
Cohoes.
Cooperstown.
Copake (N. Y.-Mass.).
Corning.
Cornwall (Conn.-N. Y.).
Cortland.
Coxsackie.
Dannemora.
Delhi.
Depew.
Dryden.
Dunkirk.
Durham.
Easthampton.
Eden.
Elizabethtown.
Ellenville.

1 Albany and vicinity map includes Albany, Cohoes, Schenectady, and Troy maps.
2 Shows wooded areas.
3 Apalachin, Dryden, Harford, and Owego maps on scale of 1:62,500, have been reduced and form Catatonk map, on scale of 1:125,000.
4 Mount Marcy and vicinity map includes Ausable, Elizabethtown, Lake Placid, and Mount Marcy maps. Mount Marcy and vicinity forestry map uses the same base.
5 Babylon, Fire Island, Northport, and Setauket maps, on scale of 1:62,500, have been reduced and form Islip map, on scale of 1:125,000.
6 Berlin and Hoosick maps, on scale of 1:62,500, have been reduced and form parts of Taconic map, on scale of 1:125,000.
7 New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.
8 Niagara River and vicinity map includes parts of all maps bordering on Niagara River.
9 Cambridge, Fort Ann, and Pawlet maps, on scale of 1:62,500, have been reduced and form parts of Mettawee map, on scale of 1:125,000.
10 Cornwall map, on scale of 1:62,500, has been reduced and forms part of Litchfield map, on scale of 1:125,000.
INTRODUCTION.

Elmira (N. Y.-Pa).  
Fire Island.  
Fonda.  
Fort Ann (N. Y.-Vt.).  
Fulton.  
Gaines (Pa.-N. Y.).  
Gardiners Island.  
Geneva.  
Genoa.  
Gilboa.  
Glens Falls.  
Groversville.  
Goshen (N. Y.-N. J.).  
Gouverneur.  
Greene.  
Grindstone.  
Hamlin.  
Hammond.  
Hammondsport.  
Harford.  
Harlem (N. Y.-N. J.).  
Hartwick.  
Hempstead.  
Highmarket.  
Hobart.  
Honeoye.  
Hoosick (N. Y.-Vt.).  
Housatonic (Mass.-N. Y.-Conn.).  
Indian Lake.  
Islip.  
Ithaca.  
Jamestown.  
Kaaterskill.  
Kasoag.  
Kinderhook.  
Lake Bonaparte.  
Lake Placid.  
Lake Pleasant.  
Lassellsville.  
Litchfield (Conn.-N. Y.).  
Little Falls.  
Lockport.  
Long Lake.  
Loon Lake.  
Lowville.  
Luzerne.  
Lyon Mountain.  
Macedon.  
McKeever.  
Malone.  
Margaretville.  
Massena.  
Medina.  
Mettiawee (N. Y.-Vt.).  
Mexico.  
Milford (N. Y.-Pa.-N. J.)  
Millbrook (N. Y.-Conn.).  
Mioira.  
Montauk.  
Monticello.  
Mooers.  
Moravia.  
Moriches.  
Morrisville.  
Mount Marcy.  
Mount Marcy and vicinity (20 cents).  

* Out of print.

1 Elmira, Ithaca, Watkins, and Waverly maps, on scale of 1:62,500, have been reduced and form Watkins Glen map, on scale of 1:125,000.
2 Babylon, Fire Island, Northport, and Setauket maps, on scale of 1:62,500, have been reduced and form Islip map, on scale of 1:125,000.
3 Cambridge, Fort Ann, and Pawlet maps, on scale of 1:62,500, have been reduced and form parts of Mettawee map, on scale of 1:125,000.
4 Oswego special map includes parts of Oswego and Fulton maps.
5 Apalachin, Dryden, Harford, and Owego maps, on scale of 1:62,500, have been reduced and form Catatonk map, on scale of 1:125,000.
6 New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.
7 Berlin and Hoosick maps, on scale of 1:62,500, have been reduced and form parts of Taconic map, on scale of 1:125,000.
8 Pittsfield and Sheffield maps, on scale of 1:62,500, have been reduced and form parts of Housatonic map, on scale of 1:125,000.
9 Shows wooded areas.
10 Mount Marcy and vicinity map includes Ausable, Elizabethtown, Lake Placid, and Mount Marcy maps. Mount Marcy and vicinity forestry map uses the same base.
11 Cornwall map, on scale of 1:62,500, has been reduced and forms part of Litchfield map, on scale of 1:125,000.
12 Lockport, Niagara Falls, Olcott, Tonawanda, and Wilson maps, on scale of 1:62,500, have been reduced and form parts of Niagara map, on scale of 1:125,000.

* Mount Marcy and vicinity forestry map (20 cents). ¹
Naples.
Navesink (N. J.–N. Y.). ²
Neversink.
New Berlin.
New Brunswick (N. J.–N. Y.). ²
Newburg.
Newcomb.
New London (Conn.–N. Y.).
New York City and vicinity (N. Y.–N. J.) (25 cents). ³
Niagara. ⁴
Niagara Falls. ⁴ ⁴ ⁴
* Niagara Falls and vicinity (10 cents). ⁴
Niagara River and vicinity (10 cents). ⁴
Nineveh.
North Creek.
Northeast (Pa.–N. Y.).
Northport. ³
Norwalk (Conn.–N. Y.).
Norwich.
Number Four.
Nunda.
Oak Orchard.
Ogdensburg.
Olcott. ⁴
Old Forge.
Olean.
Oneida.
Oneonta.

Ontario Beach. ⁵
Oriskany.
Orwell.
Oswego. ⁶
Oswego special. ⁶
Ovid.
Owego. ⁷
Oxford.
Oyster Bay (N. Y.–Conn.). ⁸
Palmyra.
Paradox Lake.
Passaic (N. J.–N. Y.). ¹¹
Paterson (N. J.–N. Y.). ¹¹
Pawlet (Vt.–N. Y.). ¹²
Penn Yan.
Pheps.
Phoenix. ¹
Piseco Lake.
Pittsfield.
Pitcher.
Pittsfield (Mass.–N. Y.). ¹³
Plainfield (N. J.–N. Y.).
Plattsburg (N. Y.–Vt.).
Plattsburg Training Camp (20 cents).
Portage.
Port Jervis (N. Y.–N. J.–Pa.).
Port Leyden.
Potsdam.
Poughkeepsie.
Pulaski.
Pultneyville.
Ramapo (N. Y.–N. J.).
Raquette Lake.

Out of print.
¹ Mount Marcy and vicinity map includes Ausable, Elizabethtown, Lake Placid, and Mount Marcy maps. Mount Marcy and vicinity forestry map uses the same base.
² New Brunswick and Sandy Hook maps, on scale of 1:62,500, have been reduced and form parts of Navesink map, on scale of 1:125,000.
³ New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.
⁴ Lockport, Niagara Falls, Olcott, Tonawanda, and Wilson maps, on scale of 1:62,500, have been reduced and form parts of Niagara map, on scale of 1:125,000.
⁵ Niagara Falls and vicinity map includes Niagara Falls, Tonawanda, and Wilson maps.
⁶ Niagara River and vicinity map includes parts of all maps bordering on Niagara River.
⁷ Babylon, Fire Island, Northport and Setauket maps, on scale of 1:62,500, have been reduced and form Islip map, on scale of 1:125,000.
⁸ Rochester special map includes parts of Rochester and Ontario Beach maps.
⁹ Oswego special map includes parts of Oswego and Fulton maps.
¹⁰ Apalachin, Dryden, Harford, and Owego maps, on scale of 1:62,500, have been reduced and form Catatonk map, on scale of 1:125,000.
¹¹ Paterson and Staten Island maps, on scale of 1:62,500, have been reduced and form parts of Passaic map, on scale of 1:125,000.
¹² Pittsfield and Sheffield maps, on scale of 1:62,500, have been reduced and form parts of Mettawee map, on scale of 1:125,000.
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Red Mills.
Remsen.
Rhinebeck.
Richfield Springs.
Richmondville.
Ridgway.
Riverhead.
Rochester.¹
Rochester special.¹
Rosendale.
Rouses Point (N. Y.—Vt.).
Russell.
Sacketts Harbor.
Sag Harbor.
St. Regis.
Salamanca.
Sandy Hook (N. J.—N. Y.).²
Sangerfield.⁴
Santanoni.
Saranac.
Saratoga.
Schenectady.⁴
Schoharie.
Schoon Lake.
Schunemunk.
Schuylerville.
Setauket.⁴
Sheffield (Mass.—Conn.—N. Y.).⁷
Shelter Island.
Silver Creek.
Skanateles.
Slide Mountain.
Sodus Bay.

Stamford (Conn.—N. Y.).
Staten Island (N. J.—N. Y.).³
Stonington (Conn.—R. I.—N. Y.).
Stony Creek.
Stony Island.
Syracuse.
Taberg.
Taconic (N. Y.—Mass.—Vt.).⁶
Tarrytown (N. Y.—N. J.).
Theresa.
Thirteenth Lake.
Ticonderoga (N. Y.—Vt.).
Tonawanda.¹⁰ ¹¹
Troy.⁷
Tully.
Tupper Lake.
Utica.
Waddington.
Warren (Pa.—N. Y.).
Watertown.
Watkins.¹²
Watkins Glen.¹³
Waverly.¹³
Wayland.
Weedsport.
West Canada Lakes.
Westfield.
West Point.
Whitehall (N. Y.—Vt.).
Willsboro (N. Y.—Vt.).
Wilmurt.
Wilson.¹¹
Winfield.

¹ Rochester special map includes parts of Rochester and Ontario Beach maps.
² New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.
³ New Brunswick and Sandy Hook maps, on scale of 1 : 62,500, have been reduced and form parts of Navesink map, on scale of 1 : 125,000.
⁴ Shows wooded area.
⁵ Albany and vicinity map includes Albany, Cohoes, Schenectady, and Troy maps.
⁶ Babylon, Fire Island, Northport, and Setauket maps, on scale of 1 : 62,500, have been reduced and form Islip map, on scale of 1 : 125,000.
⁷ Pittsfield and Sheffield maps, on scale of 1 : 62,500, have been reduced and form parts of Housatonic map, on scale of 1 : 125,000.
⁸ Berlin and Hoosick maps, on scale of 1 : 62,500, have been reduced and form parts of Taconic map, on scale of 1 : 125,000.
⁹ Lockport, Niagara Falls, Olcott, Tonawanda, and Wilson maps, on scale of 1 : 62,500, have been reduced and form parts of Niagara map, on scale of 1 : 125,000.
¹⁰ Niagara River and vicinity map includes parts of all maps bordering on Niagara River.
¹¹ Niagara Falls and vicinity map includes Niagara Falls, Tonawanda, and Wilson maps.
¹² Elmira, Ithaca, Watkins, and Waverly maps, on scale of 1 : 62,500, have been reduced and form Watkins Glen map, on scale of 1 : 125,000.

PRECISE AND PRIMARY LEVELING.

ALBION QUADRANGLE.*

[Latitude 43°–43° 15'; longitude 78°–78° 15'.]

Primary leveling in 1896 by E. L. McNair.

Bench marks tied to Canal bench marks.

Albion, Orleans House, corner of Platt and Bank streets, 40.5 feet from Bank Street corner, on Platt Street side, 7.7 feet from office door; bronze tablet stamped “521”__________________ 519.984

Holley, Webster warehouse, south and west of Erie Canal bridge 115, in doorsill of door on canal side; copper bolt stamped “514”________ 513.210

Elevations determined from New York State survey levels, corrected.

Clarendon, 4 miles south of, opposite Andrew Kuhn's house on land belonging to Mrs. Butcher, 0.33 mile north of county line, in granite boulder; copper bolt stamped “648”__________________ 647.137

Elba, 3.8 miles northeast of, at southwest corner of junction of east and west road and road south to East Elba, in granite boulder; copper bolt stamped “675”______________________ 674.637

East Oakfield, 1.5 miles east of, 65 feet southeast of schoolhouse, district 9, 15 feet from road corner, on west side of north road, in boulder; copper bolt stamped “709”__________________ 708.143

South Barre, 220 feet east of road crossing, in stone doorsill of schoolhouse, district 9; copper bolt stamped “652”_________ 651.645

Barre Center, 3 miles southwest of, 1.5 miles northeast of West Barre, E. E. Allis's house, on north side of road, in lower of three stone steps of eastern front door; copper bolt stamped “666”______ 665.304

Bench mark set from old railroad levels, corrected (value doubtful).

South Byron, 1,710 feet west of railroad station, 27 feet north from center of north track of New York Central & Hudson River R. R., in next to upper step of large culvert, across Black Creek; copper bolt stamped “682”________________________ 681.165

ALEXANDRIA BAY QUADRANGLE.*

[Latitude 44° 15'–44° 30'; longitude 75° 45'-76°.]

Primary leveling in 1900 by William Kelley.

From Theresa north to Redwood, thence west to Alexandria Bay.

Redwood, the Dollinger House (hotel), east side and northeast corner of foundation wall; aluminum tablet stamped “365 Cape Vincent”_.

Alexandria Bay, Reformed church, 29.9 feet north-northeast from the northwest corner, in ledge in church lot; aluminum tablet stamped “283 Cape Vincent”________________________ 282.267

From Lafargeville north via Omar to Fishers Landing.

Omar, 420 feet northerly from intersection of Fishers Landing and Collins Landing roads, in bed rock on sandstone ledge, west side of the Collins Landing road, and on line with northerly side of the Omar schoolhouse, and distant 51.62 feet from northwest corner of schoolhouse; bronze tablet stamped “297 Cape Vincent”________ 295.745

* See Bull. 514, pp. 95–96, for other elevations.

* See Bull. 514; pp. 62–63, for other elevations.
PRECISE AND PRIMARY LEVELING.

Fishers Landing, crossroads near, 72.6 feet from the south corner of Mrs. Tom's residence and 131 feet northwest of the west corner of a house on the opposite side of the road; top of a round-headed \(\frac{1}{4}\)-inch brass bolt\(^1\) cemented into bed rock 6 inches below surface of ground

\[
\begin{align*}
\text{Feet.} & \quad 274.351
\end{align*}
\]

From Redwood north via South Hammond to Chippewa village.

Chippewa village, stone schoolhouse, district 11, 1 foot easterly from the northeast corner, set in bed rock; bronze tablet stamped "289 Cape Vincent"

\[
\begin{align*}
\text{Feet.} & \quad 287.768
\end{align*}
\]

Chippewa village, stone schoolhouse, district 11, north face of northeast corner; center-punch mark of a brass bolt (permanent bench mark C. V. of the Deep Waterways Commission)

\[
\begin{align*}
\text{Feet.} & \quad 290.698
\end{align*}
\]

AMSTERDAM QUADRANGLE.\(^2\)

[Latitude 42° 45'-43°; longitude 74°-74° 15'.]

Precise leveling in 1898 by E. L. McNair.

From Duanesburg east along Delaware & Hudson R. R. to South Schenectady.

Duanesburg, 1,000 feet west of Delaware & Hudson station, north end of east abutment of bridge; bronze tablet stamped "681 A"

\[
\begin{align*}
\text{Feet.} & \quad 680.822
\end{align*}
\]

Duanesburg, in front of Delaware & Hudson station; top of south rail

\[
\begin{align*}
\text{Feet.} & \quad 676.6
\end{align*}
\]

Kelleys, at station; top of rail

\[
\begin{align*}
\text{Feet.} & \quad 490.9
\end{align*}
\]

Kelleys, 1.75 miles east of, 750 feet east of highway, at east abutment of cattle and wagon pass, in coping stone; bronze tablet stamped "410 A"

\[
\begin{align*}
\text{Feet.} & \quad 409.008
\end{align*}
\]

South Schenectady, at road crossing of West Shore and Delaware & Hudson railroads; top of rail

\[
\begin{align*}
\text{Feet.} & \quad 349.1
\end{align*}
\]

ANDES QUADRANGLE.

[Latitude 42°-42° 15'; longitude 74° 45'-75°.]

Leveling in 1915 by Karl E. Schlachter.

From Fraser southwest along New York, Ontario & Western Ry. to Hamden.

Fraser, in front of station; top of rail

\[
\begin{align*}
\text{Feet.} & \quad 1,323.6
\end{align*}
\]

Fraser station, 650 feet south of, in southwest abutment of railroad bridge over Platner Brook; bronze tablet stamped "N. Y. 1324"

\[
\begin{align*}
\text{Feet.} & \quad 1,323.631
\end{align*}
\]

Fraser station, 1 mile southwest of, 540 feet southwest of milepost N. Y. 192, in east side of concrete culvert 20; chiseled square painted "t. b. m. 1306.2"

\[
\begin{align*}
\text{Feet.} & \quad 1,306.24
\end{align*}
\]

Delancey, in front of station; top of rail

\[
\begin{align*}
\text{Feet.} & \quad 1,296.5
\end{align*}
\]

Delancey station, 270 feet south of, in east side of concrete culvert; bronze tablet stamped "N. Y. 1285"

\[
\begin{align*}
\text{Feet.} & \quad 1,285.497
\end{align*}
\]

Hamden, opposite store of E. L. Miller, top of hydrant painted "t. b. m. 1,288.3"

\[
\begin{align*}
\text{Feet.} & \quad 1,288.38
\end{align*}
\]

Hamden, in front of station; top of rail

\[
\begin{align*}
\text{Feet.} & \quad 1,282.1
\end{align*}
\]

\(^1\) The letters "U. S. P. B. M. 29" are cut in the bedrock. This is a bench mark set by the Deep Waterways Commission.

\(^2\) See Bull. 514, pp. 67-68, for other elevations.

From Delancey along highway east to Andes, thence south along Delaware & Northern R. R. to point near Union Grove, thence east to Arena.

Delancey station, 2.2 miles east of, at road corner north, in slab in stone wall, north of road, 50 feet east of corner; chiseled square painted “t. b. m. 1,476.1”________________________ 1,476.17
Delancey station, 3.6 miles east of, in boulder, south margin of road; bronze tablet stamped “N. Y. 1565”________________________ 1,565.09
Delancey station, 4.3 miles east of, 50 feet northeast of intersection of Bagley Brook and Terry Clove railroads, in ledge, west margin of road; chiseled square painted “t. b. m. 1638.0”_________ 1,638.08
Cabin Hill Church, 2.3 miles west of, 60 feet south of corner, in southwest abutment of highway bridge to farmhouse; chiseled square painted “t. b. m. 1685.6”________________________ 1,685.72
Cabin Hill Church, 50 feet south of southwest corner of, in boulder; bronze tablet stamped “N. Y. 2203”________________________ 2,203.15
Cabin Hill Church, 1.5 miles east of, at road corner south, in boulder, 20 feet south of road; chiseled square painted “t. b. m. 1916.7”________________________ 1,916.83
Andes, 2.3 miles west of, at road corner east, in boulder 10 feet west of road; bronze tablet stamped “N. Y. 1708”________________________ 1,708.09
Andes, 1.4 miles west of, at road corner south, in rock, north margin of road; chiseled square painted “t. b. m. 1681.1”________________________ 1,681.19
Andes, in northeast abutment of highway bridge over Tremper Kill, 900 feet northeast of depot; bronze tablet stamped “N. Y. 1594”_________ 1,594.45
Andes, 1 mile south of, 528 feet north of railroad bridge 7, in boulder, west margin of track; chiseled square painted “t. b. m. 1546.3”_________ 1,546.35
Kaufman’s, in front of station; top of rail________________________ 1,463.9
Kaufman’s station, 0.7 mile south of, in boulder 12 feet east of track; bronze tablet stamped “N. Y. 1413”________________________ 1,413.41
Wolf Hollow, in front of station; top of rail________________________ 1,391.6
Wolf Hollow station, 0.4 mile south of, in southeast abutment of railroad bridge 4; chiseled circle painted “t. b. m. 1357.9”________________________ 1,357.95
Pleasant Valley, in front of station; top of rail________________________ 1,330.6
Pleasant Valley station, 0.2 mile south of, in southeast abutment of railroad bridge 3; chiseled circle painted “t. b. m. 1234.2”________________________ 1,324.20
Union Grove, 2 miles north of, in boulder, 35 feet west of track; bronze tablet stamped “N. Y. 1295”________________________ 1,295.33
Union Grove, 1.3 miles north of, in southwest abutment of railroad bridge 1; chiseled square painted “t. b. m. 1289.8”________________________ 1,289.89
Union Grove station, 0.5 mile west of, at junction with Andes Branch of Delaware & Northern R. R., in southeast abutment of bridge 12; chiseled circle painted “t. b. m. 1216.1”________________________ 1,218.92
Union Grove, in southeast corner of railroad bridge, over the East Branch of the Delaware; bronze tablet stamped “N. Y. 1218.6”________________________ 1,218.68
Union Grove, in front of station; top of rail________________________ 1,219.5
Union Grove, 1 mile northeast of, in northwest abutment of railroad bridge 10; chiseled square painted “t. b. m. 1220.0”________________________ 1,222.89
Jacksonburg siding, 0.5 mile west of, in southwest corner of railroad bridge 8; bronze tablet stamped “N. Y. 1227”________________________ 1,229.72
Jacksonburg siding, at road crossing; top of rail________________________ 1,233.8
From point near Union Grove west along Delaware & Northern R. R. to Downsville.

Shavertown, 0.7 mile east of, in west side of stone culvert, in capstone; chiseled circle painted “t. b. m. 1192.5” 1,185.33
Shavertown, 0.3 mile east of station, in southeast corner of railroad bridge over Tremper Kill; bronze tablet stamped “N. Y. 1187” 1,187.42
Shavertown, in front of station; top of rail 1,187.9
Shavertown, 1.8 miles southwest of, in northeast corner of railroad bridge 15; chiseled circle painted “t. b. m. 1175.0” 1,175.29
Pepacton, 1.4 miles east of, on northeast abutment of Rock Eddy bridge; top of bolt painted “t. b. m. 1157.5” 1,157.75
Pepacton station, 200 feet west of, in northeast corner of railroad bridge 17; bronze tablet stamped “N. Y. 1146” 1,145.80
Pepacton, 1.3 miles west of (Wilson’s siding) in east abutment of bridge 18; chiseled square painted “t. b. m. 1134.5” 1,134.71
Pepacton, 1.9 miles west of, in east side of concrete culvert; bronze tablet stamped “N. Y. 1123” 1,123.31
Williams siding, 1.4 miles east of Downsville, 150 feet east of, in east side of concrete culvert; chiseled circle painted “t. b. m. 1120.1” 1,120.33
Downsville, in northeast abutment of first (and smaller) highway bridge from station to village; bronze tablet stamped “N. Y. 1103” 1,102.92
Downsville, in front of station, top of rail 1,103.1

From Pepacton south along highways to Craigie Clair school.

Pepacton, 1.2 miles south of, along road to Roscoe, at road fork west, in boulder, west margin of road; chiseled square painted “t. b. m. 1311.2” 1,311.42
Pepacton, 2 miles south of, at road corner east, in boulder in west margin of road; chiseled square painted “t. b. m. 1469.7” 1,469.93
Holliday’s Brook School, 0.7 mile south of, in ledge, west margin of road; bronze tablet stamped “N. Y. 1941” 1,940.88
Holliday’s Brook School, 1.5 miles south of, in front of barn, in boulder in west margin of road; chiseled square painted “t. b. m. 2085.5” 2,085.78
Berry Brook School, 0.4 mile north of, at road fork, on boulder; chiseled square painted “t. b. m. 1906.6” 1,906.83
Berry Brook School, 1.1 miles south of, at old wood road, in boulder in west margin of road, 8.5 feet south of water trough; bronze tablet stamped “N. Y. 1651” 1,651.44
Berry Brook School, 2.1 miles south of, at road fork in boulder, in east margin of road; chiseled square painted “t. b. m. 1500.2” 1,599.32

ANGELICA QUADRANGLE:
[Latitude 42° 15’-42° 30’; longitude 78°-78° 15’.]

Precise leveling in 1898 by E. L. McNair.

Near Belvidere.

Belvidere, in front of Erie R. R. station; top of north rail 1,378.7
Belvidere, 0.67 mile east of, south end of wing wall of abutment at east end of railway bridge over Van Campen Creek, 28 feet south of center of track; bronze tablet stamped “1351 D” 1,352.24

See Bull. 514, p. 5, for other elevations.
Primary leveling in 1903 by George Soidel.

From Portage, southwest along the Pennsylvania R. R. to Cuba.

Fillmore, main entrance of Dingman House, coping stone of stone wall; aluminum tablet stamped "1213 Albany 1903" 1,213.069
Houghton, road crossing at station; top of rail 1,210
Caneadea, 0.6 mile north of, west side of track, old canal lock, foundation rock 1,228.856
Caneadea, road crossing; top of rail 1,238
Caneadea, 500 feet south of station, west end of north abutment of railroad bridge; aluminum tablet stamped "1236 Albany 1903" 1,236.916
Oramel, road crossing at station; top of rail 1,264
Belfast, 2.1 miles south of, west side of track at railroad crossing; top stone of culvert 1,350.810
Black Creek, road crossing at station; top of rail 1,489
Black Creek, southwest corner of foundation wall of Congregational Church; aluminum tablet stamped "1517 Albany 1903" 1,517.944

From Caneadea east along public road to Alien Center (single-spur line).

Alien Center, 0.2 mile west of, north side of road, in foundation wall of Wm. Burk’s residence; aluminum tablet stamped "1636 Albany 1903" 1,636.169

From Belfast southeast along public road to Belvidere, thence along Erie R. R. to Belmont.

Belfast, corner of Main Street, northeast corner of foundation to Belfast House; aluminum tablet stamped "1313 Albany 1903" 1,313.140
Angelica, crossing at station; top of rail 1,440
Angelica, foundation of Shawmut Railroad office building, on Depot Street; aluminum tablet stamped "1440 Albany 1903" (on single-spur line) 1,439.990
Belvidere, foundation wall under bay window of Mrs. S. H. Whitchcomb’s residence; aluminum tablet stamped "1371 Albany 1903" 1,371.272

Leveling in 1914 by A. J. Kavanagh.

At Angelica.

Angelica, 0.67 mile east of, in southeast corner concrete abutment of railroad bridge, at yard limit; chiseled square, painted "U. S. T. B. M. 1459" 1,459.44

ANTWERP QUADRANGLE. *

[Latitude 44°-44° 15'; longitude 75° 30'-75° 45'.]

Primary leveling by C. H. Semper in 1900.

At Great Bend.

Great Bend, in front of station; top of rail 654.8

APALACHIN QUADRANGLE.

[Latitude 42°-42° 15'; longitude 76°-76° 15'.]

Precise leveling in 1898 by E. L. McNair.

From Owego east along Erie R. R. to Hooper.

Owego, 2.75 miles east of Erie station, northwest corner of bridge 33, in coping stone; aluminum tablet stamped "812 A" 811.679
Campville, in front of station; top of north rail 824.9

* See Bull. 514, pp. 18-20, for additional elevations.
PRECISE AND PRIMARY LEVELING.

Union, 1.4 miles west of, northwest corner of bridge 31, across Nanticoke Creek, in coping stone of wing wall of abutment; bronze tablet stamped “825 A”----------------------------- 828.353
Union station, in front of station, eastbound track; top of south rail. 835.2
Hooper, in front of station; top of south rail, westbound track------- 834.5
Primary leveling in 1900 by W. E. Green.

From Flemingville north along highway to Speedville.

Weltonville, highway bridge, southwest corner of south abutment; bronze tablet stamped “930 A”----------------------------- 931.136

From Owego via the Lehigh Valley R. R. to Newark Valley.

Flemingville, waiting room at station; top of doorsill--------------------- 907.23
Newark Valley, 900 feet south of station, at northwest corner of iron bridge 299 A, on abutment; bronze tablet stamped “961 A”----------------------------- 961.634
Newark Valley, waiting room at station; doorsill--------------------- 967.03

From Union north along highway to Maine (single-spur line).

Union, Duane Street crossing west of station; top of rail--------------------- 833.3
Union Center, Andrew & Pitcairn’s store, northwest side of; mark on water table--------------------- 879.82
Maine, northwest corner of Methodist Episcopal Church; aluminum tablet stamped “915 Albany”--------------------- 916.700

From Union south along highway to Vestal Center (single-spur line).

Union, southwest corner of Union Methodist Episcopal Church; bronze tablet stamped “830 Albany”--------------------- 830.751
Vestal, at Delaware, Lackawanna & Western R. R. station, road crossing; top of rail--------------------- 828.7
Vestal Center, 975 feet east of, in northeast corner of abutment of iron highway bridge over Big Chocount Creek; bronze tablet stamped “985 Albany”--------------------- 985.274

ATTICA QUADRANGLE.

[Latitude 42° 45’-43°; longitude 78° 15’-78° 30’.] Primary leveling in 1903 by George Seidel.

From Attica south along railroad to Varysburg, thence west along highway to Harris.

Attica, 0.2 mile west of station, on south side of Erie R. R., in east abutment of railroad bridge; bronze tablet stamped “990 Rochester”--------------------- 990.187
Arcade, railroad crossing; top of rail--------------------- 974
Varysburg, southeast corner of foundation wall of Baptist Church; bronze tablet stamped “1113 Albany 1903”--------------------- 1,113.072
Harris, north side of road, about 35 feet south of T. Dorshide’s hotel, in large rock; bronze tablet stamped “1306 Albany 1903”--------------------- 1,305.795

From Crittenden east along the New York Central & Hudson River R. R. to Corfu, thence along highway to Darlen, thence east along railroad to Attica.

Crittenden, 0.2 mile east of; New York Central R. R. bench mark at milestone 419--------------------- 846.89
Crittenden, 1.2 miles east of; New York Central R. R. bench mark at milestone 418--------------------- 856

104787°—Bull. 671—18—2

Corfu, 2.1 miles west of; New York Central R. R. bench mark at mile-post 417. 878. 36
Corfu, 1.1 miles west of; New York Central R. R. bench mark at milestone 416. 873. 28
Corfu, 0.1 mile west of; New York Central R. R. bench mark at milestone 415. 862. 92
Corfu, southwest corner of foundation wall of Catholic Church; bronze tablet stamped "554 Albany 1903" (bench mark on single-spur line) 854. 445
Lehigh Valley R. R. crossing; top of rail 878
Delaware, Lackawanna & Western R. R. crossing; top of rail 909
Darien Center, southeast corner of foundation wall of Allegheny Hotel; aluminum tablet stamped "1011 Albany 1903" 1,011. 207
Darien, Erie R. R. station; top of rail 1,011. 8
Griswold, 500 feet southwest of station, north side of track; coping stone of abutment of railroad bridge 1,032. 88
Griswold, road crossing at station; top of rail 1,036

AUBURN QUADRANGLE.

[Latitude 42° 45'-43°; longitude 76° 30'-76° 45'.]

Primary leveling in 1896 by A. B. Pomme.

From Cascade northwest to Scipio, thence west via Barbers Corners to Levana, thence south to Aurora.

Cascade Hotel, 2 miles west of, on capstone of culvert in southeast corner of intersection of road running south; chiseled square 1,266. 58
Scipio public school, 30 feet southeast of corner of, in boulder; copper bolt stamped "U. S. G. S. B. M. 1205 ft." 1,203. 21
Scipioville, Watkins's store, on northeast corner of stepstone; chiseled square 989. 46
Barbers Corners, 250 feet south of, in limestone boulder on east side of road under apple tree near bridge; copper bolt stamped "849" 847. 954
Aurora, Cayuga Military Academy, south door of basement, in west end of doorsill; copper bolt stamped "437" 435. 732

From Levana north along the Lehigh Valley R. R. to Union Springs.

[The error distributed in this line is excessive.]

Union Springs, basement door at south end of sanitarium, in west end of doorsill; copper bolt stamped "U. S. G. S. B. M. 421 ft." 418. 680

From Union Springs northwest along the Lehigh Valley R. R. to Auburn.

Half Acre, 1.25 miles southwest of railroad station, on stone near southwest corner of intersection of road to south; chiseled square 706. 76
Aurelius, on mounting block in southwest corner of four corners; chiseled square 644. 27
Aurelius, 1.75 miles east of, on southeast bridge seat of bridge over Crane Brook; chiseled square 635. 84
Auburn, 411 feet south of south side of Genesee Street, on east side of track; bolt in rock (Lehigh Valley R. R. bench mark, railroad elevation 647.083) 647. 77
Auburn, south side of Genesee Street, between Sherwood and Delevan streets; west side of coping (city bench mark) 643. 17
Auburn, northwest corner of courthouse; water table (city bench mark) 708. 82
Auburn, North and Market streets; top of monument near southwest corner of city hall lot (city bench mark)----------------------------- Feet. 671.75
Auburn, post-office building, Genesee Street entrance, in top of wing stone at east end of steps; bronze tablet stamped "710 feet"------ 707.719

From Auburn north along highway to Cayuga.

Cayuga, on northwest corner of doorsill to north door of malt house; chiseled square----------------------------------------------- 387.83
Cayuga, Cayuga and Seneca Canal, lock 10, between anchors of west wing of south gate; copper bolt stamped "U. S. G. S. B. M. 392 ft."----------------------------------------------- 390.420

From Auburn south along highway to Scipio.

Auburn, Genesee Street, 2 miles south of, on Lehigh Valley R. R.; iron bolt in box culvert, 911 feet north of north side of public road. 721.18
Fleming, Methodist Episcopal Church; copper bolt in doorstep, south door, stamped "U. S. G. S. B. M. 912 ft."----------------------------- 910.051

From Throopsville southwest along highway to Cayuga.

Throopsville, 1.75 miles east of; iron bolt in foundation of culvert 201 feet north of point of switch (Lehigh Valley R. R. bench mark) 546.060
Throopsville, north side of road just east of four corners, on south­east corner of stone horse block; chiseled square------------------------ 516.36
Fosterville, 3 miles west of, 800 feet east of canal, south side of road, on granite boulder horse block in front of wood-colored house; chiseled square----------------------------------------------- 408.87

BABLONY QUADRANGLE.

[Latitude 40° 30'-40° 45'; longitude 73° 15'-73° 30'.]

Primary leveling in 1901 by C. H. Semper.

From Deerpark south along highway to Babylon.

Babylon, Deerpark Avenue crossing; top of rail----------------------------- 13.0
Babylon, Methodist Episcopal Church on Deerpark Avenue, front face near north end; bronze tablet stamped "17 Willets Pt. 1901"--- 16.677

From Babylon northwest along railroad via Farmingdale to Jericho.

Farmingdale, at Main Street crossing; top of rail----------------------------- 71.0
Farmingdale, front face of Catholic Church on Cherry Street, east end; bronze tablet stamped "74 Willets Pt. 1901"----------------------------- 73.550

BALDWINSVILLE QUADRANGLE.

[Latitude 43°-43° 15'; longitude 76° 15'-76° 30'.]

Primary leveling in 1898 by D. E. Baxter.

From Hinmansville south via Baldwinsville to Newport.

Hinmansville, Oswego Canal, lock 6, in lower hollow quoin between cinchers; copper bolt (canal bench mark)----------------------------- 360.68
Phoenix, Culvert Street, Oswego Canal, in second step of bridge abut­ment, south end; copper bolt (canal bench mark)----------------------------- 364.88

1 See Bull. 514, pp. 85-87, for other elevations.
Phoenix, northwest corner of Union Academy, Bridge and Cherry streets, Cherry Street front, in water table; aluminum tablet stamped "394 Oswgo" -------------------------------------------------------- Feet. 
395.020

Phoenix, Oswego Canal, in second step of abutment, south end, on Bridge Street; copper bolt stamped "364 A" (canal bench mark). 365.000

Phoenix, Oswego Canal, guard lock 1, in upper hollow quoin between cinchers; copper bolt stamped "363 A" (canal bench mark) 364.400

Baldwinsville, southeast corner of Free Academy, Elizabeth Street; aluminum tablet stamped "423 Oswgo" ------------------------------------------ 424.348

Warners, 700 feet east of crossroads, Mr. Hawley's brick dwelling, in east end of stone water table; aluminum tablet stamped "477 Oswgo"--------------------------------------------------------------- 478.190

Newport, at Warners, southwest corner of hotel barn, 30 feet north of canal; chisel mark on boulder (Erie Canal bench mark) ------------ 412.587

From Bowens Corners south to Peru.

Plainville, 300 feet west of four corners at center of town, north side of road, in top step of schoolhouse, district 5; aluminum tablet stamped "403 Oswgo" ---------------------------------------------------------- 403.689

Peru, highway bridge over Erie Canal, towpath abutment, in west end of bottom step; copper bolt (N. Y. S. B. M. No. 324) ------------ 413.643

At Jordan (set from canal bench mark 330).

Jordan, in Jordan Academy, front of building, 3 feet east of door, in stone water table; aluminum tablet stamped "Oswgo 481"----------------- 480.505

BATAVIA QUADRANGLE.
[Latitude 42° 45'-43°; longitude 78°-78° 15'.]

Primary leveling in 1902 by George Bailey.

From Leroy west along the New York Central R. R. to Batavia, thence south to Attica.

Stafford, crossing just west of station; top of north rail. 900.4

Batavia (Attica branch of New York Central), 0.5 mile from station, in northeast abutment of railroad bridge; bronze tablet stamped "893 Rochester" ------------------------------------------------ 892.386

From Attica along the Erie R. R. east to Linden, thence south to Warsaw.

Dale, 0.25 mile north of station, in southeast abutment of railroad bridge over highway; bronze tablet stamped "1208 Rochester" 1,207.654

Dale, in front of station; top of rail. 1,215.0

Warsaw, 1 mile north of, 400 feet north of intersection with road north and south, in east wall of pipe culvert; aluminum tablet stamped "1008 Rochester" ------------------------------- 1,008.684

From Warsaw north along the Buffalo, Rochester & Pittsburgh By. via Pearl Creek and Pavilion Center to Leroy.

Pearl Creek, 800 feet north of station, southeast abutment of railroad bridge over creek; bronze tablet stamped "954 Rochester" 954.333

Pavilion Center, 400 feet south of, bridge over highway, in top of west end of north wall; bronze tablet stamped "953 Rochester" 953.237

Leroy, West Main Street crossing; top of rail 887.0
BELMONT QUADRANGLE.

[Latitude 42°-42° 15'; longitude 78°-78° 15'.]

Precise leveling in 1898 by E. L. McNair.

From Friendship east along Erie R. R. to Belmont.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Friendship, in front of Erie station; top of south rail</td>
<td>1,532.1</td>
<td>Feet</td>
</tr>
<tr>
<td>Friendship, Union School building, water table at right of main entrance; aluminum tablet stamped &quot;1520 D&quot;</td>
<td>1,521.036</td>
<td></td>
</tr>
<tr>
<td>Belmont, southeast corner of Alleghany County Jail, in stone foundation; aluminum tablet stamped &quot;1416 D.&quot;</td>
<td>1,417.765</td>
<td></td>
</tr>
<tr>
<td>Belmont, in front of Erie station; top of south rail</td>
<td>1,384.8</td>
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</tr>
</tbody>
</table>

Primary leveling in 1896 by E. L. McNair.

From Cuba southeast to Olarksville.

Clarksville, at M. M. Congdon's residence, in stone horse block; copper bolt stamped "U. S. G. S. B. M. 1604 ft." | 1,596.063 |

BERNE QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 74°-74° 15'.]

Precise leveling in 1898 by E. L. McNair.

At Delanson.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delanson, in front of Delaware &amp; Hudson station; top of south rail</td>
<td>812.5</td>
<td></td>
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</table>

Primary leveling in 1898-1900 by Seth Van Loan and J. H. Hodges.

From Delanson south to Gallupville, thence southeast to East Berne.

<table>
<thead>
<tr>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delanson, in front of station; top of rail</td>
<td>813</td>
<td></td>
</tr>
<tr>
<td>Gallupville, Dutch Church, in wall near southeast corner; bronze tablet stamped &quot;831 Albany&quot;</td>
<td>831.310</td>
<td></td>
</tr>
<tr>
<td>Berne, Lutheran Church, in southeast corner; bronze tablet stamped &quot;1015 Albany&quot;</td>
<td>1,014.986</td>
<td></td>
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</tbody>
</table>

From Berne southeast via South Berne to Westerlo, thence north to East Berne.

<table>
<thead>
<tr>
<th>Location</th>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Westerlo, bridge over creek, in top of south end of east abutment; bronze tablet stamped &quot;1144 Albany&quot;</td>
<td>1,144.094</td>
<td></td>
</tr>
<tr>
<td>East Berne, west entrance to village; 300 feet east of Berne road intersection, in embedded stone at bend in road; bronze tablet stamped &quot;1174 Albany&quot;</td>
<td>1,174.310</td>
<td></td>
</tr>
</tbody>
</table>

From East Berne north to Altamont, thence northwest along the Delaware & Hudson R. R. to Delanson.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Altamont, in foundation wall southwest side of Altamont Hotel; bronze tablet stamped &quot;464 Albany&quot;</td>
<td>464.780</td>
<td></td>
</tr>
<tr>
<td>Knox, 1.75 miles west of station, 900 feet west of road crossing, small culvert; point on north end, chiseled circle</td>
<td>771.86</td>
<td></td>
</tr>
<tr>
<td>Duane, 900 feet east of, south end of east abutment of bridge; point on top</td>
<td>894.94</td>
<td></td>
</tr>
</tbody>
</table>

From Westerlo west to Rensselaerville.

Rensselaerville, southwest corner. Miner's storehouse, in stone sill; bronze tablet stamped "1367 Albany." (These figures are uncertain; the true elevation may possibly be 2 feet less.) 1,369.568

Primary leveling in 1914 by F. J. McMaugh.

From Altamont southeast along highways to Indian Ladder, thence west and south to East Berne.

Altamont, in stone underpinning on west side of Altamont Hotel; bronze tablet stamped "Albany 464". 464.780

Altamont, 1.2 miles southeast of, 100 feet southwest of Delaware & Hudson R. R. crossing, east of road, on small boulder; keel mark. 388.03

Altamont, 1.4 miles southeast of, 0.2 mile south of railroad crossing, 400 feet southwest of D. V. Crounse's house, 70 feet west of road, on west side of road, in root of large tree; railroad spike (not marked or painted). 388.31

Altamont, 3.1 miles southeast of, 25 feet northeast of small bridge, 10 feet east of road; cross mark on boulder. 403.02

Altamont, 4.25 miles southeast of, 0.56 mile west of intersection of Indian Ladder Road and road in valley, 50 feet north of road, in root of elm tree, 3.8 feet north of trunk; steel nail. 621.56

Altamont, 4.47 miles southeast of, on south side of Indian Ladder Road, 0.1 mile east of dim wood road, south of fence; point on boulder. 833.22

Altamont, 4.71 miles southeast of, about 600 feet east of intersection of roads at top of hill, 35 feet west of end of wooden fence on south side of road; top of second iron staple. 1,028.91

Altamont, 4.8 miles southeast of, at intersection of roads at picnic ground, 4 feet north of northeast corner of refreshment building, on top of small boulder; chisel flat mark. 1,126.19

John Boyd Thacher Park Triangulation Station, 4.86 miles southeast of Altamont, 330 feet east of intersection of roads, about 20 feet from edge of cliff; tablet set in granite boulder about 4 by 3 by 6 feet bedded in ground about 2 feet, marked "John Boyd Thacher Park. Latitude, 42° 39' 19"; longitude, 74° 01' 00". Elevation above sea 1,125.6 feet. Determined by U. S. Geological Survey, 1914. 1,125.635

Altamont, 5.5 miles southeast of, 0.7 mile west of Park triangulation station, at crossroads, on stone; chisel cross. 1,239.32

Altamont, 6.63 miles southeast of, 400 feet east of white house, on ledge; chisel cross. 1,406.01

Altamont, 7.5 miles southeast of, 250 feet north of bridge, on east edge of road, on stone; chisel cross. 1,329.66

Altamont, 8.2 miles southeast of, 200 feet east of small house, on north side of road, on rock, chisel cross. 1,322.48

Altamont, 10.27 miles southeast of, 80 feet south of bridge, on west side of road, on stone; cross mark. 1,191.54
PRECISE AND PRIMARY LEVELING.

BIG MOOSE QUADRANGLE.

[Latitude 43° 45'-44°; longitude 74° 45'-75°.]

Primary leveling in 1899 by W. W. Gilbert and in 1897 by Clark Brown.

From Eagle Bay via Fourth Lake to Sixth Lake dam.

Fourth Lake; Fulton Chain, at Hess Inn, 175 feet east of sea wall, on lake front of lawn, 70 feet south of main hotel building, 40 feet north of boathouse and billiard room, on north bank of inlet of Fifth Lake Outlet, 3 feet northeast of sidewalk crossing; iron post stamped “R 1717” 1,716.417

From Fulton Chain north along the New York Central & Hudson River R. R. to Nehasane.

Clearwater, 600 feet south of, 35 feet east of tracks, in west face of large boulder; bronze tablet stamped “1753 Albany” 1,751.911

Big Moose, 110 feet east of point of switch at east end of side track, 40 feet south of main track, 25 feet west of west line of Hennessey’s hotel, in northwest face of large boulder; bronze tablet stamped “2036 Albany” 2,034.324

Woods Lake, 0.37 mile south of, 62 rail lengths south of station, 575 feet north of milepost 100, 125 feet south of small stream, 20 feet west of track, in northeast face of large boulder; bronze tablet stamped “1881 Albany” 1,879.778

Beaver River, east side of railroad water tank, in east face of foundation stone under south support; aluminum tablet stamped “1693 Albany” 1,691.863

Keepawa station, 38 rails north of, 75 feet north of 90-mile post, 100 feet west of track, in east face of large boulder; aluminum tablet stamped “1722 Albany” 1,720.968

Nehasane, 200 feet west of Mr. Ames’s house (Nehasane station), 20 feet northwest of main track, in east face of ledge of rock; aluminum tablet stamped “1789 Albany” 1,787.530

From Little Rapids west to Salmon Lake, thence north to Mud Pond (single-spur line, by J. W. Hodges in 1900).

Mud Pond (just south of Clear Lake) in rock at outlet; bronze tablet stamped “2007” 2,007.321

BINGHAMTON QUADRANGLE.

[Latitude 42°-42° 15’; longitude 75° 45'-76°.]

Precise leveling in 1898 by E. L. McNair.

From Lestershire east along railroad to Binghamton.

Lestershire, in front of station, eastbound track; top of south rail 848.1

Binghamton, Broome County courthouse, west end of, at left of basement entrance from Collier Street; aluminum tablet stamped “867 A” 866.056

Binghamton, in front of Erie and Delaware & Hudson station, westbound track; top of north rail 863.5

Binghamton, 1 mile east of, at crossing of Delaware & Hudson and Syracuse, Binghamton & New York railroads; top of south rail 852.6
From Binghamton along Delaware & Hudson R. R. to Sanitaria Springs.

Port Crane, 3.25 miles west of, 900 feet west of road crossing, in parapet wall at east end of culvert under railway; bronze tablet stamped “959 A” ———————————————————— 958.519

Port Crane, in front of station; top of north rail ———————————————————— 1,041.8
Sanitaria Springs, in front of station; top of north rail ———————————————————— 1,117.0
Sanitaria Springs, 0.33 mile east of station, northeast corner of bridge 107 over highway, in coping stone of abutment; bronze tablet stamped “1126 A” ———————————————————— 1,125.617

Precise leveling in 1900 by G. H. Semper.

From Binghamton east along Erie R. R. to Riverside.

Binghamton, Broome County courthouse, west end of, at left of basement entrance from Collier Street; aluminum tablet stamped “867 A” ———————————————————— 866.056

Langdon, 1,000 feet north of station, top of south abutment west side of creek culvert; bronze tablet stamped “860 Albany 1900” ———————————————————— 860.408

Langdon, in front of station; top of rail ———————————————————— 864.4
Kirkwood, in front of station, northbound track; top of rail ———————————————————— 871.0
Kirkwood, 0.5 mile south of, retaining wall of signal tower, in northwest corner, 7 feet northwest of tower house; railroad spike in top of timber of retaining wall ———————————————————— 872.52
Riverside, in front of station; top of rail ———————————————————— 869.8

Primary leveling in 1900 by W. E. Green.

From Kirkwood west to Hawleyton (single-spur line).

Hawleyton, northeast corner of Methodist Episcopal Church; bronze tablet stamped “1277 Albany” ———————————————————— 1,277.314

From Binghamton to West Chenango (single-spur line).

West Chenango, Abbot Methodist Episcopal Church, in southeast corner of wall; bronze tablet stamped “1387 Albany” ———————————————————— 1,388.018

From Binghamton north along Delaware, Lackawanna & Western R. R. to Chenango Forks.

Chenango Bridge, in front of station; top of rail, southbound track ———————————————————— 886.7
Chenango Forks, 0.1 mile north of Delaware, Lackawanna & Western station, iron highway bridge across Tioughnioga River, in southwest abutment, northwest wing, end stone of top course; bronze tablet stamped “— Albany” ———————————————————— 897.457

BLUE MOUNTAIN QUADRANGLE.

[Latitude 43° 45’-44°; longitude 74° 15’-74° 30’.]

Primary leveling in 1896 by A. F. Krause.

Near Indian Lake village.

Indian Lake village, 0.7 mile south of, west end of smooth sloping outcrop 75 feet in length, 10 feet from road, 20 feet east of elm tree 8 inches in diameter; copper bolt stamped “U. S. G. S. 1783 Ft. B. M.” ———————————————————— 1,788.807
From Cedar River House southwest to Wakely dam.

Wakely dam, 4.8 miles north of, 0.7 mile southwest of Brown's house, 20 feet north of bridge over small stream flowing east into Cedar River, 15 feet to right of road; copper bolt stamped " U. S. G. S. B. M. 1,918 " 1,913.585

From Cedar River House northwest to Blue Mountain Lake.

Forest House, 25 feet of north of west of northwest corner of barroom; in outcrop; copper bolt stamped " U. S. G. S. 1941 Ft. B. M. " 1,937.247

Blue Mountain Lake, 3 miles southeast of, bridge over Rock River, on downstream end of easterly abutment; chiseled square 1,774.56

From Blue Mountain Lake north to Long Lake.

Blue Mountain Lake, foundation of schoolhouse, in second stone from southwest corner of second course from top; bronze tablet stamped " 1810 " 1,805.700

Long Lake, 5.5 miles south of, east side of South Pond, 12 feet to left and 2.5 feet above center of road, in bowlder; copper bolt stamped " U. S. G. S. 1855 Ft. B. M. " 1,851.176

Long Lake, 260 feet west of Sabattis's two-story frame house, in west end of outcrop, 130 feet to left of center of road; copper bolt stamped " U. S. G. S. 1663 Ft. B. M. " 1,658.685

Long Lake, front line of Lake House, 35 feet south of house, on bowlder; chiseled mark ("Colvins B. M. 71 A") 1,636.64

Long Lake, 2.75 miles southwest from Grove House; 130 feet east of fork in State road to Forked Lake, 50 feet south of road, north face of large bowlder; aluminum tablet stamped " 1726 Albany " 1,726.514

From Long Lake east to Essex-Hamilton County line.

Long Lake, 4 miles east of, 35 feet west of 4-mile post, in outcrop 14 feet to right and 2.5 feet above center of road; copper bolt stamped " U. S. G. S. 1863 Ft. B. M. " 1,858.465

Essex-Hamilton county line, 0.87 mile west of, south side of Fishing Brook, in bowlder 12 feet to left of and 3.5 feet above center of road; copper plug stamped " U. S. G. S. 1698 Ft. B. M. " 1,694.227

BOONVILLE QUADRANGLE.

[Latitude 43° 15'-43° 30'; longitude 75° 15'-75° 30'.]

Precise leveling in 1900 by C. H. Semper.

At Boonville.

Boonville, canal lock 71, at railroad station, top of west wall, south end; bronze tablet stamped " 1120 Albany 1800 " 1,121.306

Primary leveling in 1901 by A. S. Havens.

From Boonville along public road and Black River Canal via West Leyden, Stokes, and Frenchville to Remsen.

West Leyden, steel bridge over Mohawk River, east abutment, top of north end; bronze tablet stamped " 1493 Albany 1901 " 1,493.500

West Branch, steel bridge over West Branch of Mohawk River, south abutment, top of east end; bronze tablet stamped " 1002 Albany 1901 " 1,001.800

1 See Bull. 514, p. 78, for additional elevations.

Stokes, south entrance to hotel on northeast corner of crossroads, west end of lower step; chisel mark

Feet. 634.68

Delta, steel bridge over Mohawk River, north of State dam, top of north end of east abutment; bronze tablet stamped "516 Albany 1901"

516.160

Westerville, canal lock 16, southwest hollow quoin between anchors; copper bolt

587.622

Frenchville, canal lock 17, top of north end of west wall; copper bolt

595.473

Frenchville, steel bridge over creek, top of west end of south abutment; aluminum tablet stamped "593 Albany 1901"

593.300

Steuben, church on northwest angle of crossroads, near southeast corner of south foundation wall; aluminum tablet stamped "932 Albany 1901"

932.280

BRIERHILL QUADRANGLE.

[Latitude 44° 30'-44° 45'; longitude 75° 30'-75° 45'.]

Primary leveling in 1904 by G. M. Dimmick.

From Ogdensburg southwest along highway to Edwardsville, thence north to Morristown.

Ogdensburg, 4.5 miles south of, in water table of residence of Paul Velour, north end, east face; bronze tablet stamped "317 Albany 1903 Adj"

317.215

Ogdensburg, 8.93 miles south of, in foundation wall of residence of Alonzo Havens, center of east face; aluminum tablet stamped "390 Albany 1903 Adj"

389.916

Ogdensburg, 11.67 miles south of, 200 feet north of residence of Luther Bloodough, 150 feet north of highway, 100 feet northwest of highway sluice, in solid rock; bronze tablet stamped "302 Albany 1903 Adj"

301.488

Edwardsville, in foundation wall of Union Church, east end of south face, bronze tablet stamped "295 Albany 1903 Adj"

295.206

Edwardsville, 2.93 miles northwest of; 2.6 miles southeast of Morristown, in solid rock, 30 feet west of southwest corner of red schoolhouse and 54 feet northeast of intersection at four corners; bronze tablet stamped "300 Albany 1903 Adj"

300.227

Morristown, in foundation wall of stone warehouse, 79.5 feet from north side of United States customhouse; 1-inch bolt (Deep Waterways bench mark)

271.288

BROADALBIN QUADRANGLE.

[Latitude 43°-43° 15'; longitude 74°-74° 15'.]

Primary leveling in 1896 by Clark Brown and in 1899 by J. E. Thomas.

From Factory village west via Galway and Broadalbin to Mayfield.

Galway, in northwest corner of Presbyterian Church; aluminum tablet stamped "838 Albany"

838.450

West Galway, in northwest corner of foundation wall of Presbyterian Church; aluminum tablet stamped "871 Albany"

871.342

Broadalbin, in southeast corner of brick Baptist Church; aluminum tablet stamped "820 Albany"

820.567

1 See Bull. 514, pp. 61-62, for additional elevations.
From Mayfield east via Northampton to East Galway.

Northampton, on southeast corner of retaining wall at south approach to closed wooden bridge; State bench mark (Colvin's), chisel marked "B. M. No. 31". 739.71
Northampton, 2.25 miles south of, on ledge of rock near crest of hill; State bench mark, chisel marked "72". 1,019.87
Northampton, 2.9 miles south of, at intersection of roads, northwest corner, 50 feet north of road; old State bench mark. 1,035.00
Hagedorns Mills, south abutment in southeast corner of bridge over creek; bronze tablet stamped "975 Albany". 974.824
North Galway, square stone monument 200 feet north of road locally known as Mechanic Street; stone chisel marked "N. Y. 17 S. S.". 1,266.699

From Edinburg south via Batchellerville to Northampton.

Batchellerville, in southwest corner of Presbyterian Church foundation wall; bronze tablet stamped "771 Albany". 770.450
Northampton, 0.36 mile northeast of, west side of road; chisel mark on boulder (old State bench mark). 774.06
Northampton, 3.1 miles northeast of, on east side of road near yellow house; chisel mark on boulder (old State bench mark). 799.96
Northampton, in northeast corner of Presbyterian Church; bronze tablet stamped "790 Albany". 789.612

From Edinburg west along road to Northville.

Northville, northeast corner of Methodist Episcopal Church, corner of Main and Washington streets; aluminum tablet stamped "802 Albany". 802.292

From Mayfield northeast along railroad to Northville.

Van Nostrands; road crossing at railroad station. 743.0
Cranberry Creek, Main Street, 300 feet north of railroad crossing and 100 feet west of track, in boulder 3 feet high; copper bolt stamped "U. S. G. S. B. M. 768 ft.". 763.790
Northville; platform of railroad station. 765.0

BROCKPORT QUADRANGLE. 1

[Latitude 43°–43° 15'; longitude 77° 45’–78°.]

Primary leveling in 1897 by E. L. McNair.

At Spencerport.

Spencerport, Amity street, in northeast pier of bridge 99; bronze tablet stamped "519 B". 518.848
Spencerport, New York Central & Hudson River R. R. station; southeast corner of doorstep at east end of building. 528.96
Spencerport, at east end of New York Central & Hudson River R. R. station; top of rail. 526.3

From Brockport south to point 1 mile south of Sweden Center.

Brockport, east end of towpath abutment of Park Avenue canal bridge; lower step (Erie Canal b. m. 107, State engineer's b. m. 475). 510.690

1 See Bull. 514, p. 95, for additional elevations.

Brockport Normal School, in foundation wall in front of office; bronze tablet stamped “538 B”----------------------------- 539.231

Brockport water tower, on stone foundation, west side; chiseled square----------------------------------------------- 607.83

Sweden Center, 1 mile south of, at Geo. W. Way’s residence, in foundation wall under bay window; bronze tablet stamped “639 B”---- 640.191

Spur lines from corrected railroad levels of doubtful value.

At Bergen.

Bergen, West Shore R. R. crossing; top of rail--------------------------- 580.4
Bergen, New York Central & Hudson River R. R. station; top of rail 604.1
Bergen, New York Central & Hudson River R. R. station, in doorstep of baggage room; bronze tablet stamped “604 B”------------------------ 604.959

Southward from Chili station (New York Central R. R.).

Chili station, 380 feet east of, south side of main line of New York Central & Hudson River R. R., in south end of old culvert abutment at southwest corner of flagman’s shanty; bronze tablet stamped “561 B”--------------------------------------------- 562.174
Chili station, 2.5 miles south of, 1.25 miles south of Buckbee Corner, under southeast corner of dwelling house of John Groves, west of road, in foundation wall; bronze tablet stamped “558 B”------------------------ 559.471

At Churchville.

Churchville, 800 feet east of station; west abutment of New York Central & Hudson River R. R. bridge 721 (railroad company’s bench mark)----------------------------------------------- 564.57
Churchville, in front of New York Central & Hudson River R. R. station; top of rail----------------------------------------------- 569.
Churchville, West Shore R. R. crossing; top of rail-------------------- 569.6
Churchville, Union School building, at right side of main entrance; bronze tablet stamped “615 B”------------------------ 615.633

BUFFALO QUADRANGLE.1

[Latitude 42° 45’–43°; longitude 78° 45’–79°.]

Precise leveling in 1902 by D. H. Baldwin.

From Buffalo along the Lake Shore & Michigan Southern Ry. to Athol Springs.

Buffalo (U. S. Engineer Corps bench mark and State Canal bench mark 553), south United States pier lighthouse, upper surface of plinth; east angle stamped by chiseling in stone so as to leave a rounded point-------------------------------------------------------------------------- 590.099
Buffalo, Michigan Street bridge over Buffalo Creek; surface of floor. 587
Buffalo, Lehigh Valley R. R. bench mark, northwest corner of bridge over Ohio Slip; in top of foundation stone; iron bolt----------------------------------------------- 586.228
Buffalo, northwest of New York Central switch tower, 24 feet from old stone milepost, 10 feet west of track; top of rail driven vertically in ground----------------------------------------------- 589.591
Buffalo, grade crossing of Erie R. R., four tracks; top of rail------- 585.4

1 See Bull. 514, pp. 101–103, for additional elevations.
Buffalo, southeast corner of three-span, iron-truss bridge, overhead crossing of the Delaware, Lackawanna & Western R. R., on south corner of fourteenth step from top of wing wall about level with track; chisled square

Buffalo (railroad bench mark), northwest corner two-span, steel-truss bridge 267 over Buffalo Creek, southwest corner of parapet wall; chiseled circle

West Seneca, 0.58 mile north of, end of trestle and two-span bridge overhead crossing, at north end of stone pier about 4 feet above main track, on coping stone; chiseled square

West Seneca, in front of station; top of rail

West Seneca, 1.04 miles south of (New York Central R. R. bench mark), 20 feet south of survey station 606+50, 400 feet south of switch tower; top of rail driven vertically in ground

Athol Springs, in front of station; top of rail

Athol Springs, 0.76 mile south of, milepost "B 11" north face, 6 feet above ground; chiseled square

Athol Springs, 0.91 mile south of, southeast corner of stone-arch culvert bridge, in south face of coping stone; bronze tablet stamped "631 Rochester 1902"

Athol Springs, 1.1 miles south of, road crossing to "Hamburg-on-the-Lake;" top of east rail

Primary leveling in 1903 by George Seidel.

Ebenezer, railroad crossing at station; top of rail

Gardenville, 100 feet north of iron bridge at street crossing; rock on northwest corner

Erie R. R. crossing; top of rail

Delaware, Lackawanna & Western R. R. crossing; top of rail

Forks, 0.2 mile west of station, south side of New York Central tracks, Evangelical Church, to right of main entrance, in foundation wall; bronze tablet stamped "662 Albany 1903"

New York Central R. R. bench mark at milepost 433

New York Central R. R. bench mark at monument 90

CALEDONIA QUADRANGLE.

[Latitude 42° 45'-43°; longitude 77° 45'-78°.]

Precise leveling in 1902 by D. H. Baldwin.

Avon, near Pennsylvania R. R. station, road crossing; top of east rail

Fowlerville, 1.42 miles north of, remains of old canal lock, west wall, near center of top stone; chiseled square

Fowlerville, in front of station; top of east rail

York, in front of station; top of east rail

York, 1.02 miles south of, east side of track, on coping stone of culvert; chiseled square

Piffard, 660 feet north of west side of track, east side wall of drain from salt works, on coping stone; chiseled square

Piffard, in front of station; top of east rail

Piffard, 1.91 miles south of, east side of track, southeast corner of large culvert wall, on coping stone; chiseled square

Cuylerville, in front of station; top of east rail

Cuylerville, 0.53 mile south of, northwest corner of bridge 5, on northwest corner of parapet wall; chiseled square

Delaware, Lackawanna & Western Junction, grade crossing; top of east rail

Primary leveling in 1901 by C. H. Semper and in 1902 by William Kelley.

From Avon along the Erie R. R. to McQueens Crossing.

Avon, 0.57 mile south of station, on Bath branch of Erie R. R., bridge over highway, in west end of south abutment; bronze tablet stamped “609 Rochester”

From Genesee Valley junction south along the Erie R. R. to Mount Morris.

Avon, west side of station; platform

Ashantee, in front of station and creamery; top of rail

South Avon, road crossing near station; top of east rail

Geneseo, in front of station; top of east rail

Geneseo, 60 feet east of Erie freight house, 5 feet south of northwest corner of Delehanty’s warehouse, in west face of foundation wall; aluminum tablet stamped “602 Rochester”

Cuylerville, road crossing; top of east rail

From Avon west along the Erie R. R. via Caledonia to Leroy.

Avon, 1.75 miles west of, bridge over Pennsylvania R. R.; top of rail

Caledonia, John Ball’s storehouse opposite station, in northerly face of foundation wall; aluminum tablet stamped “669 Rochester”

Leroy, junction of the Erie and the Buffalo, Rochester & Pittsburgh railroads; top of rail

Leroy, “Church crossing” of Erie R. R., at southwest corner of, at northeast corner of malthouse lettered “D,” in easterly face; bronze tablet stamped “869 Rochester”

From Mount Morris northwest along the Delaware, Lackawanna & Western R. R. via Greigsville to Linwood.

Leicester, foundation wall of town hall, set in easterly face, 12 feet from northeast corner; bronze tablet stamped “661 Rochester”

Leicester, highway crossing; north rail

Greigsville, in front of station; top of north rail

Craigs, highway crossing; top of north rail

Craigs, 50 feet west of station, on north side of track, near southwest corner of foundation wall of storehouse, on southerly face; bronze tablet stamped “866 Rochester”

Linwood, in front of station; north rail

Canajoharie Quadrangle:

[Latitude 42° 45’–43°; longitude 74° 30’–74° 45’]

Primary leveling in 1898 by Clark Brown.

From Canajoharie to Ames (mean of direct and reverse lines).

Canajoharie, Union Free School, west front, south of stone steps, in stone balustrade; aluminum tablet stamped “A 350”

Marshville, schoolhouse; south end of doorsill

1 See Bull. 514, p. 70–72, for additional elevations.
From Ames east to Blaine, thence south to Sharon.
Blaine, 50 feet from east coping of cemetery wall; aluminum tablet stamped “A 943 ” 943.315
Sharon, opposite Lutheran Church and schoolhouse, outcropping ledge in field, southwest of road; aluminum tablet stamped “A 1212 ” 1,212.822

From Sharon northwest to Sharon Springs station.
Sharon Center, schoolhouse; north end of doorsill 1,437.77
Sharon Springs, 700 feet north of main east and west road through Rockville, 500 feet from top of hill, in outcrop on west side of street; aluminum tablet stamped “A, 1295 ” 1,295.007
Sharon Springs, in front of station; top of rail 1,353.7

From Sharon Springs station northwest to Sprout Brook, thence east to Ames.
Sprout Brook, 1 mile south of, at road corner; south end of schoolhouse doorsill 783.73
Hessville, 0.5 mile south of schoolhouse, 150 feet north of road to west, opposite house and 15 feet east of road, in bowlder 8 feet broad; aluminum tablet stamped “A 826 ” 825.987

From Fort Plain west to Hallsville.
Fort Plain, Erie Canal lock 32, towpath coping, end of anchor, northeast gate; chiseled cross within circle (Canal b. m. 171) 312.151
Fort Plain, Union Free School, Division Street front, water table 1 foot from south corner; aluminum tablet stamped “A 316 ” 317.090
Fort Plain, 1.5 miles west of, Valley schoolhouse; west end of doorsill 394.53
Hallsville, south end of cheese factory, stone foundation, 1 foot from east corner; aluminum tablet stamped “A 509 ” 509.242

CANANDAIGUA QUADRANGLE.
[Latitude 42° 45'-43°; longitude 77° 15'-77° 30'.]
Primary leveling in 1899 and 1901 by C. H. Semper and W. F. Hammond.

From Canandaigua west along the New York Central & Hudson River R. R. to East Bloomfield.
Canandaigua, southwest corner of courthouse, in foundation wall; bronze tablet stamped “ 706 Oswego 1899 ” 766.916
Holcomb, in front of station; top of rail 877.0
East Bloomfield, southeast corner of hotel; aluminum tablet stamped “ 1017 Oswego 1899 ” 1,016.760

From Manchester west along the Lehigh Valley R. R. to Fishers, thence north to Bushnell Basin.
Tuttles, in top of large bowlder 500 feet south of station; bronze tablet stamped “ 599 Oswego 1899 ” 599.598
Victor, 1,500 feet east of, in south end of east abutment of railway cattle pass; bronze tablet stamped “ 559 Oswego 1899 ” 500.099

From Wheeler south along highway via Braggville to Bristol Center (single-spur line).
Bristol Center, northwest corner of Methodist Episcopal Church, in foundation wall; bronze tablet stamped “ 931 Oswego 1899 ” 930.898

From point 2 miles east of Canandaigua south on east side of Canandaigua Lake (single-spur line).

Canandaigua Lake, surface of water September 9, 1899. 
Cottage City, on Lake road, east side of Canandaigua Lake, south wall of bridge, in top of east end; bronze tablet stamped "713 Oswego 1899". 

Feet. 
685.3

CANASERAGA QUADRANGLE.

[Latitude 42° 15′–42° 30′; longitude 77° 45′–78°.

Precise leveling in 1898 by E. L. McNair.

At Alfred.

Alfred, 0.4 mile south of, east end of bridge 4 over road and creek; 
top of north rail. 
1,607.7

Alfred, Erie station, water table under front office window, facing track; aluminum tablet stamped "1610 D". 
1,611.391

Precise leveling in 1902 by D. H. Baldwin.

From Swain east along Erie R. R. to Canaseraga.

Swain, 1.7 miles north of, southeast corner of steel-girder bridge over small stream, on parapet wall; chiseled square. 
1,305.38

Swain, north of the Pittsburg, Shawmut & Northern R. R. station, near southwest corner of highway bridge, south of railroad, in west wing wall, on large flat stone; chiseled square. 
1,298.58

Swain, 200 feet south of Erie R. R. station, small Union Church, northwest corner of, in foundation wall; aluminum tablet stamped "1316 Rochester 1902". 
1,316.658

Swain, in front of Erie station; top of north rail. 
1,307.5

Swain, 0.4 mile southeast of, northwest corner of bridge 9, on coping stone of foundation; chiseled square. 
1,297.10

Swain, 1.79 miles southeast of, northeast corner of bridge 8, on parapet wall; chiseled square. 
1,275.69

Garwood, in front of station; top of south rail, northbound track. 
1,274.9

Canaseraga, 0.2 mile northwest of, northeast corner of bridge 64, on foundation stone; chiseled square. 
1,260.33

Canaseraga, in front of station, westbound track; top of south rail. 
1,257.0

Canaseraga, Kingston Hotel, southwest corner, in water table; aluminum tablet stamped "1253 Rochester 1902". 
1,252.973

Leveling in 1914 by A. J. Kavanagh.

From Swain south along Pittsburg, Shawmut & Northern R. R. to Angelica.

Swain, 200 feet south of Erie R. R. station, northwest corner of small Union Church, in foundation wall; aluminum tablet stamped "1316 Rochester 1902". 
1,316.658

Swain, 1.42 miles south of, on Shawmut R. R., on west side of small stone culvert; chiseled square, painted "U. S. T. B. M. 1414". 
1,414.13

Swain, 2.56 miles south of, 0.17 mile south of road crossing, on small boulder 6 feet southeast of track; chiseled square painted "U. S. T. B. M. 1506". 
1,506.22

Grove, opposite station; top of rail. 
1,614.3

1 See Bull. 514, p. 82, for additional elevations.
PBECISE AND PRIMARY LEVELING.

Grove, 0.33 mile southwest of station, in northeast wing of concrete overhead crossing, top tier; bronze tablet, stamped "1639"........... 1,639.62
Grove, 1.08 miles southwest of, 0.2 mile north of switch, on boulder 25 feet east of track; chiseled square, painted "U. S. T. B. M. 1704"---------------------------------------------------------- 1,704.27
Center, 0.5 mile northeast of, on boulder 5 feet west of track; chiseled square, painted "U. S. T. B. M. 1710.2"----------------------------- 1,710.36
Center, opposite station, top of rail__________________________________ 1,710.3
Center, 1.06 miles southwest of station, 0.15 mile north of sign "Tracys", 30 feet west of track, in boulder at foot of two small poplar trees; bronze tablet stamped "1770"--------------------------------------- 1,770.605
Birdsall, 0.32 mile northeast of station, 180 feet north of sawmill crossing, on boulder 6 feet east of track; chiseled square painted "U. S. T. B. M. 1743"--------------------------------------------------- 1,743.62
Birdsall, opposite station; top of rail__________________________________ 1,729.6
Birdsall, 0.56 mile southwest of, in top of south side of wooden culvert; copper nail and washer painted "U. S. T. B. M. 1713.5"----------------------------- 1,713.75
Birdsall, 2.04 miles southwest of, 210 feet north of road crossing, at foot of telegraph pole W-28, on stone culvert; chiseled square painted "U. S. T. B. M. 1651"--------------------------------------------------- 1,651.44
Scholes, in front of station; top of rail------------------------------- 1,624.4
Scholes, 1.63 miles southwest of, 250 feet south of road crossing, in boulder 6 feet east of track; bronze tablet stamped "1608".............. 1,608.598
Bennett, 0.81 mile northeast of, at south end of long siding, in switch block; copper nail and washer painted "U. S. T. B. M. 1591"----------------------------- 1,591.00
Bennett, opposite station; top of rail------------------------------ 1,583.4
Bennett, 150 feet south of station, on northeast corner of abutment of small bridge; copper nail and washer painted "U. S. T. B. M. 1584"--------------------------------------------------- 1,584.28
Bennett, 1.14 miles southwest of, in boulder 6 feet east of track; bronze tablet stamped "1545"------------------------------------------- 1,545.65
County House, 0.8 mile northeast of, 110 feet north of road crossing, on east side concrete culvert; chiseled square painted "U. S. T. B. M. 1511"--------------------------------------------------- 1,511.82
County House, 270 feet northeast of station, on top course, southwest abutment of railroad bridge; chiseled square painted "U. S. T. B. M. 1501"------------------------------------------- 1,501.92
County House, 0.53 mile west of, in southeast corner concrete abutment of railroad bridge; bronze tablet stamped "1486"----------------------------- 1,486.102

From County House along highways east to Blinn's Four Corners, thence south to Phillips Creek, thence east to Alfred station.

Blinn's Four Corners, in yard of brown house, 4 feet from road, on small boulder; chiseled square painted "U. S. T. B. M. 1621".............. 1,620.87
Blinn's Four Corners, 500 feet south of, in boulder 4 feet west of road; bronze tablet stamped "1645"------------------------------------------- 1,645.42
Blinn's Four Corners, 1.10 miles south of, on large sandstone boulder; chiseled square painted "U. S. T. B. M. 1825"----------------------------- 1,824.56
Blinn's Corners, 2.16 miles south of, 1.07 miles north of crossroad, on Phillips Creek road, on small boulder 6 feet south of road; chiseled square painted "U. S. t. b. m. 1852"----------------------------- 1,852.32

104787°—Bull. 671—18—3
Phillips Creek, 0.75 mile west of, on top of stump 6 feet south of road; copper nail and washer painted "U. S. t. b. m. 1803" 1,802.92
Phillips Creek, in southwest abutment of bridge at cheese factory; bronze tablet stamped "1836" 1,836.568
Phillips Creek, 1.45 miles east of, on boulder beside small sluiceway; chiseled square marked "U. S. t. b. m. 2169" 2,168.99
Five Corners, 1 mile west of, in front of abandoned house, on horseblock; chiseled square painted "U. S. t. b. m. 2258" 2,257.67
Five Corners, in west end of south side of small bridge; bronze tablet stamped "2034" 2,034.455
Alfred, 1.49 miles west of, on south side concrete culvert; chiseled square painted "U. S. t. b. m. 2116" 2,115.76
Alfred, 0.7 mile west of, at edge of village, on north side concrete culvert; chiseled square painted "U. S. t. b. m. 1842.6" 1,842.63
Alfred, Main Street, in northwest wing wall of bridge; bronze tablet stamped "1730" 1,730.019
Alfred station, 1.06 miles west of, on south side concrete culvert; chiseled square marked "389.7" 389.82
Alfred station, Erie station, water table under front office window facing track; aluminum tablet stamped "1611 D" 1,611.391

CANTON QUADRANGLE.

[Latitude 44° 30'-44° 45'; longitude 75°-75° 15 '.]

Primary leveling in 1904 by G. M. Dimmick and in 1908 by F. B. Northrup.

From DeKalb Junction northeast along Rome, Watertown & Ogdensburg R. R. to Canton, thence north along highway to Madrid.

Canton, 5.5 miles southwest of, 9 feet south of railroad, 6 feet east of west line fence of highway, in granite ledge; chiseled square marked "389.7" 389.82
Canton, 4.0 miles southwest of, 12 feet south of railroad, 21 feet north of south line fence, in granite ledge; aluminum tablet stamped "398" 397.971
Canton, 1.0 mile southwest of, on southwest corner of railroad bridge abutment; chiseled square marked "367.6" 366.55
Canton, town hall, east end of top step of main entrance; aluminum tablet stamped "362" 363.132
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375" 375.00
Canton, 4.5 miles north of, on old State road, in granite boulder, 720 feet north of farmhouse of H. E. & H. F. Egglestone, 10 feet west of center of road; aluminum tablet stamped "349" 349.045
Canton, 6.5 miles north of, on old State road, 15 feet east of center of road, on granite boulder; chiseled square marked "331.9" 330.93
Madrid, 3.9 miles south of, on old State road, on farm of J. W. Wright, 525 feet northeast of crossroad, 130 feet east of center of road, in granite boulder; aluminum tablet stamped "315" 314.398
Madrid, 1.9 miles south of, on old State road, 15 feet west of center of road, 17 feet east of west line fence, on stone; chiseled square marked "357.2" 356.25
Madrid, in foundation wall of Methodist Church, center of east face; bronze tablet stamped "320" 319.557
PRECISE AND PRIMARY LEVELING.

From Norwood west along highway to Madrid Springs.

Norwood, in foundation wall of Music Hall, north end of east face, 28 inches above ground; aluminum tablet stamped "330". 
330.237

Norwood, 1.2 miles west of, in old stone culvert at public highway crossing, 18 feet from center of track, 24 feet west of center of road, 3 feet west of north-south line fence; chiseled square marked "330.2". 
330.57

Norwood, 3.2 miles west of, 18 feet north of south line fence, 28 feet south of center of track, in granite boulder; aluminum tablet stamped "328". 
328.141

Madrid, 2.0 miles east of station, 33 feet northeast of center of track, 15 feet north of center of road, 18 feet south of north line fence, on granite boulder; chiseled square marked "308.6". 
309.18

From Madrid Springs west along highway to Lisbon.

Madrid, 1.1 miles south of, 0.5 mile east of Madrid station, on north end of east abutment of railroad bridge over Grass River; chisel mark; abutment marked "296.6". 
295.629

Madrid, 3.9 miles west of station, 65 feet north of railroad, 21 feet north of north line fence, in granite outcrop; aluminum tablet stamped "323". 
322.668

Lisbon, in foundation wall of Methodist Church, center of south face; bronze tablet stamped "357". 
357.696

From Canton east along highways via Crary Mills to Colton.

Canton, town hall, east end of top step of main entrance; aluminum tablet stamped "362". 
363.132

Canton, 2.9 miles southeast of, T road east to Crary Mills, on boulder west of junction; paint mark; boulder marked "377.8". 
377.91

Canton, 3.0 miles southeast of, T road east, 600 feet south of bridge over Granite Brook, north abutment, west bridge seat; aluminum tablet stamped "363". 
363.957

Crary Mills, west abutment of bridge over Granite Brook, southwest corner of abutment; aluminum tablet stamped "462". 
463.383

Crary Mills, 3.1 miles southeast of, southeast abutment of bridge over Leonards Brook; aluminum tablet stamped "597". 
597.404

CARTHAGE QUADRANGLE.1

[Latitude 43° 45' - 44°; longitude 75° 30' - 75° 45'.]

Precise leveling in 1900 by C. H. Semper.

From Castorland northwest along Rome, Watertown & Ogdensburg R. R. to Carthage.

Castorland, 1,600 feet south of station, bridge over Snake Creek, top of north abutment, west side; bronze tablet stamped "738 Albany 1900". 
738.346

Castorland, in front of station; top of rail. 
746.2

Deer River, in front of station; top of rail. 
741.2

Carthage, iron highway bridge over Black River, end of bridge rail 10 feet west of railroad, top of wing wall, east end; bronze tablet stamped "741 Albany 1900". 
742.143

Carthage, in front of station; top of rail. 
737.4

1 See Bull. 514, p. 27, for additional elevations.
Primary leveling in 1902 by J. B. Maguire.

From Lowville west along highway to Gardners Corners, thence north via Copenhagen to Champion, thence east to Carthage.

Gardners Corners, about 5.2 miles east of, northwest corner of foundation of school No. 14 in Martins Township; bronze tablet stamped "1700 Albany" 1,700.643

Gardners Corners, northwest corner of post office and general store; bronze tablet stamped "1697 Albany" 1,697.560

Copenhagen, highway bridge over Deer River, in north wing of west abutment; aluminum tablet stamped "1174 Albany" 1,174.462

Champion, 400 feet south of crossroads, west wall of culvert; bronze tablet stamped "1011 Albany" 1,010.791

CATSKILL QUADRANGLE.¹

[Latitude 42°-42° 15'; longitude 73° 45'-74°.]

Primary leveling in 1900 by George Bailey.

At Hudson.

Hudson, on northeast end of upper station, 1 foot from ground; bronze tablet stamped "Albany 151" 151.543

Hudson, Diamond Street; crossing electric railway and railroad 151.1

CATTARAUGUS QUADRANGLE.

[Latitude 42° 15'-42° 30'; longitude 78° 45'-79°.]

Precise leveling in 1898 by E. L. McNair.

From Perrysburg southeast along Erie R. R. to Cattaraugus.

Perrysburg, in front of Erie station; top of rail 1,265.1

Perrysburg, 400 feet east of waiting room of Erie station, in keystone at north end of arch culvert under railway; bronze tablet stamped "1261 D" 1,262.417

Dayton, 950 feet north of Erie station, 37.5 feet east of center of track, coping of tunnel underneath Erie track, second stepstone from top; bronze tablet stamped "1322 D" 1,322.926

Dayton, in front of Erie station; top of rail 1,337.1

Cattaraugus, Union School building, in water table at right of main entrance; bronze tablet stamped "1401 D" (possibly restamped "1384 D") 1,385.631

Cattaraugus, in front of Erie station; top of rail 1,415.2

Primary leveling in 1905 by R. P. Thompson.

From Collins station along Pennsylvania R. R. to Dayton.

Collins station, in southeast corner of building owned by F. Mathan, in water table; bronze tablet stamped "875 Adj 1903" 875.150

¹ See Bull. 514, p. 46, for additional elevations.
PRECISE AND PRIMARY LEVELING.

CAZENOVIA QUADRANGLE.

[Latitude 42° 45'–43°; longitude 75° 45'–76°.]

Primary leveling in 1897 by Clark Brown.

From Apulia east to Fabius.

Fabius, 100 feet west of crossroads, Main and Cemetery streets, in wall under west window of flat-roofed frame house; tablet stamped "1284 S" ___________________________________________________________________________ 1,284.670

From Fabius northeast to Delphi, thence north to Oran.

Oran, 1.5 miles southeast of, 1.5 miles southeast of railroad crossing of Cherry Valley turnpike, 500 feet northwest of rock cut, on north coping of cattle pass; chiseled square_________________ 1,092.08
Oran, 300 feet west of church, 20 feet north of road, copper bolt in prominent boulder; stamped "S 793" ____________________ 793.678

From Fabius south via Keeney to Cuyler.

Fabius, 1.75 miles south of, east end of south abutment of iron bridge; chiseled square ______________________________ 1,229.79
Keeney, 500 feet east of schoolhouse, northeast wing of iron bridge, top stone; chiseled square__________________________ 1,209.31
Cuyler, 1 mile northeast of, near end of northeast wing of iron bridge over Tioughnioga River; chiseled square________________ 1,206.31

From Cuyler north via Deruyter to Deruyter reservoir.

Deruyter, foundation of water tank, in coping, side next to track; iron bolt __________________________________ 1,284.70
Deruyter reservoir dam, west end of, south parapet of spillway arch, east end, face corner of coping; copper bolt stamped "1286 S" ___ 1,286.618

From Deruyter northeast to Sheds Corners, thence east to near Georgetown, thence north to Erieville.

Deruyter, 2.5 miles north of by 0.5 mile east of, railroad bench mark 92, reservoir road, opposite old sawmill, south parapet of railroad culvert; iron bolt set in lead____________________________ 1,319.110
Sheds Corners station, 600 feet south of, Tioughnioga River railroad bridge, north abutment, west end parapet; iron bolt set in cement (railroad bench mark 94) _________________________________ 1,386.053
Sheds Corners station, 600 feet south of, railroad bridge over Tioughnioga River, bridge seat, west end of south abutment; copper bolt stamped "1383 S" ___________________________ 1,384.360
Georgetown, 1.5 miles west of, on road to Sheds Corners, 75 feet north of road to Erieville, 20 feet north of brook, 15 feet west of road, 4 feet east of road fence; iron post stamped "S 1538" __________ 1,538.754
Erieville, railroad bridge over road south of, on top stone, south end west abutment; chiseled square_________________________ 1,619.10

1 See Bull. 514, pp. 82–83, for other elevations.
From Erieville north via Nelson to Fenner, thence southwest to Cazenovia, thence northwest to Oran.

Erieville, reservoir gatehouse, 6 feet west of door, in projection of feet. Copper bolt stamped "1473 S" 1,474.117

Nelson, 500 feet south of crossroads, on face corner of bottom stone, east end of north abutment of bridge; chiseled square 1,432.24

Fenner, 1 mile south of, 1,000 feet north of Peterboro turnpike, 150 feet south of orchard, 75 feet west of road, in outcrop; copper bolt stamped "1466 S" 1,467.544

Cazenovia, 942 feet south of Lehigh Valley R. R. station; iron pin in northwest corner of north abutment (railroad bench mark 103) 1,187.713

Cazenovia, south entrance of chapel building of seminary, water table under pilaster at east side of door; bronze tablet stamped "S 1246" 1,247.392

Cazenovia, West Shore R. R. pumping station, foundation of water tank, north pedestal next to track; chiseled square 1,196.99

Cazenovia, 2 miles northwest of West Shore R. R. station, highest point of stone monument over tunnel, 40 feet north of road 1,265.14

CHATEAUGAY QUADRANGLE.

[Latitude 44° 45'-45°; longitude 74°-74° 15'.]

Leveling in 1913 by A. J. Kavanagh.

From point 6.1 miles northwest of Star southwest along Rutland R. R. to near Malone Junction.

Chateaugay, 3.64 miles east of, 200 feet west of where Marble River crosses Rutland R. R., on boulder 40 feet north of track; chiseled square painted "U. S. B. M. 1062" 1,062.17

Chateaugay, 2.89 miles east of, 0.3 mile west of point where County Line road crosses Rutland R. R., in large boulder in base of fence; bronze tablet stamped "1049" 1,049.125

Chateaugay, 1.6 miles east of, at point where old military turnpike crosses Rutland R. R., on south wing of overhead crossing; chiseled square painted "1014" 1,013.78

Chateaugay, 0.85 mile east of, 0.45 mile west of road to south, in bottom of telegraph pole 25 feet north of track; top of railroad spike painted "U. S. B. M. 996" 995.90

Chateaugay, 230 feet west of station, 15 feet south of track, in concrete supporting wall of sidewalk; bronze tablet stamped "972" 971.600

Chateaugay, 1.34 miles west of, in base of wooden viaduct, middle of north side; copper nail and washer painted "U. S. T. B. M. 941.6" 941.33

Chateaugay, 2.55 miles west of, 65 feet east of milepost 0.71, 25 feet north of track, on boulder back of telephone pole; chiseled square painted "U. S. T. B. M. 903" 902.44

Burke, 0.42 mile east of station, 155 feet east of road forks, on south side of concrete culvert; bronze tablet stamped "885" 884.321

Burke, in front of station; top of rail marked "876" 875.6

Burke, 0.64 mile west of station, 85 feet east of railroad crossing, on south wing of concrete culvert, on highway; chiseled square painted "U. S. T. B. M. 856.5" 856.12

Burke, 1.67 miles west of, at road crossing, 6 feet south of track, on east end of wooden sluiceway; copper nail and washer painted "U. S. T. B. M. 832.3" 831.89
Burke, 3.1 miles west of, 0.6 miles east of road crossing, 50 feet north of track, in boulder near fence; bronze tablet stamped "793"--Feet. 792.227
Malone Junction, 2.1 miles east of, 390 feet east of road crossing, on north side stone culvert; chiseled square painted "U. S. T. B. M. 769.9"-------------------------- 769.49

From point near Burke along highways north and west to point northeast of Constable.

Burke, 0.42 mile east of station, 155 feet east of road forks, in south side of concrete culvert; bronze tablet stamped "885"-------------------------- 884.321
Burke, 1.55 miles east of station, on bottom stone of northeast wing of overhead crossing; chiseled square painted "U. S. T. B. M. 886.5"-------------------------- 886.20
Thayers Corners, 0.2 mile north of, at schoolhouse road fork, on rock 20 feet east of north-south road; chiseled square painted "U. S. T. B. M. 736.6"-------------------------- 736.22
Thayers Corners, 1.41 miles north of, 205 feet south of road to east, 30 feet west of road, in boulder beside fence; bronze tablet stamped "597"-------------------------- 597.166
Thayers Corners, 2.23 miles north of, in bridge over creek, on top of stone of southwest abutment; chiseled square painted "U. S. T. B. M. 504.8"-------------------------- 504.41
Thayers Corners, 3.35 miles north of, 90 feet north of north corner of Burke schoolhouse, 15 feet east of road, on boulder in fence; chiseled square painted "U. S. T. B. M. 502.2"-------------------------- 501.89
Thayers Corners, 5.06 miles north of, 0.21 mile west of turn in road, in George Marsh's barnyard, 50 feet south of barn in granite boulder; bronze tablet stamped "393"-------------------------- 392.519
Thayers Corners, 6.33 miles northwest of, 520 feet east of John Bush's farmhouse, 15 feet north of road on small boulder; chiseled square painted "U. S. T. B. M. 356.4"-------------------------- 356.04
Thayers Corners, 7.34 miles northwest of, at entrance to Mrs. Sarah Price's farm, at west side of driveway on boulder 3 feet from road; chiseled square painted "U. S. T. B. M. 341"-------------------------- 340.27
Thayers Corners, 8.07 miles northwest of, opposite Luke Fee's farmhouse, 35 feet south of road in sandstone boulder; bronze tablet stamped "309"-------------------------- 308.597
Constable, 4.65 miles north of station, 0.3 mile east of railroad on southeast abutment of bridge over "Susie's Brook," top stone; chiseled square painted "U. S. T. B. M. 277"-------------------------- 276.70
Constable, 3.7 miles north of station, 290 feet south of milepost M 9, 500 feet north of road crossing, in southwest corner of concrete cowpass; bronze tablet stamped "296"-------------------------- 295.891

From point near Burke along highways south and southeast to point northwest of Lyon Mountain.

Burke, 0.42 mile east of station, 155 feet east of road forks, on south side of concrete culvert; bronze tablet stamped "885"-------------------------- 884.321
Burke, 1.32 miles south of, 750 feet north of Trout River bridge, on rock 12 feet west of road; chiseled square painted "U. S. T. B. M. 973"-------------------------- 972.53
Burke, 2.18 miles south of, on rock 20 feet west of road, beside fence; chiseled square painted "U. S. T. B. M. 1096.6"-------------------------- 1,096.27
Burke, 3.2 miles south of, 2.55 feet east of where road turns east, in boulder under spruce tree in front of James Gardner's house; bronze tablet stamped "1176" 1,176.082
Belmont Center, 0.66 mile west of church, 190 feet east of T road to north, on granite boulder 12 feet north of road; chiseled square painted " U. S. T. B. M. 1302.9 " 1,302.41
Belmont Center, at road forks at church, on boulder at foot of telephone pole, 12 feet south of road; chiseled square painted "1326.3" 1,325.87
Belmont Center, 0.82 mile southeast of church, 245 feet east of Joseph Bushey's house, in granite boulder 10 feet north of road; bronze tablet stamped "1421" 1,420.436
Belmont Center, 1.64 miles southeast of church, in bridge over creek, at east end of north side; copper nail and washer painted " U. S. T. B. M. 1330" 1,329.63
Belmont Center, 2.94 miles southeast of church, in front of brown house on south side of road, on large boulder beside road; chiseled square painted " U. S. T. B. M. 1641.5" 1,641.00
Chateaugay Lake village, at crossroads west of bridge, on west side of concrete culvert; bronze tablet stamped "1351" 1,350.459
Chateaugay Lake, 0.36 mile south of Banner House, on large boulder 10 feet west of road; chiseled square, painted " U. S. T. B. M. 1315" 1,314.82
Chateaugay Lake, 1.14 miles south of Banner House, on east side of concrete culvert; chiseled square painted " U. S. T. B. M. 1324" 1,323.61
Lyon Mountain, 8 miles north of, west side of road, 3 feet east of clump of 5 small maple trees, 10 feet from intersection, on top of boulder; chiseled square 1,331.13
From point 3.2 miles south of Burke along highways west, south, east, and northeast to Chateaugay Lake.
Burke, 3.2 miles south of, 255 feet east of where road turns east, in boulder under spruce tree in front of James Gardner's house; bronze tablet stamped "1176" 1,176.082
Burke, 4.26 miles southwest of, on concrete bridge over small stream, east side; chiseled square painted " U. S. T. B. M. 1184.2" 1,183.89
Burke, 5.36 miles southwest of, 0.3 mile east of white church corner, on south wing of concrete culvert; chiseled square painted " U. S. T. B. M. 1204.7" 1,204.31
Burke, 6.19 miles southwest of, 0.53 mile south of white church, 30 feet south of Orson Wilson's house, in boulder beside road; bronze tablet stamped "1217" 1,217.042
Burke, 7.5 miles south of, 1.88 miles south of white church, on southwest corner of concrete bridge over Wentworth Brook; chiseled square painted " U. S. T. B. M. 1247.9" 1,247.52
Kingville, 2.34 miles northwest of, on boulder in middle of old road; chiseled square painted " U. S. T. B. M. 1242.4" 1,242.09
Kingville, 1 mile west of, 60 feet east of bridge over creek, at foot of sawdust hill, in boulder 20 feet north of road; bronze tablet stamped "1255" 1,254.789
Kingville, at bend in road at sawmill, on boulder 30 feet north of road; chiseled square painted " U. S. T. B. M. 1421.4" 1,421.12
Kingville, 1 mile east of, 665 feet east of creek, 60 feet east of road forks, in birch side log in bridge over brook; copper nail and washer, painted " U. S. T. B. M. 1516.7" 1,516.42
Precise and Primary Leveling.

Kingville, 1.59 miles east of, 0.72 mile east of O'Donnell's camp, on boulder in middle of wood road; bronze tablet stamped "1619"—1,618.300

Kingville, 2.37 miles east of, on side of road to "Lot 46 Camps" on boulder; chiseled square painted "U. S. T. B. M. 1692"——1,691.78

Kingville, 3.29 miles east of, on boulder in wood road (old tote road to Rabbit Inn); chiseled square painted "U. S. T. B. M. 1788"——1,787.87

Chateaugay Lake, 4.84 miles south of, 1.45 miles south of Rabbit Inn, on Fred Hoy's tote road, in rock beside road; bronze tablet stamped "1920"——1,920.177

Chateaugay Lake, 3.85 miles south of, 0.45 mile south of Rabbit Inn, on boulder in middle of tote road; chiseled square painted "U. S. T. B. M. 1605"——1,604.88

Chateaugay Lake, 2.8 miles south of, 0.8 mile north of Rabbit Inn, 15 feet east of road on large boulder; chiseled square painted "U. S. T. B. M. 1373"——1,572.69

Chateaugay Lake, 2.17 miles south of, on Hoy's tote road, 0.7 mile south of main road, in granite bowlder 6 feet east of road; bronze tablet stamped "1645"——1,644.418

Chateaugay Lake, 1.47 miles south of where Hoy's tote road leaves main road, on boulder at fork; chiseled square painted "U. S. T. B. M. 1619"——1,619.24

Chateaugay Lake, 0.85 mile south of, at three corner on hill, on boulder at corner; chiseled square painted "U. S. T. B. M. 1524"——1,524.03

Chateaugay Lake, at crossroads, west of bridge, in west side of concrete culvert; bronze tablet stamped "1351"——1,350.459

From Whippleville southeast along New York Central & Hudson River R. R. to Owls Head.

Whippleville, 720 feet south of station, on southwest wing of stone culvert; chiseled square painted "U. S. T. B. M. 1112.4"——1,111.93

Whippleville, in front of station; top of rail, marked "1103.7"——1,103.3

Whippleville, 1.34 miles south of station, 475 feet south of milepost 168, on granite bowlder, 25 feet east of track; chiseled square painted "U. S. T. B. M. 1211.4"——1,210.97

Chasm Falls, 1.09 miles north of station, in northeast wing of concrete overhead crossing; bronze tablet stamped "1270"——1,269.159

Kingville, 3.5 miles west of, at T road, 0.3 mile east of railroad, on large granite boulder; chiseled square painted "1310.7"——1,312.18

Chasm Falls, 0.27 mile south of station at grade crossing, 35 feet southwest of crossing, on granite boulder; chiseled square painted "U. S. T. B. M. 1327.9"——1,327.46

Chasm Falls, 1.09 miles north of station in northeast wing of concrete overhead crossing; bronze tablet stamped "1270"——1,269.159

Chasm Falls, in front of station; top of rail marked "1302.9"——1,302.4

Chasm Falls, 0.27 mile south of station, at grade crossing, 35 feet southwest of crossing, on granite boulder; chiseled square painted "U. S. T. B. M. 1327.9"——1,327.46

Owls Head, 1.17 miles north of station, 90 feet north of milepost 164, on west side of stone culvert; chiseled square painted "U. S. T. B. M. 1466"——1,465.73

CHAUTAUQUA QUADRANGLE.

[Latitude 42°–42° 15'; longitude 79° 15'–79° 30'.]

Primary leveling in 1902 by G. M. Dimmick.

From Wooglin southeast along Jamestown, Chautauqua & Lake Erie Ry. via Chautauqua Point to Jamestown.

Chautauqua Point, in front of station; top of south rail 1,323.2
Dewittville, in front of station; top of south rail 1,314.3
Dewittville, foundation wall of Methodist Church, 7.5 feet west of southeast corner, in southern side; bronze tablet stamped "1319 Dunkirk" 1,319.864
Starr Farm, in front of station; top of south rail 1,314.4
Midway Grove; top of south rail 1,317.7
Midway, highway crossing near station; top of south rail 1,319.8
Warners, in front of station; top of south rail 1,315.0
Giffords, in front of station; top of south rail 1,313.0
Bay View, in front of station platform; top of south rail 1,323.0
Bemus Point, in front of station; top of south rail 1,358.8
Bemus Point, 440 feet south of station, west side of Cemetery Street, on the southerly side of A. G. Barrett's residence; in foundation wall of bay window, bronze tablet stamped "1345 Dunkirk" 1,345.529
Phillips Mills, in front of station; top of south rail 1,316.6
Colburns, in front of station; top of south rail 1,321.0
Bellevue, in front of station; top of south rail 1,321.6
Driftwood, in front of station; top of south rail 1,323.5
Griffith, in front of station; top of south rail 1,318.9
Greenhurst, in front of station; top of south rail 1,324.3
Fluvanna, in front of station; top of south rail 1,313.0
Fluvanna, Chautauqua Lake, June 13, 1902; water surface 1,308
Jamestown, Isabella Avenue; top of south rail 1,311.3

From Bemus Point along highway northeast to Ellery (single-spur line).

Ellery, Cowden Bros. store, in foundation wall, north face; bronze tablet stamped "1758 Dunkirk 1902" 1,758.450

From Jamestown southwest along Erie R. R. to Niobe (Grant station), thence north along highway to Panama, thence west to North Clymer.

Jamestown, 3,750 feet west of north end of east abutment of Erie R. R. bridge over Chautauqua Outlet, in bridge seat; bronze tablet stamped "1324 Dunkirk 1902" 1,321.470
Lakewood, highway crossing near station; top of north rail 1,352.1
Lakewood post office, on east side of Chautauqua Avenue, 4 feet east of southwest corner of R. H. Maxim's building (post office), on south side; aluminum tablet stamped "1362 Dunkirk" 1,361.810
Ashville, in front of station; north rail 1,353.3
Watts Flats, in front of station; top of north rail 1,452.7
Niobe, north end of brick wall, west abutment of Erie R. R. bridge, 600 feet west of depot; bronze tablet stamped "1434 Dunkirk" 1,433.522
Panama, Hotel Berny, north face, east corner, in water table; aluminum tablet stamped "1551 Dunkirk" 1,550.667
PRECISE AND PRIMARY LEVELING.

CHERRY CREEK QUADRANGLE.

Precise leveling in 1898 by E. L. McNair.

From Sheridan east along Erie R. R. to Smiths Mills.

Sheridan, in front of Erie station; top of rail_________________ 758.3
Forestville, 530 feet west of entrance to waiting room of Erie station, at northeast corner of iron bridge over highway, in bridge seat, 7 feet north of center of track; bronze tablet stamped "871 D" possibly restamped "1348 D"_________________________ 871.888
Forestville, in front of Erie station; top of rail________________ 875.5
Smiths Mills, in front of Erie station; top of rail_________________ 1,010.7
Smiths Mills, 2.3 miles east of, 10.5 feet north of center of railway track, under west end of overhead highway bridge; bronze tablet in foundation stone stamped "1097 D 1898"_________________________ 1,098.628

Primary leveling in 1898 by E. L. Faison.

From Cassadaga east to Cherry Creek.

Charlotte Center, 1.6 miles east of, 640 feet east of road turning off south, in stone 12 feet north of road, 6 inches above ground; copper bolt stamped "1915 D"_________________________ 1,915.887
Cherry Creek, in west side of north abutment of Main Street iron bridge over Cherry Creek; copper bolt stamped "1309 D"________ 1,310.510
Cherry Creek, 400 feet south of station, northwest corner of abutment of plate-girder bridge over Erie Railroad; cross mark on top_________ 1,298.77

From Cherry Creek northwest via Arkwright to Laona.

Arkwright Center, 0.9 mile east of, 15 feet north of center of road, large stone in place, 2 feet above ground; copper bolt stamped "1570 D"_________________________ 1,571.006

CHILDWOLD QUADRANGLE.

Precise leveling in 1900 by C. H. Semper.

At Kildare.

Kildare, 350 feet north of station, in large boulder 8 feet east of rail; bronze tablet stamped "1528 Albany 1900"_________________________ 1,527.874

Primary leveling in 1902 by A. T. Fowler.

From Horseshoe north along highway to Lake Massawepie, thence southeast to Childwold station.

Lake Massawepie, east side of, in yard of camp owned by Hotel Childwold, 30 feet west of road, east of two houses, in boulder; bronze tablet stamped "1540 Albany"_________________________ 1,540.209

Leveling in 1916 by F. L. Shalibo.

From point near southwest corner of Childwold quadrangle along highways northeast to Sevey, thence east and south to Massawepie.

Shurtleff station, 50 feet southeast of, on south side of track in large boulder; chiseled square marked “t. b. m. 1520.5” ———— 1,520.49

Shurtleff, in face of dam at north end, in 6 by 6 inch timber; copper nail marked “t. b. m. 1514.4” ———— 1,514.46

Shurtleff, 0.2 mile north of station, 40 feet south of road, 300 feet southwest of Shurtleff Hotel, 583 feet northwest of center of dam across Grass River, in rock ledge; bronze tablet stamped “Prim. Trav. Sta. No. 6, 1916, Elev. 1556” ———— 1,555.826

Shurtleff, 1.1 miles northeast of, on southwest side of road, in root of 20-inch beech tree; copper nail marked “t. b. m. 1671.9” ———— 1,671.94

Shurtleff, 1.8 miles northeast of, on northwest side of road, in cement culvert over small stream; chiseled square marked “t. b. m. 1553.3” ———— 1,558.36

Sevey Corners, 600 feet southwest of Sevey Hotel, 50 feet southwest of junction of Potsdam-Tupper Lake road with road to Cranberry Lake, in south end of concrete headwall to small culvert, at southeast corner of road forks; bronze tablet stamped “Prim. Trav. Sta. No. 8, 1916, Elev. 1532” ———— 1,531.834

Sevey Corners, 1 mile east of, on north side of road, in large boulder; chiseled square marked “t. b. m. 1582.8” ———— 1,582.87

Sevey Corners, 2 miles east of, at northwest corner of road forks, in large rock; chiseled square marked “t. b. m. 1617.6” ———— 1,617.63

Childwold, 150 feet southeast of A. F. Cardinal’s residence and post office, 40 feet south of road inside of wire fence, on south side in large boulder; bronze tablet stamped “Prim. Trav. Sta. No. 15, 1916, Elev. 1628” ———— 1,627.883

Childwold, 1.2 miles east of, 30 feet from road on north side, opposite abandoned house, in large boulder; chiseled square marked “t. b. m. 1693.7” ———— 1,693.76

Childwold, 2.2 miles east of, near top of long hill at forks of old wood road, on north side of road, in large boulder; chiseled square marked “t. b. m. 1669.6” ———— 1,669.61

Gale Corners, in center of triangle, in wooden post; copper nail marked “t. b. m. 1526.6” ———— 1,526.65

Gale Corners, 1.1 miles east of, 0.25 mile southeast of Childwold Hotel on north side of road, in root of 10-inch tree; copper nail marked “t. b. m. 1527.2” ———— 1,527.17

Lake Massawepie, east side of, in yard of camp owned by Hotel Childwold, 30 feet west of road, east of two houses, in boulder; tablet stamped “1540” ———— 1,540.209

From Sevey north along highways near west border of quadrangle.

Sevey Corners, in cement culvert at southeast corner of road forks; bronze tablet stamped “P. B. M. 1532” ———— 1,531.834

Sevey Corners, 1.1 miles north of, on east side of road in boulder; chiseled square marked “t. b. m. 1458.2” ———— 1,458.20

Sevey Corners, 1.6 miles north of, 200 feet north of road corners, on east side of road in old stump; copper nail marked “t. b. m. 1456.2” ———— 1,456.18
Sevey Corners, 2 miles north of, on west side of road, in root of tamarack tree; copper nail marked "t. b. m. 1436.8" 1,436.84
Sevey Corners, 2.9 miles north of, on west side of road, in front of H. C. Perry's residence, in large boulder; chiseled square marked "t. b. m. 1413.9" 1,413.98
Sevey Corners, 3.1 miles north of, 1,000 feet north of H. C. Perry's residence, on west side of road, in root of pine tree; copper nail marked "t. b. m. 1447.1" 1,447.10
Sevey Corners, 3.1 miles north of, 1,000 feet north of H. C. Perry's residence, 220 feet west of road in boulder; bronze tablet stamped "t. b. m. 1444" 1,444.305
Sevey Corners, 4 miles north of, on east side of road in root of tree; copper nail marked "t. b. m. 1514.4" 1,514.50
Sevey Corners, 4.4 miles north of, at road forks, in front of Par­meter's Camp, on east side in large rock; chiseled square marked "t. b. m. 1394.2" 1,394.26
Sevey Corners, 5.1 miles north of, on east side of road, in boulder; chiseled square marked "t. b. m. 1384.8" 1,384.33
Sevey Corners, 6.1 miles north of, 600 feet north of William Smith's residence, on east side of road, in large boulder; chiseled square marked "t. b. m. 1348.8" 1,348.84
Hollywood, opposite and 60 feet east of front entrance of Hollywood Inn and post office, on east side of road, in rock; bronze tablet stamped "Prim. Trav. Sta. No. 20, 1916, Elev. 1335" 1,335.283
Hollywood, 0.9 mile north of, on east side of road, in boulder; chis­eled square marked "t. b. m. 1378.0" 1,378.10
Hollywood, 1.9 miles north of, on west side of road, in large boulder; chiseled square marked "t. b. m. 1348.5" 1,348.61
Hollywood, 2.9 miles north of, 300 feet north of A. Sherman Lumber Co. farmhouse, 15 feet from road on east side, in rock; bronze tablet stamped "1400" 1,400.485

CHITTENANGO QUADRANGLE.1

[Latitude 43°-43° 15'; longitude 75° 45'-76°.]

Primary leveling in 1897 by Clark Brown and in 1902 by J. B. Maguire.

From Canastota south via Perryville to Fenner.

Canastota, Peterboro Street Bridge over Erie Canal, east wing of towpath abutment; fourth step (old canal bench mark 52) 433.89
Canastota, 0.5 mile south of New York Central & Hudson River R. R. station; iron bolt in culvert coping (Lehigh Valley R. R. bench mark 118) 457.406
Clockville, 400 feet south of, 15 feet east of track; water-pipe valve case south edge of bell (Lehigh Valley R. R. bench mark 116) 645.79
Cotton, 0.4 mile southwest of station, culvert for farm crossing on north side of track; iron bolt in coping (Lehigh Valley R. R. bench mark 114) 758.016
Perryville, crossroads, new schoolhouse on site of old church, corner to right of front entrance, in stone foundation; tablet stamped "1103 Albany" 1,103.431

1 See Bull. 514, p. 81, for other elevations.

From Constantia east to Cleveland.

Cleveland, opposite station, west end of concrete wall; bronze tablet stamped "416 Albany 1905".-------------------------- 416.504 Feet.

CHURUBUSCO QUADRANGLE.

Latitude 44° 45'-45°; longitude 73° 45'-74°.

Primary leveling in 1913 by A. J. Kavanagh.

Northwest of Lyon Mountain.

Chateaugay, 4.61 miles east of, on old military turnpike at white schoolhouse crossroad, on boulder 30 feet from intersection; chiseled square painted "1118.7".-------------------------- 1,118.71

Primary leveling in 1912 by R. A. Kiger and K. W. Trimble.

From Lyon Mountain along highway north to Ellenburg Center, thence northeast to Ellenburg station, thence south to Ledger Corner, thence west to point 3 miles northeast of Lyon Mountain.

Lyon Mountain, 185 feet west of, 11 feet from center line of railroad, on south wing of east abutment of railroad bridge over brook; aluminum tablet stamped "1753".-------------------------- 1,753.247

Lyon Mountain, 0.8 mile north of, at three corners, on southeast side of, on top of white quartz rock; chiseled square marked "1707.9 B. M.".-------------------------- 1,707.661

Lyon Mountain, 2.2 miles north of, at road fork, 5 feet west of road, on top of stone; chiseled square marked "1664.4 B. M.".-------------------------- 1,664.21

Lyon Mountain, 3.4 miles north of, 1,400 feet south of small stream, 15 feet west of highway, in top of large quartz boulder; bronze tablet stamped "1660".-------------------------- 1,659.752

Lyon Mountain, 5 miles north of, 500 feet north of stream, 12 feet east of highway, on quartz boulder; chiseled square marked "1537.2 B. M.".-------------------------- 1,537.00

Lyon Mountain, 6.1 miles north of, 400 feet northeast of dwelling, 3 feet east of highway, on top of quartz rock; chiseled square marked "1545.8 B. M.".-------------------------- 1,545.52

Ellenburg Center, 4.6 miles south of, 160 feet west of three corners, 20 feet east of highway, in quartz ledge; bronze tablet stamped "1672".-------------------------- 1,671.358

Ellenburg Center, 3.5 miles south of, 480 feet north of dwelling, 15 feet east of highway, on quartz rock; chiseled square marked "1509.8 B. M.".-------------------------- 1,509.55

Ellenburg Center, 2.4 miles south of, in southwest corner of road fork, on sandstone south stone head to culvert; chiseled square marked "1352.7 B. M.".-------------------------- 1,352.43

Ellenburg Center, 1.8 miles south of, at Arnolds Corner, 25 feet northwest of center of road at corner, in quartz rock; bronze tablet stamped "1400".-------------------------- 1,399.774

Ellenburg Center, 0.8 mile south of, in northwest corner of road fork, on top of large quartz boulder; chiseled square marked "1308.2 B. M.".-------------------------- 1,307.98

Ellenburg Center, on south end of east abutment of highway bridge over Chazy River; chiseled square marked "1202.2 B. M.".-------------------------- 1,201.85

Ellenburg Center, 1 mile northeast of, 230 feet east of dwelling 6 feet east of center of highway, in sandstone ledge; bronze tablet stamped "1154".-------------------------- 1,153.327
Ellenburg Corners, on north end of east abutment of highway bridge over Chazy River; chiseled square marked “964.0 B. M.” 963.65

Ellenburg Corners, 1.2 miles northeast of, in southwest corner of crossroads, on large quartz boulder; chiseled square marked “941.0 B. M.” 940.66

Ellenburg, 250 feet west of station, in southwest corner of road fork, at Rutland R. R. under grade crossing, on concrete pavement; chiseled square marked “883.7 B. M.” 883.33

Ellenburg, in second stone from top of northwest corner of foundation of Grange Hall at southeast corner of Main and State streets, 100 feet south of Main Street, 40 feet east of State Street; bronze tablet stamped “838” 837.198

Dannemora siding, top of south rail of main track at grade crossing, marked “870.8” 870.48

Ellenburg, 1.7 miles south of, in northeast corner of crossroads, on quartz boulder; chiseled square marked “888.4 B. M.” 988.01

Ellenburg, 2.8 miles south of, in east end of south abutment of highway bridge over Graves Brook; bronze tablet stamped “1116” 1,115.226

Ellenburg, 4.1 miles south of, 500 feet north of dwelling, 10 feet east of highway, on brown quartz boulder; chiseled square marked “1289.2 B. M.” 1,288.81

Ellenburg, 5.1 miles south of, 200 feet west of dwelling, 10 feet east of highway, on quartz rock; chiseled square marked “1392.2 B. M.” 1,391.76

Ellenburg, 6.2 miles south of, at three corners, 10 feet east of highway, 6 feet south of small stream, in sandstone rock; bronze tablet stamped “1466” 1,465.46

Ellenburg, 7.3 miles south of, 150 feet north of Wallace School, 10 feet west of highway, on large quartz boulder; chiseled square marked “1225.5 B. M.” (probably marked incorrectly) 1,525.13

Ledgers Corner, 2 miles north of, in southeast corner of road fork, in base of corner fence post; nail marked “1467.9 B. M.” 1,467.48

Ledgers Corner, 50 feet northwest of road fork, 70 feet southeast of schoolhouse, in quartz rock; bronze tablet stamped “1601” 1,600.631

Ledgers Corner, 1.1 miles west of, 200 feet south of dwelling, 7 feet south of highway on flat sandstone rock; chiseled square marked “1645.5 B. M.” 1,645.04

Ledgers Corner, 2.1 miles west of, on south end of east abutment of highway bridge over outlet to Chazy Lake; chiseled square marked “1,530.7 B. M.” 1,530.25

Ledgers Corner, 3.6 miles west of, 300 feet east of dwelling 15 feet north of highway, in large white quartz rock; bronze tablet stamped “1575” 1,574.372

Lyon Mountain, 3 miles northeast of, on southeast end of south abutment of concrete culvert, near junction of railroad sections 7 and 9, 12 feet from center of track; aluminum tablet stamped “1715” 1,714.918

From Lyon Mountain along highway north to point north of Star, thence east and southeast near Rutland R. R. to Ellenburg station.

Lyon Mountain, 0.8 mile north of, south edge of ditch, south side of road forks, on white quartz boulder; chiseled square marked “1707” 1,707.66

Lyon Mountain, 1.5 miles north of, 25 feet south of telephone pole 1215, on end of large rock on west side of road; chiseled square marked “1415” 1,415.02
<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Divided Brook, floor of bridge over</td>
<td>1,378.0</td>
</tr>
<tr>
<td>Divided Brook, surface of water; June 18, 1912</td>
<td>1,372.0</td>
</tr>
<tr>
<td>Lyon Mountain, 2.2 miles north of, on south side of bridge over Divided Brook at forks of road to Hutton; top of bolt marked “1357”</td>
<td>1,356.37</td>
</tr>
<tr>
<td>Lyon Mountain, 3.1 miles north of, 10 feet north of center of road, 30 feet west of saloon in building known as Fineburg Block, in granite boulder; bronze tablet stamped “1333”</td>
<td>1,333.066</td>
</tr>
<tr>
<td>Chateaugay Lake, floor of iron bridge over arm of</td>
<td>1,314.0</td>
</tr>
<tr>
<td>Chateaugay Lake, surface of water, June 19, 1912</td>
<td>1,310.0</td>
</tr>
<tr>
<td>Lyon Mountain, 4.1 miles north of, 160 feet north of road forks, 30 feet north of Backus’s store, 50 feet east of Catholic Church, on rock on east edge of road; chiseled square marked “1314.4”</td>
<td>1,314.23</td>
</tr>
<tr>
<td>Lyon Mountain, 5.2 miles north of, 150 feet north of small yellow house, east side of road, on boulder; chiseled square marked “1331”</td>
<td>1,331.25</td>
</tr>
<tr>
<td>Lyon Mountain, 6.3 miles north of, west side of road, 20 feet north of center of road, 15 feet west of telephone pole 1378, 75 feet south of cleared field on west side of road; copper nail in root of double birch tree, marked “1323”</td>
<td>1,322.79</td>
</tr>
<tr>
<td>Lyon Mountain, 6.7 miles north of, 15 feet west of center of road, in yard of house occupied by Ezra Bigor, in boulder; bronze tablet stamped “1327”</td>
<td>1,327.105</td>
</tr>
<tr>
<td>Lyon Mountain, 7.3 miles north of, 30 feet north of forks of road to east, 20 feet east of center of road, 100 feet northwest of one-story red house, in root of 14-inch maple tree; copper nail marked “1317.8”</td>
<td>1,317.63</td>
</tr>
<tr>
<td>Lyon Mountain, 8 miles north of, west side of road, 10 feet from intersection, 3 feet east of clump of five small maple trees, on top of boulder; chiseled square marked “1331.3”</td>
<td>1,331.13</td>
</tr>
<tr>
<td>Lyon Mountain, 9 miles north of, on west side of road, 15 feet from center and 10 feet from fence, on boulder; chiseled square marked “1616”</td>
<td>1,615.66</td>
</tr>
<tr>
<td>Lyon Mountain, 9 miles north of, 5 feet east of center of road, on edge of roadbed, 200 feet north of house occupied by A. E. McPherson, in rock; bronze tablet stamped “1649”</td>
<td>1,649.036</td>
</tr>
<tr>
<td>Lyon Mountain, 10.2 miles north of, west side of road, at forks to right, 10 feet from center of road, 10 feet east of bars in stone fence, on boulder; chiseled square marked “1786.9”</td>
<td>1,786.71</td>
</tr>
<tr>
<td>Lyon Mountain, 11.1 miles north of, west side of road, 75 feet north of 12-inch maple and 80 feet south of 12-inch elm, 25 feet north of small double elm, on rock; chiseled square marked “1778”</td>
<td>1,777.60</td>
</tr>
<tr>
<td>Harrigan Corners, 50 feet north of crossroads, on south side of road leading west, 15 feet south of center of road, on rock; chiseled square marked “1822.1”</td>
<td>1,822.00</td>
</tr>
<tr>
<td>Harrigan Corners, 0.4 mile north of, on east side of road, 20 feet west of southwest corner of J. Tacy’s barn, on rock; chiseled square marked “1739”</td>
<td>1,739.06</td>
</tr>
<tr>
<td>Star Crossroads, north side of road, 300 feet west of intersection, 20 feet north of center of road, 100 feet northeast or northeast corner of Horace Johnson’s house, in top of rock almost covered with earth; bronze tablet stamped “1526”</td>
<td>1,526.266</td>
</tr>
</tbody>
</table>
Star, 1.5 miles north and east of, in southwest corner of road forks, on large rock in ditch; chiseled square marked "1368.9" 1,368.82

Star, 2.8 miles north of, at forks of road to east, 50 feet north of intersection, 15 feet east of center line of north-south road, on flat rock; chiseled square marked "1290.8" 1,290.70

Star, 3.2 miles north of, 15 feet west center line of road, 10 feet south of private road to west, 25 feet west of private road east leading to residence of John Campbell, in sandstone bowlder 2 feet high, 2½ by 2 feet on top; bronze tablet stamped "1262" 1,262.234

Star, 3.8 miles north of, on east side of road, 30 feet east of intersection of road to west, 5 feet northwest of 15-inch maple tree, on boulder; chiseled square marked "1213.1" 1,212.95

Star, 4.9 miles north of, 200 feet south of intersection of old military turnpike, in top of foundation stone of northwest corner of barn of John Fitzgerald; bronze tablet stamped "1183" 1,182.97

Star, 5.9 miles north of, 1,200 feet south of railroad crossing, in north end of west side timber of small bridge; copper nail marked "1125" 1,124.58

Forks of road near railroad crossing; point on boulder 1,321.1

Star, 7 miles north and east of, 120 feet west of Tom Luby's house, on flat rock 2 by 4 feet and about ½ foot high; chiseled square marked "1166" 1,166.24

Churubusco, northeast corner of stone foundation of public school building, 2 feet above ground and 2½ feet south of northeast corner; bronze tablet stamped "1194" 1,193.58

Crossroads, point on rock at 1,177.5

Churubusco, 1.3 miles east of, 10 feet north of center of road, at telephone pole 1154, on flat top rock; chiseled square marked "1142" 1,141.97

Churubusco, 2 miles east of, in center of triangle at intersection of road to right, on flat rock; chiseled square marked "1,109" 1,108.99

Clinton Mills, at railroad crossing; top of rail marked "1093" 1,093

Clinton Mills, 20 feet south of center of road, 65 feet east of Clinton Mills schoolhouse, 130 feet east of road forks at schoolhouse, in low flat rock about level with ground; bronze tablet stamped "1098" 1,097.715

Clinton Mills, 1 mile east of, 10 feet north of center of road, 25 feet north of New York Telephone Co.'s pole B 1060, on flat rock ledge; chiseled square marked "1088" 1,088.22

Clinton Mills, 2 miles east of, 25 feet south of center of road, 40 feet west of telephone pole 1015, on large rock in swamp; chiseled square marked "989" 989.35

Clinton Mills, 2.7 miles east of, 25 feet northeast of intersection in edge of ditch, at crossroads, on rock; chiseled square marked "953" 953.06

Clinton Mills, 3.8 miles east of, in top of flat ledge, 470 feet south of angle of road to south, 10 feet west of center of road; bronze tablet stamped "905" 908.24

Clinton Mills, 4.8 miles east and south of, 8 feet south of sharp angle in road, 15 feet east of center of road, in root of 10-inch beech tree; copper nail marked "880" 879.63

Clinton Mills, 6 miles east and south of, on west side of road, near fence in front of G. Colligan's house, in top of stump; copper nail marked "955" 955.40

104787°—Bull. 671—18—4
Chazy River, bridge over North Branch of____________________ 826.0
North Branch of Chazy River, surface of water, July 4, 1912____ 818.0

**CLAYTON QUADRANGLE.**

[Latitude 44°-44° 15'; longitude 76°-76° 15'.]

Precise leveling in 1900 by C. H. Semper.

At Limerick.

Limerick, stone-arch bridge over Perch River; point on east end of south parapet wall___________________________ 317.09

Primary leveling in 1900 by William Kelley.

From Clayton south via Clayton Center and Depauville to Limerick.

Clayton, southwest corner of Catholic Church, in water table; copper bolt_____________________________________ 278.815
Clayton, James Street, in front of Mrs. Linnell's residence, on back part of top of fire hydrant; copper bolt stamped "Cape Vincent 289"___________________________ 287.631
Clayton Center, residence of Merritt Legenfelter, on west face of building at south corner in stone foundation wall, bronze tablet stamped "Cape Vincent 423"___________________________ 422.071
Depauville, at crossroads in east corner of stone foundation wall under residence of Ira Gillett; aluminum tablet stamped "299 Cape Vincent"___________________________ 297.525
Perch River, stone schoolhouse, in northeast corner of water table; bronze tablet stamped "338 Cape Vincent"___________________________ 336.950

From Limerick northwest via Chaumont to Threemile Bay.

Chaumont, Main Street, in north face of buttress at northwest corner of Hiram Copeley's stone office building; aluminum tablet stamped "295 Cape Vincent"___________________________ 293.425
Threemile Bay, Baptist Church, in southeast corner of foundation wall; aluminum tablet stamped "266 Cape Vincent"___________________________ 264.544

From Threemile Bay north via St. Lawrence to Clayton.

St. Lawrence, 225 feet north of crossroads, on east side of road, on large boulder; bronze tablet stamped "357 Cape Vincent"___________________________ 356.269

From Clayton southeast to Lafaveville.

Clayton, north side of Water Street, in limestone water table on west side 1.85 feet northerly from the southwest corner of the Barker brick building; aluminum tablet stamped "257 Cape Vincent"___________________________ 256.248
Clayton, 1.9 miles from, north end of west abutment of iron bridge on New York Central R. R., northeast corner of top step; chiselled mark___________________________ 325.49

From Limerick south to Dexter.

Dexter, brick schoolhouse, 2 feet easterly from northwest corner of main building, in limestone water table on north side; aluminum tablet stamped "328 Cape Vincent"___________________________ 324.395

1 See Bull. 514, p. 64, for other elevations.
PRECISE AND PRIMARY LEVELING.

CLOVE QUADRANGLE.
[Latitude 41° 30'-41° 45'; longitude 73° 30'-73° 45'.]
Primary leveling in 1899 by Seth Van Loan.

At Dover Plains.
Dover Plains, in northwest corner of bank; aluminum (?) tablet stamped "Albany 406" ------------------------------------------ 406.866

CLYDE QUADRANGLE.¹
[Latitude 43°-43° 15'; longitude 76° 45'-77°.]

At Clyde (set from State bench marks).
Clyde, Methodist Episcopal Church, on northeast side of Sodus Street, in north end of foundation of front wall; aluminum tablet stamped "406 Oswego"----------------------------------------------- 405.196

From Wallington east along highway and railroad to Red Creek.
Alton, highway crossing; top of rail----------------------------------------------- 402.8
Dunbar, road crossing; top of north rail------------------------------------------ 393.7
North Rose, in front of station; top of rail-------------------------------------- 387.80
Wolcott, Main Street highway crossing; top of north rail----------------------- 361.7
Wolcott, northwest corner of Main and Clyde streets, in masonry foundation southeast corner of Baptist Church; aluminum tablet stamped "378 Oswego"----------------------------------------------- 379.026

From Wolcott south along highway to Mays Point.
South Butler, in northwest corner of schoolhouse on road east from hotel; bronze tablet stamped "399 Oswego 1899"------------------------- 399.717
Savannah, northeast corner Main and East Church streets; top of concrete monument---------------------------------------------------------- 420.20
Savannah, 4.8 miles south of, Barry Bridge 1, western division, in top of first step of west wing of north abutment; top of copper bolt stamped "B. M. 2"----------------------------------------------- 395.16

From North Rose southwest along highway to Lyons.
Wayne Center, in southeast corner of schoolhouse on crossroads; bronze tablet stamped "438 Oswego 1899"--------------------------- 438.942
Lyons, on west side of Broad Street, between Church and Pearl streets, in Dutch Reformed church; bronze tablet stamped "Oswego 438 1899"----------------------------------------------- 438.395
Lyons, Water Street highway bridge over canal, east wing of towpath abutment; chiseled square----------------------------------------------- 407.727

CLYMER QUADRANGLE.
[Latitude 42°-42° 15'; longitude 79° 30'-79° 45'.]
Primary leveling in 1902 by G. M. Dimmick.

From Clymer north along Western New York & Pennsylvania Ry. to Mayville.
Clymer, in front of station; top of east rail-------------------------- 1,472.1
North Clymer, east end of foundation wall of Methodist Episcopal Church, south face; bronze tablet stamped "1582 Dunkirk 1902"----------------- 1,582.091

¹ See Bull. 514, pp. 91-92, for other elevations.
Panama (North Clymer), in front of station; top of east rail... 1,562.0
Sherman, in front of station; top of north rail... 1,581.5
Summerdale, at highway crossing; top of east rail... 1,638.7
Mayville, in front of station; top of east rail... 1,314.2
Mayville, Chautauqua Lake; water surface... 1,310

From Sherman station west to Sherman (single-spur line).
Sherman, 0.72 mile west of station, highway bridge over Finch Creek, west end of north abutment; bronze tablet stamped "1538 Dunkirk 1902"... 1,538.226

From Clymer west along highway to Marvin, thence north to point 9 miles north of Findley Lake, thence indirectly eastward to point 3 miles west of Mayville.
Clymer, 1.3 miles west of station, west end of foundation wall of Baptist Church, front face; bronze tablet stamped "1468 Dunkirk 1902"... 1,468.349
Marvin, 0.6 mile north of, highway bridge over Finch Creek, top of north end of west abutment; bronze tablet stamped "1388 Dunkirk 1902"... 1,387.907
Findley Lake, Aug. 9, 1903; water surface... 1,421
Findley Lake, west corner of foundation wall of Methodist Church, in front face; aluminum tablet stamped "1429 Dunkirk 1902"... 1,428.655

COHOES QUADRANGLE.
[Latitude 42° 45'-43°; longitude 73° 30'-73° 45'.]
Precise leveling in 1898 by E. L. McNair.

On Erie Canal near Cohoes.
Cohoes, 3.5 miles west of, east end of lower Mohawk Aqueduct, southwest corner of parapet wall; chiseled cross enclosed by circle... 194.608
Cohoes, on top of wall west side of mill race between locks 45 and 16, 6 inches from northeast corner of small brick building between mill race and towpath; chiseled cross... 159.404
Cohoes, lock 15, on east wall, south end of west lock; cross cut on second foot-iron clamp (U. S. Engineer Corps bench mark)... 159.890
Cohoes, lock 15, southwest corner of east wall of west lock; top of point of coping... 159.810

GOLDEN QUADRANGLE.
[Latitude 42° 30'-42° 45'; longitude 78° 30'-78° 45'.]
Primary leveling in 1904 by I. W. Pettit.

From Boston Center south to Boston.
Boston Center (Patchin), opposite Michael Flickgenar's grocery, on large boulder; bronze tablet stamped "903 Albany 1903 Adj"... 903.048
Boston, 135 feet north of Iroquois Hotel, in grass plat at intersection of roads; iron post stamped "941 Albany"... 940.964
PRECISE AND PRIMARY LEVELING.

COOPERSTOWN QUADRANGLE. 1

[Latitude 42° 30'–42° 45'; longitude 74° 45'–75°.]

Precise leveling in 1898 by E. L. McNair.

From Maryland northeast along Delaware & Hudson R. R. to Worcester.

Maryland, 1.9 miles west of, southeast corner of bridge 51 across Schenevus Creek, in parapet wall; bronze tablet stamped "1170 A" 1,169.850
Maryland, in front of Delaware & Hudson station; top of north rail 1,213.4
Schenevus, in front of Delaware & Hudson station; top of south rail 1,276.3
Schenevus, 0.25 mile east of Delaware & Hudson station, southeast corner of bridge across Schenevus Creek, in coping stone of abutment; bronze tablet stamped "1272 A" 1,271.387
Worcester, 80 feet west of west end of Delaware & Hudson station, foundation of railroad water tank, third course of stone, east side of tank; aluminum tablet stamped "1131 A" 1,310.160

Primary leveling in 1899 by A. W. Gill and W. W. Gilbert.

From Springfield Center south to Cooperstown.

Cooperstown, northwest corner of county courthouse; aluminum tablet stamped "1264 Albany" 1,264.480
Cooperstown, opposite Cooperstown & Charlotte Valley R. R. station; top of rail, main track 1,283.0

From Colliersville along the Delaware & Hudson R. R. to Cooperstown.

Milford, Methodist Church, northeast corner of foundation; aluminum tablet stamped "1207 Albany" 1,207.200
Hartwick, Seminary building, in foundation, east side; aluminum tablet stamped "1266 Albany" 1,266.390
Hartwick Seminary, 1.4 miles north of, iron bridge over river, on capstone at northeast corner; chisel mark 1,179.37

COPAKE QUADRANGLE.

[Latitude 42°–42° 15'; longitude 73° 30'–73° 45'.]

Primary leveling in 1900 by George Bailey and in 1902 by G. C. Mills.

From Millerton north along New York Central & Hudson River R. R. to Philmont.

Mount Riga station, 1.5 miles north of, stream to west; northwest corner of culvert (stream 3 feet lower) 773.43
Boston Corners, 300 feet south of station, in top of southeast corner of culvert on New York Central R. R.; bronze tablet stamped "Albany 727" 727.139
Copake Ironworks, 500 feet south of station; northwest abutment of railroad bridge (stream 25 feet below) 674.33
Craryville, 500 feet west of station, south side of track, in west abutment of railroad bridge; bronze tablet stamped "Albany 635" 635.151
Martindale station, just north of, at crossing; west rail 639.5

1 See Bull. 514, p. 33, for other elevations.

From Boston Corners westward via Central New England Ry. to Gallatinville, thence north along highways via Glencoe Mills to Claverack, thence northeast to Philmont.

Boston Corners, 800 feet south of station, in top of southeast corner of culvert on New York Central R. R., bronze tablet stamped "Albany 727". 727.139

Copake, Central New England bridge 80, on north end of west abutment; chiseled square. 537.69

Copake, 2.5 miles southwest of, bridge 85, 900 feet southeast of highway and 0.5 mile southeast of Millers Pond, in east corner of southwest abutment; bronze tablet stamped "Albany 508". 508.350

Ancram, stone-arch highway bridge over Roeliff Janson Kill, on south end of west parapet; chiseled square. 480.76

Gallatinville, highway bridge over Roeliff Janson Kill, east wing of north abutment; aluminum tablet stamped "405 Albany". 405.192

New Forge, on south end of west abutment of iron bridge over Claverack Creek; bronze tablet stamped "516 Albany". 515.995

West Taghkanick, 0.9 mile north of, 600 feet south of George Sears's dwelling; 1-inch steel bar 15 inches long sunk flush in rock ledge on west side of road, marked "U. S. B. M. 289". 289.61

Glencoe Mills, iron highway bridge over Taghkanick Creek, in west wing wall of south abutment; aluminum tablet stamped "261 Albany". 261.703

Claverack, 0.5 mile southeast of, iron highway bridge, center pier, east end; bronze tablet stamped "156 Albany". 155.841

CORNING QUADRANGLE.

[Latitude 42°–42° 15′; longitude 77°–77° 15′.]

Precise leveling in 1898 by E. L. McNair.

From Addison east along Erie R. R. to East Corning.

Addison, in front of Erie station; top of north rail, westbound track. 985.5

Addison, 0.4 mile east of Erie station and 750 feet northwest of tracks, Union school building, at right of main entrance; aluminum tablet stamped "1021 D". 1,022.554

Erwins, in front of station; top of rail, eastbound track. 965.2

Painted Post, 0.8 mile west of, in masonry wall of open culvert, east wall of culvert and south side of railroad track; bronze tablet stamped "935 D". 936.195

Painted Post, in front of Erie station, eastbound track; top of south rail. 938.4

Corning, in front of station; top of rail. 936.3

Corning, city hall, corner of Erie and Cedar streets, foundation stone under water table at right of Cedar Street entrance; aluminum tablet stamped "935 D". 936.759

East Corning, in front of station; top of south rail. 909.3


From Savona southeast along Erie R. R. to Painted Post.

Savona, in south end abutment of highway bridge over Cohocton River; tablet stamped "1050 Oswego 1899". 1,050.708

Savona, 0.4 mile south of; chisel mark on east end of pier. 1,045.0
Savona, 1.8 miles south of; top of boulder on east side of track, 1,200 feet north of crossing 1,036.62
Campbell, 700 feet north of station, on east end of bridge seat, south wall of railroad girder bridge; chisel mark 1,007.22
Coopers Plains, at station; top of rail 963.11
Coopers Plains, 1 mile south of, on east end of bridge seat, on south wall; chisel mark 950.81
Painted Post, 2 miles north of, crossing of Delaware, Lackawanna & Western and Erie railroads; top of rail 949.15
Painted Post, 1 mile north of, on west end of parapet wall of north abutment; chisel mark 942.88

From point 1 mile north of Coopers Plains northeast along highway toward Monterey.

Coopers Plains, 1 mile north of, on southwest corner of iron bridge; on cross marked on anchor bolt 980.58
East Campbell; crossroads 1,032.0
East Campbell, 600 feet east of; top of boulder 1,026.44

From Lawrenceville, Pa., north along New York Central & Hudson River R. R. to Corning, N. Y.

Lawrenceville, Pa., on top of stone at south end of east abutment of highway bridge over Tioga River, near station 993.43
Lindley, 0.8 mile south of, on corner of stone on east side of north abutment of small bridge, 140 feet south of milepost 99-92 986.94
Lindley, 0.2 mile north of, nearly opposite milepost 101-70; in telephone pole, nail 981.89
Lindley, 1.2 miles north of, on west side of south abutment of iron bridge at milepost 102-69; on top of bridge seat stone 980.640
Lindley, 2.2 miles north of, at west end of south abutment of small bridge, 840 feet south of milepost 103-68; top of coping stone 972.99
Presho, 0.8 mile south of, east end of south abutment of steel bridge, 630 feet south of milepost 104-67; top of stone 963.77
Presho, on west side of south abutment of double-track steel bridge, 700 feet south of station; top of bridge seat stone 962.40
Presho, 1.2 miles north of, west end of north abutment of small bridge 953.71
Mulholland, 620 feet south of highway crossing near station platform, on east side of south abutment of small bridge; top of third stone step 955.78
Corning, 4 miles southwest of, 30 feet north of milepost 109-62, 10 feet west of track; railroad spike in stump 945.80
Corning, 2.5 miles west of, on south side of west abutment of small bridge, 400 feet west of yard limit sign; top of stone 935.11
Corning, on right side of Cedar Street entrance to city hall; aluminum tablet stamped "935 D 1898" 936.759

From point 1 mile south of Coopers Plains along highway north to East Campbell, thence northeast to Hornby, thence south to Painted Post, thence northwest to beginning.

Coopers Plains, in northwest corner of road fork; copper nail in south end of boardwalk, marked "965.4 B. M." 965.44
Coopers Plains, 0.9 mile north of, at three corners; chiseled square on west stonehead to highway culvert, marked "980.1 B. M." 980.14
Coopers Plains, 2.3 miles north of, in top of east concrete head to highway culvert over small stream; bronze tablet stamped "1008" 1,008.504 Feet.

East Campbell, in northeast corner of road fork; nail in base of corner fence post, marked "1032.6 B. M." 1,032.67

East Campbell, 0.8 mile northeast of, in northeast corner of road fork; chiseled square on top of limestone rock, marked "1094.2 B. M." 1,094.24

East Campbell, 2.4 miles northeast of, 700 feet east of three corners, in top of north end of west abutment to highway bridge over Mead Creek; bronze tablet stamped "1197" 1,197.107

Hornby, 2.6 miles west of, in northwest corner of road fork, 50 feet east of schoolhouse; chiseled square in top of highway guard stone, marked "1270.2 B. M." 1,270.25

Hornby, 1 mile west of, 480 feet east of dwelling, 10 feet south of highway; nail in root of maple tree, marked "1494.5 B. M." 1,494.56

Hornby, southwest corner of foundation of town hall, in west face; bronze tablet stamped "1516" 1,515.643

Hornby, 0.9 mile south of, at three corners, 15 feet west of highway; nail in root of maple tree, marked "1773.3 B. M." 1,773.41

Hornby, 2.1 miles south of, in northwest corner of road fork; nail in base of mailbox post, marked "1626.6 B. M." 1,626.74

Hornby, 3.3 miles south of, at deep rock cut on west side of highway, west of highway, in limestone ledge; bronze tablet stamped "1381.3" 1,381.042

Painted Post, 3 miles northeast of, in northeast corner of road fork; nail in base of telephone pole, marked "1172.7 B. M." 1,172.88

Painted Post, 2.6 miles northeast of, 20 feet west of three corners; nail in top of maple stump, marked "1097.8 B. M." 1,097.96

Painted Post, 1.1 miles east of, in northwest corner of road fork; nail in base of signpost, marked "988.6 B. M." 988.76

Painted Post, Delaware, Lackawanna & Western R. R. grade crossing; top of north rail of north track, marked "947" 947.16

Coopers Plains, 1 mile southeast of; on east end of bridge seat, southwest wall; chiseled mark 950.81

From Addison north along highway to Campbell, thence southeast to Coopers Plains.

Addison, 1.8 miles north of, on road to Campbell, in top of concrete carriage step of Mrs. Mary Audinwood's home; chiseled square 1,312.30

Addison, 1.8 miles north of, on road to Campbell, in top of concrete carriage step of Mrs. Mary Audinwood's home; bronze tablet 1,312.299

Addison, 2.7 miles north of, along road to Campbell, on bridge over Goodhue Brook, on top of west girder, most northeasterly bolt 1,252.32

Phillips School, 1.5 miles northeast of, along road to Campbell, in railroad rail in southwest corner of culvert; chiseled cross 1,615.22

Campbell, 4 miles southwest of, along road to Addison, copper nail in root of old tree stump on west side of road 1,585.06

Campbell, 4 miles southwest of, along road to Addison, in stone step before A. T. Lewis's home; bronze tablet stamped "1562" 1,561.757

Campbell, 1 mile southwest of, along State road toward Thurston, 300 feet east of road forks; north side of road; chiseled square on concrete culvert 1,069.55

Campbell, 300 feet west of Erie Railroad station, in northwest corner of concrete abutment of highway bridge; bronze tablet 1,010.426
From Corning south along highway to point near Caton, thence west to point 1.4 miles north of Lindley.

Corning, at corner of Erie and Cedar streets, in foundation stone under water table, at right of Cedar Street entrance; aluminum tablet stamped "935"  

Corning, 0.9 mile southeast of, 6 feet south of south wall of small cemetery, on street curb at base of telephone pole; chiseled square marked "921.2 B. M."  

Corning, 1.9 miles southeast of, at Brown's Crossing, on west end of north concrete abutment to undergrade bridge; chiseled square marked "911.9 B. M."  

Brown's Crossing, 1.2 miles south of, 60 feet south of dwelling, 10 feet south of State highway, in base of maple stump; nail marked "971.8 B. M."  

Brown's Crossing, 2.4 miles south of, 70 feet north of junction of west Caton road and State highway, 7 feet east of State highway, in concrete culvert head; bronze tablet stamped "1098"  

Caton, 1.9 miles north of, on east concrete head to culvert under State highway; chiseled square marked "1277.5 B. M."  

Caton, 0.8 mile north of, 7 feet east of State highway, on east concrete culvert head; chiseled square marked "1390.5 B. M."  

Caton, northeast corner of concrete floor to State highway bridge over small stream; bronze tablet stamped "1411"  

Caton, 1.1 miles west of, at three corners, in base of mail-box post; nail marked "1757.7 B. M."  

Caton, 2.1 miles west of, at three corners, in top of center post of guard fence; nail marked "1536.6 B. M."  

Caton, 2.8 miles west of, 280 feet east of three corners, in south end of east abutment to highway bridge over small stream; bronze tablet stamped "1313"  

Lindley, 2.9 miles northeast of, at three corners, in southwest corner of foundation to church, in west face; chiseled cross marked "1277.8 B. M."  

Lindley, 1.2 miles north of, at Black's Store, in southeast corner of road fork, in base of telephone pole; nail marked "987.4 B. M."  

From point 1.4 miles north of Lindley south to Lindley, thence west to point 4.2 miles south of Freeman (single-spur line).

Lindley, in south end of west abutment to highway bridge over Tioga River; bronze tablet stamped "988"  

Lindley, 0.9 mile west of, on west end of south concrete guard wall to highway bridge over stream; chiseled square marked "1089. B. M."  

Lindley, 2.2 miles west of, 150 feet south of dwelling, 7 feet south of highway, in root of oak tree; nail marked "1426 B. M."  

Lindley, 3.2 miles west of, at three corners, center of triangle formed by junction of roads, in limestone rock; bronze tablet stamped "1642"  

Liberty Pole School, 1.1 miles east of, at right-angle bend in highway, 12 feet south of highway, in root of chestnut tree; nail marked "1709.5 B. M."  

Liberty Pole School, in northeast corner of crossroads, in top of stump 1 foot above ground; nail marked "1797.1 B. M."

Liberty Pole School, 1.5 miles west of, northeast corner of foundation to Nichols School, in east face; bronze tablet stamped "1706". 1,705.561

Leveling in 1916 by K. E. Schlachter.

From west border of quadrangle east to point near Campbell.

Thurston, 1.5 miles east of, in east end of south guard rail of bridge over Michigan Creek; chiseled circle painted "t. b. m. 1133.9". 1,133.0

Campbell, 1 mile west of, along State road to Thurston, 300 feet east of road corner, in north side of concrete culvert; chiseled square painted "t. b. m. 1070". 1,069.55

CORTLAND QUADRANGLE.

[Latitude 42° 30'–42° 45'; longitude 70°–76° 15']

Primary leveling in 1900 by W. E. Green.

From Messengerville northwest along the Delaware, Lackawanna & Western R. R. to Cortland.

Blodgett Mills, at road crossing near station; top of rail. 1,082.9

Blodgett Mills, 1,000 feet north of station, on west side of track, in retaining wall; bronze tablet stamped "1086 Albany". 1,086.336

From Messengerville west along highway to Virgil (single-spur line).

Virgil, northeast corner stone of Methodist Episcopal Church; bronze tablet stamped "1421 Albany". 1,421.249

From Cortland southeast along the Erie and New York Central railroads to Solon.

McGrawville, South Street crossing; top of rail. 1,150.2

Maybury, switch at flag station; top of rail. 1,247.7

Solon, crossing at milk station; top of rail. 1,311.4

Solon, in northwest corner wall of William Corcoran's house; bronze tablet stamped "1308 Albany". 1,308.00

From Cortland northeast along the Lehigh Valley R. R. to Truxton.

Lorings (flag station), at road crossing; top of rail. 1,105.9

East River (flag station), at road crossing; top of rail. 1,132.8

East Homer, in front of station; top of rail. 1,132.3

East Homer, waiting room at station; doorsill. 1,134.29

Truxton, waiting room of station; doorsill. 1,156.78

Truxton, in front of station; top of rail. 1,154.7

Truxton, corner of Methodist Episcopal Church; bronze tablet stamped "1159 Albany". 1,159.096

From Ithaca Junction north along the Delaware, Lackawanna & Western R. R. to Tully.

Cortland, waiting room at station; doorsill. 1,114.22

Cortland, State Normal School building, north side of east entrance; aluminum tablet stamped "1122 Albany". 1,121.855

Homer, James Street crossing; top of rail. 1,132.9

Homer, waiting room at station; doorsill. 1,132.82

Little York, at road crossing; top of rail. 1,162.0
PKECISE AND PRIMARY LEVELING. 59

Feet.

Preble, at road crossing; top of rail___________________ 1,188.3

Preble, Presbyterian Church, in southeast corner of wall; bronze
tablet stamped "1212 Albany"_________________________ 1,212.554

From Cortland along the Lehigh Valley R. R. to McLean.

Cortland, Lehigh Valley station; waiting-room doorslll________ 1,130.32

McLean, E. G. Galloup's store, on east side of wall; chiseled cross___ 1,119.74

COXSACKIE QUADRANGLE.

[Latitude 42° 15'-42° 80'; longitude 73° 45'-74 e.]

Precise leveling by the Coast and Geodetic Survey.

At Hudson station.

Hudson station; United States Coast and Geodetic Survey bench
mark 4 (railroad bench, roundheaded bolt, In west side of top of
stone pier under iron column, under overhead bridge In street
leading to docks and Athens Ferry; the first one north of Hudson
station. The pier is under the second column from south end in the
east row of three)___________________________ 10.686

CRANBERRY LAKE QUADRANGLE.

[Latitude 44°-44° 15'; longitude 74° 45'-75°.]

Leveling in 1914 by K. E. Schlichter.

From point north of Newton Falls south along log railroad to Benson mines.

Newton Falls, 2.6 miles north of, on west margin of track, in large
granite boulder; bronze tablet stamped "1458"________________ 1,457.685

Newton Falls, 1.5 miles north of, along log railroad, on rock on west
margin of track; chiseled circle_____________________ 1,442.85

Newton Falls station, 23 feet south of southeast corner of, in
boulder; bronze tablet stamped "Prim. Trav. Sta. No: 3, 1913,
1383"____________________________________ 1,383.124

Newton Falls, 1.3 miles south of, 609 feet north of road crossing on
west side of concrete culvert; chiseled square;________________ 1,438.27

Leveling in 1916 by F. L. Shalibo.

From Benson Mines southeast along highways to Wanakena, thence southwest
and southeast along track to Gull Lake, thence east to Nehasane.

Benson Mines, 188 feet northeast of station, in concrete base of
water tower; bronze tablet stamped "1406"________________ 1,405.925

Benson Mines, 1 mile southeast of, on Wanakena Highway on west
side, 15 feet from road, on large boulder; chiseled square marked
"t. b. m. 1404.9"________________________________ 1,409.85

Benson Mines, 2 miles southeast of, on Wanakena Highway, on east
side of road, on large boulder; chiseled square marked "t. b.
m. 1515"____________________________________ 1,514.66

Benson Mines, 3 miles southeast of, on Wanakena Highway, on east
side of road, in ledge of rock; bronze tablet stamped "1676"______ 1,676.368

Benson Mines, 4 miles southeast of, on Wanakena Highway, in center
of road forks, on boulder; chiseled square marked "t. b. m.
1695"______________________________________ 1,695.16

1 See Bull. 514, pp. 46-47, for other elevations.
Benson Mines, 4.9 miles southeast of, on Wanakena Highway, in
ledge of rock, on west side of road; chiseled square marked
 Feet.
* " t. b. m. 1633 " ........................................ 1,633.32
Benson Mines, 6.2 miles southeast of, on Wanakena Highway, on east
side of road, in cement culvert, opposite abandoned camp; chis­
eled square marked " t. b. m. 1529 " ........................................ 1,528.93
Wanakena, about 50 feet northwest of station, in front of post office
and residence of J. O. Hornele, on Front Street, 35 feet from road
forks, in large boulder; bronze tablet stamped " Prim. Trav. Sta.
No. 1, 1916, Elev. 1495 " ........................................ 1,494.866
Wanakena, 1.1 miles south of, on east side of old railroad bed, at
junction of trail leading to High Falls, on large boulder; chiseled
square marked " t. b. m. 1533 " ........................................ 1,532.89
Wanakena, 2.1 miles south of, on west side of High Falls trail, in
root of large tree; copper nail marked " t. b. m. 1862 " .................. 1,862.45
Wanakena, 3.1 miles south of, on east side of High Falls trail, on
large boulder; bronze tablet stamped " P. B. M. 1901 " ............. 1,900.634
Wanakena, 3.7 miles south of, on west side of High Falls trail in
large stump; copper nail marked " t. b. m. 1690 " .................. 1,690.24
Wanakena, 4.8 miles south of, on west side of High Falls trail, in
root of 8-inch pine tree; copper nail marked " t. b. m. 1615 " ........ 1,615.25
High Falls, 10 feet west of northwest corner of kitchen and dining
room of the Postern Lodge, 35 feet northeast of the northeast cor­
er of main building, in top of large granite boulder; bronze tablet
stamped " Prim. Trav. Sta. No. 9, 1916, Elev. 1618 " .............. 1,617.990
High Falls, 1 mile south of, on east side of Gull Lake trail, in large
boulder; chiseled square marked " t. b. m. 1721 " .................. 1,720.89
High Falls, 1.9 miles south of, on Gull Lake trail, 600 feet south of
creek, on east side of trail, on boulder; chiseled square marked
" t. b. m. 1766 " ........................................ 1,765.53
Gull Pond, about 500 feet north of north end of, 580 feet along trail
from crossing of the outlet, on east side of Gull Lake trail, in large
granite boulder; bronze tablet stamped " Prim. Trav. Sta. No. 10,
1916, Elev. 1882 " ........................................ 1,881.695
Gull Pond, surface of water, June 5, 1916 ................................ 1,850.7
High Falls, 3.7 miles south of, on Gull Lake trail, in center of trail,
on large boulder; chiseled square marked " t. b. m. 2047 " .............. 2,046.76
High Falls, 4.4 miles south of, at forks of old Albany road and Gull
Lake trail, in 16-inch birch tree; copper nail marked " t. b. m.
1895 " ........................................ 1,835.46
Gull Lake, south end of, on land of the Webb estate, 15 feet south of
the southeast corner of porch to George W. Muir's residence, in
ledge of rock; bronze tablet stamped " Prim. Trav. Sta. No. 11,
1916, Elev. 2038 " ........................................ 2,038.479
Gull Lake, 1 mile east of, 900 feet east of bridge over Deer Creek
outlet, on north side of road in root of 18-inch maple tree; copper
nail marked " t. b. m. 1853 " ........................................ 1,852.57
Gull Lake, 1.9 miles east of, in root of 8-inch pine tree on south side
of road; copper nail marked " t. b. m. 1799 " .................. 1,798.83
Gull Lake, 3.4 miles east of, 300 feet west of point where road
strikes Partloe Lake shore at foot of small hill, and 800 feet west
of point where wagon road crosses old railroad bed, 30 feet south
of Gull Lake-Nehasane road, in bedrock; bronze tablet stamped
Gull Lake, 4.3 miles east of, on private highway on east side of road in large boulder; chiseled square marked "t. b. m. 1896" 1,886.43
Gull Lake, 5.3 miles east of, 15 feet from road on south side, in large boulder; chiseled square marked "t. b. m. 1910" 1,910.45
Gull Lake, 6.5 miles east of, at M. & M. Railroad crossing on north side of road, 25 feet from track in large boulder; chiseled square marked "t. b. m. 1807" 1,807.16
Nehasane, 200 feet west of Mr. Ames's house (Nehasane station), 20 feet northwest of main track in east face of ledge of rock; aluminum tablet stamped "Prim. Trav. Sta. No. 14, 1916, 1789 Albany" (Bull. 281, p. 40) 1,787.53

From Newton Falls along highway northeast to Cooks Corners, thence southeast and northeast via Cranberry Lake to point near northeast corner of quadrangle.

Newton Falls station, 20 feet east of northeast corner of, in large boulder; tablet stamped "1933" 1,383.124
Newton Falls, in center of town, 100 feet in front of Newton Falls Hotel, in boulder; chiseled square marked "t. b. m. 1478.9" 1,478.95
Newton Falls, 1 mile east of, 60 feet south of stream crossing on south side of road, in large boulder; chiseled square marked "t. b. m. 1423.9" 1,423.94

Newton Falls, 1.6 miles east of, at northeast corner of bridge over Cranberry Lake outlet, in stone abutment; chiseled square marked "t. b. m. 1422.5" 1,422.50
Newton Falls, 2.7 miles east of, 20 feet from road on north side, in root of 24-inch stump; copper nail marked "t. b. m. 1431.4" 1,431.36
Newton Falls, 3.5 miles east of, in old road leading to river, in root; copper nail marked "t. b. m. 1429.1" 1,429.09
Newton Falls, 4.5 miles east of, on south side of road, in large boulder; bronze tablet stamped "1433" 1,433.35
Newton Falls, 5.4 miles east of, on south side of road, at forks of road leading to J. Shanon lumber camp, in large rock; chiseled square marked "t. b. m. 1439.7" 1,439.73

Cooks Corners, at southeast corner of cement porch to Cook's Hotel; bronze tablet stamped "Prim. Trav. Sta. No. 2, 1916, 1481." 1,480.51
Newton Falls, 6.9 miles east of, 1,400 feet east of Cooks Corners, at road forks, in wooden post; copper nail marked "t. b. m. 1454.8" 1,454.82
Newton Falls, 7.6 miles east of, 900 feet southwest of old dam, on north side of road, in large boulder; chiseled square marked "t. b. m. 1445.3" 1,445.32
Newton Falls, 8.7 miles east of, at foot of hill and bend of road, in root of 30-inch beech tree; copper nail marked "t. b. m. 1465.6" 1,465.66
Cranberry Lake, at northeast corner of bridge over Cranberry Lake outlet, near dam; chiseled square marked "t. b. m. 1472.4" 1,472.43
Cranberry Lake, at top of north end of dam at outlet, on wall; chiseled square marked "t. b. m. 1488.5" 1,488.55
Cranberry Lake, 300 feet west of dam at foot of, at T road south across river, 550 feet southwest of Windsor Hotel, in old cement engine foundation of the Bissell Bros.' sawmill, Cranberry Lake, west base, 10 feet from lake bank and 89 feet east of old burner site; bronze tablet stamped "Prim. Trav. Sta. No. 3, 1916, Elev. 1492" 1,491.53

Cranberry Lake, at railroad crossing by station; top of rail marked Feet.
"t. b. m. 1488.3"-------------------------------------------------------- 1,488.36

Cranberry Lake, 70 feet south of center of porch of the White Birches,
at east end of village in round cement block, Cranberry Lake, 10 feet
west of gate, east base; bronze tablet stamped "Prim. Trav. Sta.
No. 4, 1916, Elev. 1502."
------------------------------------------------------------------------ 1,502.481

Cranberry Lake, 0.9 mile east of, 800 feet east of Y on south side of
railroad, in large rock; chiseled square marked "t. b. m. 1,503.0"--- 1,503.04

Lines station, 60 feet east of, 500 feet west of trail, on south side of
track, in boulder; chiseled square marked "t. b. m. 1440.5"------ 1,440.54

DAMASCUS QUADRANGLE.

[Latitude 41° 30'-41° 45'; longitude 75°-75° 15'.]

Precise leveling in 1900 by C. H. Semper.

From Cochecton south along Erie R. R. to Tusten.

Cochecton, 100 feet north of station, railroad bridge over highway,
top of north abutment, east side; bronze tablet stamped "746
Albany 1900"
------------------------------------------------------------------------ 746.777

Cochecton, in front of station, northbound track; top of rail------- 749.0

Narrowsburg, in front of station, northbound track; top of rail----- 715.6

Narrowsburg, 600 feet west of station, 100 feet west of east end of
rock cut, north side; bronze tablet stamped "718 Albany 1900"
------------------------------------------------------------------------ 718.717

Tusten, in front of station, northbound track; top of rail----------- 684.8

DANNEMORA QUADRANGLE.

[Latitude 44° 30'-44° 45'; longitude 73°-73° 45'.]

Leveling by J. M. Perkins in 1911.

From Saranac south along highway to Disco.

Saranac, 0.7 mile southeast of, 300 feet east of red schoolhouse, at
road corner; point on stone, marked "761.3"
------------------------------------------------------------------------ 760.09

Saranac, 1.9 miles south of, at road corner; square cut in stone,
marked "974.1"
------------------------------------------------------------------------ 972.95

Saranac, 2.8 miles south of, at district 1 school, in stone 30 feet
from school and 20 feet from road; aluminum tablet stamped
"1203"
------------------------------------------------------------------------ 1,202.097

Redford, about 2.5 miles east of, 50 feet north of road corner, on
road to Peasleeville and Saranac; drill hole in top of rock, marked
"1463.0"
------------------------------------------------------------------------ 1,461.76

Disco, on stone 100 feet west of road corner and opposite butter fac-
tory; aluminum tablet stamped "1158"
------------------------------------------------------------------------ 1,157.086

Disco, in front of red schoolhouse, 1,200 feet north of post office,
square cut in top of stone, marked "1218.7"
------------------------------------------------------------------------ 1,217.61

Disco, 1 mile south of post office, at road corner, in rock opposite
house; bronze tablet stamped "1132"
------------------------------------------------------------------------ 1,130.918

From Russia station along Delaware & Hudson R. R. northeast to Dannemora,
thence southeast to point 3 miles east of Morrisonville, thence along highway
south to Lapham, thence along Delaware & Hudson R. R. southwest to Hark-
ness, thence along highway west, north, and west to Redford.

Russia station, 110 feet east of, 11 feet from center of main track, in
top of concrete culvert; aluminum tablet stamped "1480"
------------------------------------------------------------------------ 1,488.587
Dannemora, 2.3 miles west of, 10 feet from center of track, 15 feet from center of highway near crossing, in top of culvert; bronze tablet stamped "1351" ---------------------------------- 1,350.408
Dannemora, 0.6 mile east of, 150 feet west of railroad milepost marked "P. 19"; top of concrete culvert marked "1279.5"------------------ 1,279.01
Dannemora, 1.5 miles east of, on concrete culvert top, 10 feet from center line of location of track; aluminum tablet stamped "1188"------------------ 1,187.842
Cadyville, 5.4 miles west of, on top of concrete culvert over brook; bronze tablet stamped "734"------------------------------- 733.815
Morrisonville, 1.5 miles west of, 6 feet north of center of track, on concrete culvert at highway crossing; bronze tablet stamped "593"------------------ 592.818
Morrisonville, 0.9 mile east of, on top of concrete cattle pass, 12 feet from center of track; bronze tablet stamped "384"------------------- 383.600
Morrisonville, 3.5 miles east of, about midway between West End switch and railroad milepost marked "L.P.76-P.7," on top of concrete culvert; aluminum tablet stamped "294"------------------ 293.782
Peru, 4.9 miles north of, where road to Peru crosses road connecting Schuyler Falls and South Plattsburg (Salmon River station), near telephone pole; point on stone, marked "284.3"------------------ 284.11
Peru, 4 miles north of, at roadside, 730 feet north of road corner, near residence of Charles Wright, on boulder; aluminum tablet stamped "318"---------------------------------- 317.644
Peru, 2.1 miles north of, at road crossing about 0.5 mile north of Lapham Mills; square cut on top of rock, marked "320.5"------------------ 320.31
Peru, 0.9 mile east of, on culvert top on State highway about 200 feet east of residence of Barney Fitzpatrick; aluminum tablet stamped "294"------------------ 294.271
Peru, 960 feet north of post office, at road corner, near telephone pole; square cut on top of rock, marked "351.9"------------------ 351.82
Peru, In front of station; top of north rail of main track, marked "348.3"---------------------------------- 348.1
Peru, 1.5 miles south of, 7 feet west of track, on stone abutment of cattle pass; aluminum tablet stamped "373"---------------------------------- 378.236
Harkness, at crossing near Harkness station; top of south rail of main track, marked "374.1"------------------ 374.1
Harkness, 0.6 mile west of, 10 feet north of Peasleeve road, 130 feet west of road corner, 20 feet west of small culvert, in granite boulder; aluminum tablet stamped "379"---------------------------------- 378.861
Harkness, 1.6 miles west of, at road corner near residence of Warren Kirby, at north fence corner; square cut on stone, marked "641.8"------------------ 641.84
Harkness, 3.6 miles west of, 12 feet east of Peasleeve road, and 1,200 feet north of residence of Thomas Boyd, in boulder; aluminum tablet stamped "558"---------------------------------- 555.845
Harkness, 4.2 miles west of, on road to Peasleeve, at road corner near residence of Lawrence Clair, in grass triangle; square cut in small stone, marked "722.0"---------------------------------- 722.06
Harkness, 5.2 miles west of, on road to Peasleeve, at road corner; square cut on stone, marked "1105.7"---------------------------------- 1,105.76
Peasleeve, 4.2 miles south of, at road corner on Harkness road; point on small stone, marked "1041.4"---------------------------------- 1,041.51
Peasleeve, 3.2 miles south of, on Harkness road, at road corner, 15 feet west of Peasleeve road, opposite road to Peru, in small boulder; aluminum tablet stamped "949"---------------------------------- 949.232
Peasleeville, 2.2 miles south of, at road corner, on Harkness road, opposite telephone pole; point on stone, marked "855.4" —— 855.54
Peasleeville, 1.6 miles east of, on road to Peru, on rock at road corner near Patent school; square cut on top of stone, marked "725.5" —— 725.70
Peasleeville, 1 mile east of, bridge over Salmon River —— 668.6
Salmon River; surface of water under bridge, September 18, 1911 —— 660.4
Peasleeville, 1 mile east of post office, on road to Peru, at road corner opposite Ricketson's store; square cut on stone, marked "691.7" —— 691.89
Peasleeville, on rock near wall opposite Methodist Church, under elm tree 11 inches in diameter; aluminum tablet stamped "754" —— 754.28
Peasleeville, 0.9 mile west of post office, on road to Redford, at road corner; square cut on top of small stone, marked "723.8" —— 723.97

From east border of quadrangle along highways west, north, and west to Delaware & Hudson R. R., thence north 0.6 mile along the railroad to point 2 miles south of Peru.

Primary leveling by Fred W. Crisp in 1916.

Peru, 3.5 miles southeast of, on Peru-Keeseville road, northeast corner of crossroads, east end of concrete culvert; chiseled square, painted "400.8" —— 400.98
Peru, 3.5 miles southeast of, on Peru-Keeseville road, northeast corner of crossroads, east end of concrete culvert (p. b. m. to be set).
Peru, 3.5 miles south by 0.5 mile west of, at T road north, south, and east, southeast corner of junction, in root of tree; copper nail and washer, marked "U. S. G. S. B. M. 410.2" —— 410.33

DELHI QUADRANGLE.1

[Latitude 42° 15'–42° 30'; longitude 74° 45'–75°.]

Precise leveling in 1898 by E. L. McNair.

Near Colliers.

Colliers, in front of Delaware & Hudson station; top of rail —— 1,119.3
Colliers, 700 feet east of, bridge 54 across Susquehanna River, northeast corner of coping stone of east abutment; bronze tablet stamped "1119 A" —— 1,118.493
Cooperstown Junction, in front of station; top of rail —— 1,127.3

Leveling by Karl E. Schlachter in 1915.

From point 5 miles northwest of Fraser along highway to Fraser, thence northeast along New York, Ontario & Western Ry. to Delhi.

West Delhi, 2.4 miles south of, 700 feet north of school, on southeast corner of bridge over East Fork of Platner Brook; top of bolt painted "t. b. m. 1,577.4" —— 1,577.51
Fraser station, 2.4 miles north of, 175 feet east of road fork, in northeast corner of concrete abutment of bridge over East Fork of Platner Brook; bronze tablet stamped "N. Y. 1,556" —— 1,555.685
Fraser station, 1.3 miles north of, at road fork, in ledge on east margin of road; chiseled square painted "t. b. m. 1,429.5" —— 1,429.58
Keesler's siding, in front of platform; top of rail —— 1,361.7
Delhi, in front of station; top of rail —— 1,357.3

1 See Bull. 514, p. 34, for other elevations.
Delhi, Delaware County courthouse, southeast corner, in front face of water table; aluminum tablet stamped “1,370” (Bull. 514, p. 34) -- 1,370.459
West Delhi, 1.6 miles south of, in east side of stone culvert, in front of house of R. A. Blake; chiseled square painted “t. b. m. 1,678.5” -- 1,678.65

DEPEW QUADRANGLE.

[Latitude 42° 45’-43°; longitude 78° 30’-78° 45’.] Primary leveling in 1903 by George Seidel.

From Darien west along Erie R. R. to Alden.

Alden, in foundation of standpipe of village waterworks; aluminum tablet stamped “865 Albany 1903” -- 865.582

From Harris along highway west to Orchard Park.

Wales Center, 2.2 miles east of; north end of west abutment of iron bridge -- 1,045.70
Wales Center, 150 feet east of covered bridge, northeast corner of foundation wall of George Kelver’s residence; aluminum tablet stamped “898 Albany 1903” -- 897.753
East Aurora, in brick wall to left of main entrance of schoolhouse; aluminum tablet stamped “926 Albany 1903” (moved (?)) -- 926.235
East Aurora, 1.5 miles west of, iron bridge across Cazenovia Creek; end of west abutment -- 832.61
Orchard Park, southeast corner of Briggs Bros.’ block, in brick foundation; aluminum tablet stamped “868 Albany 1903” -- 868.933

From East Aurora northwest along the Pennsylvania R. R. and highway to Ebenezer.

Elma station, Elma Center post-office road crossing; top of rail -- 814.2
Spring Brook, railroad crossing; top of rail -- 748.0
Blossom (Upper Ebenezer), in foundation wall of schoolhouse, district 8; aluminum tablet stamped “672 Albany 1903” -- 672.087

From Williamsville east along public road via Clarence to Millgrove.

Williamsville, northwest corner of foundation wall of Mansion House; bronze tablet stamped “665 Albany 1903” -- 665.022
Clarence, main entrance of Parker High School; aluminum tablet stamped “752 Albany 1903” -- 752.704
Millgrove, 1.1 miles north of; east end of north abutment of small bridge -- 777.45

From Millgrove along the New York Central R. R. to Crittenden.

Wende, road crossing at station; top of rail -- 791.0
Wende, 1.1 miles east of station; New York Central R. R. bench mark at milepost 421 -- 811.38
Crittenden, 0.8 mile west of; New York Central R. R. bench mark at milestone 420 -- 825.56

1 This elevation is by a single line from a checked elevation at Big Tree, which is nearer than East Aurora, from which also by single line an elevation 0.9 foot less was derived.

104787°—Bull. 671—18—5

DEPOSIT QUADRANGLE.

[Latitude 42° 42° 15'; longitude 75° 15'-75° 30'.]

Precise leveling in 1901 by D. H. Baldwin.

Near Apex on New York, Ontario & Western Ry.

Apex, 0.45 mile north of, at railroad summit; top of east rail........ 1, 461. 3
Apex, in front of station; top of east rail.......................... 1, 445. 1

Precise leveling in 1900 by C. H. Semper.

Near Deposit.

Deposit, 1 mile west of, iron bridge over river, south wing of east
abutment; bronze tablet marked "1026 Albany 1900".............. 1, 026. 543
Deposit, in front of station, northbound track; top of rail........ 1, 003. 7
Deposit, 4.4 miles south of, north abutment of iron bridge, west side,
top of bridge seat; bronze tablet stamped "978 Albany 1900"....... 978.972
Hales Eddy, in front of station, northbound track; top of rail...... 973. 3

DRYDEN QUADRANGLE.

[Latitude 42° 15'-42° 30'; longitude 76° 15'-76° 30'.]

Primary leveling in 1898 by W. W. Gilbert.

From North Candor north along the Lehigh Valley R. R. to Ithaca.

Willseyville, Stevens Hotel, east end of walk between driveway and
building; chisel mark on south end of stone step...................... 948. 38
Willseyville, 2.25 miles north of, Delaware, Lackawanna & Western
R. R. bridge over highway, south abutment under west rail and 2.5
feet above ground; aluminum tablet stamped "957"..................... 958. 250
Besemer, 1.12 miles west of, in field 50 feet north of track; hickory
tree blazed "B. M. 46," spike in root (Lehigh Valley R. R. bench
mark).............................................................................. 952. 40
East Ithaca, 2.5 miles southeast of, 0.25 mile west of small white
schoolhouse among pines on south side of track and immediately
west of private road crossing; iron pin set in bowlder 20 feet north
of track (Lehigh Valley R. R. bench mark 472)....................... 943. 69
East Ithaca, 1.25 miles southeast of, 450 feet northwest of highway
crossing and 20 feet north of track; iron pin set in large boulder
(Lehigh Valley R. R. bench mark 49).................................... 901. 37

From Besemer east along highway to Caroline, thence south to Speedsville,
thence west to Willseyville.

Slaterville Springs, Methodist Church; chisel mark on top of south­
west corner of foundation.................................................. 1, 117. 81
Slaterville Springs, town clerk's office, east side of building, near
northeast corner, 3 feet above ground; aluminum tablet stamped
"A 1120"............................................................................. 1, 121. 400
Speedsville, O. F. Freeland's store, west side of building, 8 feet north
of southwest corner, in top course of masonry foundation; alumi­
num tablet stamped "A 1121".............................................. 1, 121. 939
Perryville schoolhouse, east side of road, west end of first stone step
from top, south of door; chisel mark...................................... 1, 010. 19
PRECISE AND PRIMARY LEVELING.

From Caroline north to Dryden, thence west to Etna.

Caroline, 1.25 miles north of, at West Oswego Creek, on abutment at southwest corner of bridge; chisel mark 1,305.88

Dryden, 2 miles south of, first crossing of Lehigh Valley R. R. north of Dryden Lake; top of rail 1,162.7

Dryden, South Street crossing; top of rail 1,101.8

Dryden, Southworth Library building, in foundation course of masonry south front of structure; aluminum tablet stamped "A 1090" 1,090.520

From Etna southwest along the Lehigh Valley R. R. to Ithaca.

Etna, Lehigh Valley R. R. station, opposite east line of building; top of rail 1,025.6

Varna, 0.5 mile northeast of, at iron highway bridge over Fall Creek, west end of south abutment; chisel mark 956.48

Varna, opposite west line of station; top of rail 997.5

Varna, 1.5 miles southwest of, 1,200 feet west of milepost 52, on north side of track; iron pin set in boulder (Lehigh Valley R. R. bench mark 51) 935.55

East Ithaca, 0.5 mile northeast of, abutment at southwest corner of iron highway bridge over Cascadilla Creek; iron pin (Lehigh Valley R. R. bench mark 502) 866.88

East Ithaca, opposite south line of station; top of west rail, main track 873.0

Ithaca, south end of Cornell University civil engineering building, bottom course of foundation, 5 feet east of southwest corner; aluminum tablet stamped "A 814" 815.107

DUNKIRK QUADRANGLE.

[Latitude 42° 15' - 42° 30'; longitude 79° 15' - 79° 30'.]

Precise leveling in 1898 by E. L. McNair.

At Dunkirk.

Dunkirk, St. Mary's Home and School, Washington Avenue, between Third and Fourth streets, in water table 20 feet from northeast corner; aluminum tablet stamped "598 Dunkirk 1899" 598.936

Dunkirk, Nelson Block, extreme northwest corner of, on top of water table; chiseled cross 588.866

Precise leveling in 1902 by D. H. Baldwin.

From Waites Crossing southwest along Lake Shore & Michigan Southern Ry. to Dunkirk.

Waites Crossing, nearly opposite flag station; top of east rail 625.4

Waites Crossing, 0.70 mile south of, southeast corner of cattle pass bridge 195, at east corner of parapet stone; chiseled square 624.10

Dunkirk, in front of Lake Shore & Michigan Southern Ry. station; top of rail 598.9

Primary leveling in 1898 by E. L. Faison.

From Dunkirk to Fredonia along the Dunkirk, Allegheny Valley & Pittsburgh R. R.

Dunkirk, extreme northwest corner of Nelson block; top of water table 588.866

Dunkirk, Elk Street crossing of Lake Shore & Michigan Southern Ry.; top of rail. 594.6 feet.

Dunkirk, 2 miles south of, Dunkirk, Allegheny Valley & Pittsburgh R. R. culvert 3; extreme northwest corner. 664.37

Fredonia, in front of Dunkirk, Allegheny Valley & Pittsburgh R. R. station; top of rail. 767.8

From Fredonia via Laona, Lillydale, Cassadaga, and Stockton to Mayville.

Laona, on west side of railroad bridge over Canadaway Creek, in top stone of north abutment; bronze tablet stamped "817 D". 817.926

Lillydale, 1.5 miles north of, southwest corner of abutment, south end of Skidmore viaduct; chiseled square. 1,295.60

Lillydale, in front of Dunkirk, Allegheny Valley & Pittsburgh station; top of rail. 1,312.9

Stockton, 500 feet west of Chriss's Hotel, east side of stone foundation of blacksmith shop on Mayville Street, 4 feet above ground; bronze tablet stamped "1316 D". 1,317.521

Mayville, at Jamestown Junction, west side of cemetery, highway bridge over Black Brook, in top stone at north end of east abutment; bronze tablet stamped "1324 D" (reset). 1,324.865

Mayville, top of bottom step of front of courthouse; chiseled square. 1,462.49

Mayville, schoolhouse grounds, in north meridian monument; bronze tablet stamped "1500 D". 1,500.670

Mayville, schoolhouse grounds, in south meridian monument; bronze tablet stamped "1499 D". 1,499.500

From Jamestown Junction southeast along the Jamestown, Chautauqua & Lake Erie Ry. to Wooglin.

Hartfield; top of station platform. 1,315.7

Wooglin, in front of station; top of south rail. 1,350.2

From West Portland northeast via Brocton to Fredonia.

West Portland, on northeast corner of second step of red brick church; cross mark. 774.75

Brocton, at crossing of Western New York & Pennsylvania Ry.; top of rail. 745.1

Brocton, 1 mile north of, 0.25 mile east of station, in south side of center pier of double arch (stone) of Lake Shore Ry. bridge over Slippery Rock Creek; copper bolt stamped "667 D". 668.518

Fredonta, south entrance to clothing store in Columbia Hotel; top of south stone step. 728.52

Eden Quadrangle.

[Latitude 42° 30'-42° 45'; longitude 78° 45'-79°.]

Precise leveling in 1902 by D. H. Baldwin.

From Eden southwest along Lake Shore & Michigan Southern Ry. to Derby.

Athol Springs, 1.79 miles south of, near Hamburg station on Pennsylvania R. R., road crossing on Lake Shore & Michigan Southern Ry.; top of rail. 651.6

Lake View, 1.99 miles north of, west end of box culvert; northeast corner of coping stone, chiseled square. 695.55

Lake View, in front of station; top of rail. 708.8

North Evans, in front of station; top of rail. 697.5
Precise and Primary Leveling.

Derby, 1.29 miles north of, 200 feet east of Lake Shore & Michigan Southern track, southeast corner of highway bridge, crossing Pennsylvania R. R., in west face of concrete wing wall 2 feet above ground; bronze tablet stamped "724 Rochester 1902".--- 723.807

Derby, in front of station; top of rail. 704.6

Derby, 1.27 miles south of trestle 236, southwest corner, near northwest corner of coping stone; chiseled square 681.08

Primary leveling in 1904 by I. W. Pettit, and in 1905 by R. P. Thompson.

From Blaidsell south along Pennsylvania R. R. via Hamburg to Collins station.

Hamburg, in stone foundation at northwest corner of Kopp's Hotel, at end of car line; bronze tablet stamped "826 Albany 1903 Adj".--- 825.555

Water Valley, Erie R. R.; top of rail 790.6

Eden Valley station, 300 feet east of Erie R. R. station, in northwest corner of foundation of Albert Dagle's house; bronze tablet stamped "792 Albany Adj 1903".--- 792.254

Eden Center, northeast corner of foundation of schoolhouse; bronze tablet stamped "Albany 828 Adj 1903".--- 827.573

North Collins, Erie R. R. station, in east face of southeast corner; bronze tablet stamped "847 Adj 1903".--- 847.023

Lawton, in west face of foundation wall of E. H. Lawton & Son's store; bronze tablet stamped "826 Albany Adj 1903".--- 825.940

From Hamburg along highway southeast to Boston Center.

North Boston, 3.7 miles east of Hamburg, on northwest corner of south abutment of bridge over Idlewood (or Eighteenmile) Creek; bronze tablet stamped "818 Albany 1903 Adj".--- 817.517

From Boston south to Mortons Corners, thence west to Lawton.

New Oregon, 100 feet northwest of crossroads, in southeast corner of foundation of Peter Kirsch's house; bronze tablet stamped "1075 Adj 1903".--- 1,075.137

Woodwards Hollow, in east face of foundation wall of F. J. Ryther's store; bronze tablet stamped "1305 Adj 1903".--- 1,304.850

Mortons Corners, 500 feet west of, 106 feet from corner of Martha Schabehorn's house, 77 feet from Helen Briggs's house, and 151.42 feet from Emily Sampson's house; iron post (primary-traverse station No. 134) stamped "1389 Adj 1903".--- 1,389.046

Whites Corners, 0.9 mile west of, in dooryard at northwest corner of dwelling house occupied by Mr. Christopher Naegle, on south side of road; primary-traverse iron post stamped "1115 Adj 1903".--- 1,114.399

Ellenville Quadrangle.1

[Latitude 41° 30'-41° 45'; longitude 74° 15'-74° 30'.]

Primary leveling in 1903 by G. M. Dimmick.

From Napanoch south along New York, Ontario & Western Ry. via Summitville to Middletown.

Ellenville, in foundation wall of station, center of east face; aluminum tablet stamped "319 Albany 1903".--- 319.518

Spring Glen, in foundation wall of station, center of west face; bronze tablet stamped "451 Albany 1903".--- 451.061

1 See Bull. 514, p. 35, for other elevations.

**Summitville, 150 feet north of station, north end of west retaining wall; point on top of stone sluiceway, square.**

- Feet.
- 546.44

**Wurtsboro (Mamakating station), in foundation wall of station, north end of east face; bronze tablet stamped “723 Albany 1903” (destroyed, 1914).**

- 722.782

**Bloomingburg, 0.6 mile south of, south end of east abutment of railroad bridge; point on top.**

- 713.53

**Winterton, in front of station; top of east rail.**

- 598.7

**Fair Oaks, in front of station; top of east rail.**

- 641.2

**Crawford Junction, south end of east retaining wall of small culvert 60 feet south of station; point on top.**

- 591.93

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**From Crawford Junction northeast along Erie branch to Pine Bush, thence to Dwaarkill (single-spur line).**

**Circleville, 150 feet south of station, at highway crossing; top of east rail.**

- 621.8

**Bullville, at highway crossing south of station; top of east rail.**

- 508.9

**Bullville, in foundation wall of Methodist Church, north end of east face; aluminum tablet stamped “518 Albany 1903.”**

- 517.840

**Thompson Ridge, 60 feet south of station, highway crossing; top of east rail.**

- 459.4

**Pine Bush, in foundation wall of Presbyterian Church, center of south face; bronze tablet stamped “397 Albany 1903.”**

- 396.919

**Dwaarkill, in foundation wall of the residence owned by Mr. Horne, center of north face; bronze tablet stamped “351 Albany 1903.”**

- 351.684

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**ELMIRA QUADRANGLE.**

[Latitude 42°–42°15′; longitude 76°45′–77°.]

**Precise leveling in 1898 by E. L. McNair.**

**From Big Flats east along Erie R. R. to Elmira.**

**Big Flats, 1.25 miles west of, in bridge seat at southwest corner of Erie R. R. bridge 67 A; bronze tablet stamped “899 D.”**

- 900.815

**Big Flats, in front of Erie station; top of south rail, westbound track.**

- 910.8

**Horseheads, in front of Erie station, westbound track; top of north rail.**

- 903.4

**Horseheads, 0.35 mile southwest of Erie station, on pier of Lackawanna R. R. bridge at crossing of Northern Central Ry., 50 feet south of center of northbound track of Northern Central Ry.; aluminum tablet stamped “901 D” (somewhat battered).**

- 902.111

**Horseheads, Northern Central station; northeast corner of stone doorsill of men’s waiting room.**

- 900.113

**Elmira, Erie station, eastbound track, opposite distance board; top of south rail.**

- 857.3

**Elmira, city hall, corner of Church and Lake streets, stone pedestal of lamp-post at left of Lake Street entrance; aluminum tablet stamped “857 Albany.”**

- 858.626

**Elmira, 0.5 mile east of Erie station, in stone foundation at west end of Erie R. R. bridge across Chemung River, between nearest eastbound tracks; head of iron bolt, chisel mark (not found, 1916).**

- 854.593
PRECISE AND PRIMARY LEVELING.

Precise leveling in 1899 by C. H. Semper.

From Elmira south along Northern Central Ry. to Williamsport, Pa.

Southport, in front of station; top of east rail

Elmira, 7 miles south of, creek and cattle-pass culvert, west side of railroad, in wall; bronze tablet stamped “1067 Harrisburg 1899”

State boundary (New York-Pennsylvania) line post, opposite; top of rail

Primary leveling in 1898 by W. W. Gilbert.

From Horseheads along the Northern Central Ry. to Watkins, thence to Burdett.

Horseheads, Lehigh Valley R. R., opposite southeast line of Horseheads station; top of rail, main track

Horseheads, men’s waiting room of Northern Central station; northwest corner of stone doorsill

Pine Valley, opposite south line of Pine Valley station; top of rail

FONDA QUADRANGLE.

[Latitude 42° 45’-43°; longitude 74° 15’-74° 30’.]

Primary leveling in 1896 by A. F. Krause.

From Auriesville along canal and thence along Fonda, Johnstown & Gloversville R. R. to Johnstown.

Auriesville, § mile west of West Shore R. R. station, northwest end of west wing, bridge over canal, north abutment, in corner stone; chiseled square (State engineer bench mark 106)

Auriesville, bridge over canal 0.5 mile west of West Shore R. R. station, in fourth course of north abutment, 1.5 feet east of east angle; cross cut in stone

Fultonville, bridge over Mohawk River, on top of coping of south abutment; chiseled square

Fonda County courthouse, in corner stone of fourth course of stones from top of foundation at northwest corner; bronze tablet stamped “294”

Cayadutta Creek, railroad bridge over, in northeast corner of coping stone, southeast end of north abutment; chiseled square

Sammonsivlle, station of the Fonda, Johnstown & Gloversville R. R., in large stone at corner of foundation; chiseled square

FRANKLINVILLE QUADRANGLE.

[Latitude 42° 15’-42° 30’; longitude 78° 15’-78° 30’.]

Primary leveling in 1903 by George Seidel.

From Canaeada west along public road to Rushford (on spur line).

Rushford, northeast corner of foundation wall of schoolhouse; aluminum tablet stamped “1517 Albany 1903”

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1 See Bull. 514, p. 69, for other elevations.

FULTON QUADRANGLE.¹

[Latitute 43° 15′–43° 30′; longitude 76° 15′–76° 30′.]

Primary leveling in 1898 by C. H. Semper and D. E. Baxter.

From Oswego south via Fulton to Hinmansville.

Minetto, State dam, west side of Oswego River, southeast corner of third bulkhead pier on top of surface; aluminum tablet stamped "302 A" 303.344

Minetto, 0.07 mile south of, Oswego Canal, between cinchers of middle gate; copper bolt (canal bench mark at lock 12) 308.54

Minetto, 1.3 miles south of, south wing of west abutment, second step; copper bolt (canal bench mark at bridge) 311.28

Minetto, 3.0 miles south of, Oswego Canal, between cinchers of middle gate; copper bolt (canal bench mark guard lock 4) 311.99

Minetto, 4.7 miles south of, Oswego Canal, lock 11, middle hollow between cinchers; copper bolt (L. S. B. M. 129) 320.18

Minetto, 5.5 miles south of, Oswego Canal, on first stone step, south end abutment; copper bolt (L. S. B. M. 128) 322.47

Minetto, 5.9 miles south of, Oswego Canal, in first step of abutment, south end; copper bolt (L. S. B. M. 127) 323.16

Minetto, 6.1 miles south of, Oswego Canal, on north hollow quoin between cinchers; copper bolt (L. S. B. M. 126) 329.025

Minetto, 6.2 miles south of, lock 9, in middle hollow quoin between cinchers; copper bolt (Oswego Canal bench mark) 337.15

Fulton, northwest corner of town hall, south First Street, in water table; aluminum tablet stamped "363 A" 364.542

Fulton, 0.5 mile south of, Oswego Canal, lock 8, on lower hollow quoin between cinchers; copper bolt (L. S. B. M. 125) 347.946

Fulton, 0.8 mile south of, Oswego Canal, first step of abutment, south end; copper bolt (canal bench mark) 351.00

Fulton, 0.9 mile south of, Oswego Canal, guard lock 3, in lower hollow quoin between cinchers; copper bolt (canal bench mark) 352.03

Fulton, 4.3 miles south of, Oswego Canal, guard lock 7, in middle hollow quoin between cinches; copper bolt (canal bench mark) 353.52

Fulton, 5.5 miles south of, Oswego Canal, unused lock, in lower hollow quoin; copper bolt (canal bench mark) 359.89

From Fulton east to Gilbert Mills, thence north to Vermilion, thence west to Oswego.

Gilbert Mills, southeast corner of schoolhouse, district 5; aluminum tablet stamped "435 Oswego" 436.144

Vermilion, on southeast corner of Methodist Church, Main Street; aluminum tablet stamped "422 Oswego" 422.559

South Scriba, on north side of Hall road, in southeast corner of Ladies' Aid Society hall; aluminum tablet stamped "400 Oswego" 401.517

Lansing, on northeast corner of brick schoolhouse; chiseled square 418.84

Oswego, at Rome, Watertown & Ogdensburg R. R. crossing, on Hall road; top of west rail 322.1

¹ See Bull. 514, pp. 87–88, for other elevations.
From Fulton southwest to Bowens Corners.

Fulton, 1.9 miles west of, 30 feet east of road to south, south end of west abutment of highway bridge over Lye Creek; chiseled square. 

Bowens Corners, south door of brick schoolhouse, district 5, on stone doorstep; aluminum tablet stamped “449 Oswego”.

**GENEVA QUADRANGLE.**

[Latitude 42° 45'-43°; longitude 76° 45'-77°.]

Primary leveling in 1899 by C. H. Semper.

From Geneva north to Lyons.

East X, on southwest corner of stone step of station house on Lyons & Geneva R. R.; chiseled mark.

Mitchell (West Junius), in north face wall of post office at railroad crossing; bronze tablet stamped “491 Oswego 1899”.

From Geneva south along Lehigh Valley R. R. to Kendalia.

Geneva, in west face of St. Peter’s Church, in water table; bronze tablet stamped “481 Oswego 1899”.

Geneva, 1.9 miles south of, in west end of south abutment of bridge 342, Lehigh Valley R. R.; copper bolt.

Geneva, 6.3 miles south of, in top step west end of south abutment of Lake road overhead bridge 337, Lehigh Valley R. R.; top of iron bolt.

Varick, 1.8 miles south of, in northeast foundation stone of Lehigh Valley water tank, on west side of road; bronze tablet stamped “562 Oswego 1899”.

From Mays Point south to Fayette.

Mays Point, in west wing south abutment, in third step, of Mays canal bridge; bronze tablet stamped “396 Oswego 1899”.

Seneca Falls, in south face wall of Mynderse Academy, North Park Street; bronze tablet stamped “465 Oswego 1899”.

Fayette post office, in northwest corner of Dutch Reformed Church; bronze tablet stamped “612 Oswego 1899”.

**GENOA QUADRANGLE.**

[Latitude 42° 30'-42° 45'; longitude 76° 30'-76° 45'.]

Primary leveling in 1899 by C. H. Semper and W. F. Hammond.

From Ovid Center southeast along Lehigh Valley R. R. to Ithaca.

Ovid Center, 2.5 miles south of, set in bridge seat of cattle pass, northeast side; top of iron rod (L. V. B. M. 325).

Farmer, corner of Main and Lodi streets, in northeast corner of Baptist Church; bronze tablet stamped “912”.

Farmer, 0.7 mile south of, in north wall of cattle pass, east side; top of iron bolt stamped “B. M. No. 323”.

Farmer, 2.4 miles south of, 600 feet north of highway, by fence west of railroad; top of iron bolt stamped “B. M. No. 322” (L. V.)
Covert, 1.4 miles south of, on west side of railroad, set in rock; top of iron pin stamped "320" (L. V.) ___________________________ 901.41
Covert, 1.9 miles south of, on west side of railroad, 600 feet south of highway, set in rock; top of iron pin (No. 319 L. V.) ___________________________ 882.08
Trumansburg, in south face of Union School and Academy; bronze tablet stamped "1000 Oswego 1899" ___________________________ 1,000.390
Trumansburg, first crossing west of station, set in rock on north side of track; iron pin (Lehigh Valley bench mark 318) ___________________________ 874.98
Willow Creek, 3 miles south of; top of iron plug set in boulder (L. V. B. M. 311) ___________________________ 598.09

From Ithaca north along road to Scipio.

Ludlowville, in south end of bulkhead dam; aluminum tablet stamped "481 Oswego" ___________________________ 482.334
Genoa, northeast corner of Hotel De Witt, in top of retaining wall; aluminum tablet stamped "837 Oswego" ___________________________ 838.591
Venice Center, north side of hotel building, in foundation stone; aluminum tablet stamped "698 Oswego" ___________________________ 999.600

From Ludlowville northwest along road to Aurora.

Black Rock (Ellsworth post office), iron bridge over Paines Creek, west abutment, in top of south wing; aluminum tablet stamped "723 Oswego" ___________________________ 724.413

GILBOA QUADRANGLE.

[Latitude 42° 15' - 42° 30'; longitude 74° 15' - 74° 30'.]

Primary leveling in 1900 by George Bailey and W. S. D. Moore.

From Lexington north to Prattsville.

Lexington, 2.5 miles north of, north abutment of Schoharie Creek bridge, east end, top stone; chisel mark ___________________________ 1,275.76
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark ___________________________ 1,181.18
Prattsville, public school building, in front wall; aluminum tablet stamped "1164 Albany" ___________________________ 1,164.638

From Prattsville east to Windham.

Windham, bridge over Batavia Creek on road to Hunter, top of north abutment, east end; bronze tablet stamped "1517 Albany" ___________________________ 1,517.884

From Prattsville north to Gilboa.

Prattsville, at fork with Grand Gorge road, Schoharie Creek bridge, east approach, top stone of north retaining wall at end of railing; chisel mark ___________________________ 1,151.04
Gilboa, 1.2 miles south of, south abutment of Manor Kill bridge, east end, top stone; chisel mark ___________________________ 1,115.65
Gilboa, 1.2 miles south of, south abutment of Manor Kill bridge, Schoharie Creek, in ledge of rock; bronze tablet stamped "1010 Albany" ___________________________ 1,010.190
PRECISE AND PRIMARY LEVELING.

From Gilboa east to Manorkill.

Strykersville (West Conesville post office), bridge 40 feet west of post office, on southwest abutment; chisel mark 1,280.12 Feet.

Conesville, bridge 150 feet west of post office, on northeast corner abutment; chisel mark 1,383.23 Feet.

Manorkill, white church opposite post office, southeast corner; bronze tablet stamped "Albany 1515" 1,515.295 Feet.

From Gilboa north via Blenheim to Breakabeen.

Blenheim, 300 feet north of post office, northwest side of road, in ledge of rock; aluminum tablet stamped "813 Albany" 813.430 Feet.

From Franklinton south to Livingstonville.

Livingstonville, in northwest corner of Methodist Church; bronze tablet stamped "Albany 1077" 1,077.310 Feet.

GLENS FALLS QUADRANGLE.1

[Latitude 43° 15'-43° 30'; longitude 73° 30'-73° 45'.]

Primary leveling in 1898 by Clark Brown.

At Fort Edward.

Fort Edward, Argyle Street canal bridge, north wing, east abutment, second step, face corner; chiseled cross in circle (canal bench mark) 141.56 Feet.

Fort Edward, lock 15, southeast anchor; chiseled cross in circle (canal bench mark 79) 148.52 Feet.

Fort Edward, high school building, front entrance, in stone pilaster at left side; bronze tablet stamped "145 A" 144.571 Feet.

GLOVERSVILLE QUADRANGLE.

[Latitude 43°-43° 15'; longitude 74° 15'-74° 30'.]

Primary leveling in 1900 by William Kelley; in 1896, by A. F. Krause and Clark Brown.

From Caroga Corners northeast along road via Bleecker Center, Benson Center, and Benson to Northville.

[The error distributed in this line is excessive.]

Caroga Corners, in field about 150 feet east of road intersection, in top of large boulder; bronze tablet stamped "1527 Albany" 1,527.198 Feet.

Benson Center Corners, 17 feet westerly from bars in wall, in field on farm of Ludwig Politch, on large boulder; aluminum tablet stamped "1288 Albany" 1,288.862 Feet.

Benson, 185 feet east of Methodist Church, nearly opposite Benson post office, north side of road, in top of large boulder; aluminum tablet stamped "1139 Albany" 1,138.783 Feet.

From Peters Corners south along road to Bleecker village (single-spur line).

Bleecker Village, in front of schoolhouse, district 4, on south side of road, in top of large boulder; aluminum tablet stamped "1506 Albany" 1,505.840 Feet.

1 See Bull. 514, pp. 55-56, for other elevations.

From Johnstown northeast along railroad to Mayfield.

Johnstown, station of the Fonda, Johnstown & Gloversville R. R., in first stone below brickwork at west corner of building; bronze tablet stamped “652” 652.008

Johnstown, 2.12 miles north of, railroad bridge 5, on northeast corner of top stone, east end of abutment; chiseled square 749.62

Gloversville, station of the Fonda, Johnstown & Gloversville R. R., in first stone below brickwork, 20 feet north of southwest corner of building; bronze tablet stamped “798” 798.136

Broadalbin, top of frog in switch at junction 813.1

Mayfield, platform at railroad station 743.0

Mayfield, 60 feet east of gristmill, 30 feet from creek, 90 feet south of railroad track, in broad boulder; copper bolt stamped “U. S. G. S. B. M. 756 Ft.” 752.199

GOSHEN QUADRANGLE.

[Latitude 41° 15'–41° 30'; longitude 74° 15’–74° 30’]

Precise leveling in 1900 by C. H. Semper.

From Howells southeast along Erie R. R. to Middletown, thence east along New York, Ontario & Western RY. to Campbell Hall.

Howells, in front of station, westbound track; top of rail 688.2

Middletown, in front of station, westbound track; top of rail 562.1

Middletown, Clemson Bros. saw shop, in front face of brickwork, left of office entrance; bronze tablet stamped “558 Albany 1900” 558.919

Mechanicstown, in front of station; top of rail 482.0

Crystal Run, in front of station; top of rail 419.0

Stony Ford, in front of station; top of rail 372.4

Campbell Hall, Campbell Hall Hotel, south face of brickwork; bronze tablet stamped “408 Albany 1900” 409.078

Primary leveling in 1904 by G. M. Dimmick.

From Burnside west along New York, Ontario & Western RY. to Campbell Hall, thence southwest along Erie R. R. to Goshen, thence southeast to Greycourt.

Kipps station, in foundation wall of residence of J. H. Kipps, south end of west face; aluminum tablet stamped “390 Albany 1903 Adj” 389.600

Goshen, in foundation wall of Episcopal Church, north end of west face; aluminum tablet stamped “439 Albany 1903 Adj” 438.794

Chester, in foundation wall of Methodists’ Church, center of south face; bronze tablet stamped “477 Albany 1903 Adj” 476.776

Greycourt, in face of north abutment of railroad bridge over highway; bronze tablet stamped “447 Albany” 448.282

From Greycourt southwest along the Lehigh & Hudson River RY. to Warwick, thence west along highway to Pine Island.

Lake station, in foundation wall of the residence of J. Halbut, center of east face; bronze tablet stamped “554 Albany 1903 Adj” 553.710

Warwick, in foundation wall of Methodist Church, north end of east face; aluminum tablet stamped “538 Albany Adj” 537.903

Edenville, in stone residence of J. E. Hotaling, east end of south face, 24 inches above ground; aluminum tablet stamped “473 Albany 1903 Adj” 473.217
PRECISE AND PRIMARY LEVELING.

Pine Island, in center of south face of brick railroad station, Pine Island division of the Erie Railroad; bronze tablet stamped "407 Albany 1903 Adj" -- 407.003

From Johnson northeast along New York, Susquehanna & Western R. R. to Middletown.

Slate Hill, in foundation wall of the store of Ourling Bros., south end of west face; bronze tablet stamped "505 Albany 1903 Adj" -- 505.300

GOUVERNEUR QUADRANGLE.

[Latitude 44° 15'-44° 30'; longitude 75° 15'-75° 30'.]

Leveling in 1913 by A. J. Kavanagh.

From point near Keenes northeast along New York Central & Hudson River R. R. and highway to DeKalb.

Gouverneur, 1.92 miles southwest of, at switch to east to St. Lawrence Marble Works; in switch block; copper nail stamped "449.2" -- 449.28

Gouverneur, 0.64 mile southwest of station, in railroad bridge over Oswegatchie River, in northeast corner of concrete abutment; bronze tablet stamped "429" -- 430.442

Gouverneur, in front of station; top of rail -- 441.9

Gouverneur, 0.09 mile northeast of station, in switch block where Factory Street crosses railroad; copper nail stamped "451.5" -- 451.51

Gouverneur, 1.08 miles northeast of station, on concrete culvert, north wing of west side; chiseled square -- 460.32

Gouverneur, 1.75 miles northeast of station, 330 feet south of milepost S-110 in northwest corner of stone culvert; bronze tablet stamped "449" -- 448.672

Gouverneur, 2.97 miles northeast of station, 600 feet north of milepost S-111, on middle stone of east side of cow pass; chiseled square -- 466.94

Gouverneur, 4.02 miles northeast of station, on granite boulder 11 feet west of track; chiseled square painted, "484.6" -- 484.55

Gouverneur, 4.29 miles northeast of, 200 feet north of Cole's switch at Pyrites mine, in east side of concrete culvert; bronze tablet stamped "474" -- 473.570

Richville, 2.22 miles southwest of, 0.45 mile north of road crossing, on east side of milepost S-118, on granite boulder at foot of telegraph pole, 40 feet west of track; chiseled square -- 465.38
Richville, 3.53 miles northeast of, on New York Central R. R., 560 feet north of milepost S-119, 50 feet east of track, on granite boulder; bronze tablet stamped “458”  457.562

Richville, 4.47 miles northeast of, on New York Central R. R., 280 feet north of road crossing, 10 feet east of track; top of left support of milepost painted “S-120”  426.52

Richville, 5.44 miles northeast of, where East De Kalb road crosses New York Central R. R., 30 feet east of track, in granite boulder, 10 feet south of road; bronze tablet stamped “424”  423.502

De Kalb, 1.95 miles southeast of, at road fork, on granite rock; chiseled square  400.12

De Kalb, in front yard of schoolhouse, 30 feet from center of highway, in granite boulder; bronze tablet stamped “376”  376.090

From point 0.9 mile northwest of De Kalb southwest and south along highway to Gouverneur.

De Kalb, 1.29 miles west of, on Maple Ridge road, 15 feet north of center of highway, on granite boulder; chiseled square painted “394.7”  394.67

De Kalb, 2.32 miles west of, on Maple Ridge road, 200 feet south of house on Burnham farm, 15 feet east of road, on granite boulder; chiseled square painted “407”  406.79

De Kalb, 3.58 miles southwest of, at three corners at Maple Ridge cheese factory, 40 feet east of Maple Ridge road, 90 feet north of road to east, in granite boulder; bronze tablet stamped “370”  369.732

De Kalb, 4.64 miles southwest of, 1.06 miles south of cheese factory, 10 feet east of road, 80 feet north of driveway, on granite boulder; chiseled square painted “391”  391.21

North Gouverneur, 2.05 miles north of, on Maple Ridge road, 420 feet south of Brown’s farm, 20 feet south of road, on granite boulder; chiseled square painted “355.4”  355.39

North Gouverneur, 1.06 miles north of, 150 feet north of residence of G. C. Conklin, 15 feet south of road, in granite boulder; bronze tablet stamped “390”  389.916

North Gouverneur, at crossroads, 60 feet west of intersection, on granite boulder; chiseled square painted “377.4”  377.34

Gouverneur, 6.26 miles north of, 150 feet south of George Whitmore’s farmhouse, 15 feet west of road, in granite boulder; bronze tablet stamped “373”  373.032

Gouverneur, 5.18 miles north of, 180 feet north of red house, on north bank of river, 10 feet east of road; chiseled square painted “402”  401.94

Gouverneur, 4.18 miles north of, 0.3 mile south of cross roads, on west side of concrete culvert; chiseled square painted “421”  420.89

Gouverneur, 3.61 miles north of, 250 feet south of farmhouse of G. Davis, in east side of concrete box culvert; bronze tablet stamped “423”  423.118

Gouverneur, 2.38 miles north of, on Rock Island road, 100 feet south of A. M. Rowley’s driveway, 10 feet east of road, on granite boulder; chiseled square painted “454.7”  454.55

Gouverneur, 1.33 miles north of, on south side first rise on Rock Island road outside corporation, 6 feet east of road, on granite boulder, chiseled square painted “464.5”  464.40
From Gouverneur, 0.95 mile south of, on Edwards Branch of New York Central R. R., on southwest corner of stone cow pass; chiseled square painted "452.8"  452.88

Hailesboro, 0.8 mile northwest of, on west end of bridge over Matoon Creek, on top of bridge seat; chiseled square painted "441"  440.51

Hailesboro, top of rail in front of station  472.8

Hailesboro, 0.19 mile east of station, in overhead crossing, in second stone from top, on north side of east end; bronze tablet stamped "487"  487.165

Hailesboro, 1.36 miles east of, 100 feet west of crossing, on granite boulder, 10 feet south of track; chiseled square painted "564"  563.52

York, 0.38 mile north of station, on southwest corner of stone culvert; chiseled square  584.31

York, 0.56 mile east of station, 15 feet south of track; in granite outcrop; bronze tablet stamped "568"  587.553

Emeryville, 0.27 mile west of station, on middle south side of stone cow pass; chiseled square  583.42

Emeryville, in front of station; top of rail  606.7

Emeryville, 0.75 mile east of station, 30 feet north of track, on granite boulder; chiseled square  599.12

Emeryville, 1.71 miles east of, at west end of railroad bridge over creek in north side of bridge seat; bronze tablet stamped "619"  618.58

Talcville, 0.86 mile west of, on railroad bridge over Oswegatchie River on north side 20 feet from east end; copper nail and washer in stringer  623.68

Talcville, in front of station; top of rail  647.3

Talcville, 0.33 mile east of station, on boulder 10 feet north of track; chiseled square  675.77

Edwards, 0.65 mile west of station, in railroad bridge over West Branch of Oswegatchie River, in south side of west abutment; bronze tablet stamped "653"  653.393

Edwards, in front of station; top of rail  664.5

Edwards, at corner opposite post office, on concrete sidewalk, at foot of telephone post; chiseled square painted "666.5"  666.47

Edwards, 4.55 miles north of, 65 feet north of old road to west to Trout Lake, 6 feet east of road, on granite boulder; chiseled square.  790.15

Trout Lake, 55 feet north of front door of schoolhouse, 90 feet south of road crossing, in solid granite ledge, 5 miles north of Edwards; aluminum tablet stamped "P. T. No. 4, N. Y., 1912, 707"  706.710

Trout Lake, 0.93 mile northeast of schoolhouse at corner, 65 feet south of road to east, on east side of culvert; chiseled square  693.13

Hermon, 1.03 miles west of, on bridge over Tanner Creek, east end; copper nail and washer in stringer  474.26

Hermon, 2.03 miles west of, 220 feet east of Bell schoolhouse corner, 10 feet south of road, on granite rock; chiseled square  465.59

Richville, 5.44 miles northeast of, where East De Kalb road crosses New York Central R. R., 30 feet east of track in granite boulder 10 feet south of road; bronze tablet stamped "424"  423.502

GREENE QUADRANGLE.

[Latitude 42° 15’–42° 30’; longitude 75° 45’–76°.]

Primary leveling in 1900 by W. E. Green and in 1902 by C. W. Marvin.

From Chenango Forks northeast along the Delaware, Lackawanna & Western R. R. to Greene.

Willard, in front of station; top of rail
Greene, Main street crossing; top of rail
Greene, town hall, in foundation stone under middle column; bronze tablet stamped “923 Albany”
Greene, waiting room at station; doorsill

From Chenango Forks northwest along Delaware, Lackawanna & Western R. R. to Lisle.

Barker, road crossing near station; top of rail
Barker, northwest corner of abutment of highway bridge; bronze tablet stamped “934 Albany”
Whitney Point, waiting room at station; doorsill

From East Pharsalia southwest to Smithville Flats (single-spur line).

McDonough, east foundation wall of Emanuel Baptist Church, 3 feet from southeast corner; aluminum tablet stamped “1418 Albany”
Smithville Flats, in stone foundation of Presbyterian Church, 1 foot west of southeast corner; bronze tablet stamped “1033 Albany 1902”

From Lisle north along highway to Cincinnatus.

Willett, southeast corner of foundation wall of Hotel Ingall; bronze tablet stamped “1039 Albany”

HAMLIN QUADRANGLE.

[Latitude 43° 15’–43° 30’; longitude 77° 45’–78°.]

Primary leveling in 1897 by E. L. McNair.

From Brockport north to Hamlin, thence east to Hilton, thence south to Spencerport.

Hamlin, Hamlin House, 6 feet from southwest corner, in ground inside fence; iron post stamped “B 337”
Hilton, house of Dr. J. J. Williams, in foundation wall under bay window; bronze tablet stamped “B 284”

HAMMOND QUADRANGLE.

[Latitude 44° 15’–44° 30’; longitude 75° 30’–75° 45’.]

Leveling in 1913 by A. J. Kavanagh.

From Keenes northeast along New York, Central & Hudson River R. R. 3.1 miles.

Keenes, 66 feet south of center of highway, 45 feet east of center of track, 150 feet southwest of Kentfield House, in lower end of granite outcrop; aluminum tablet stamped “465”

1 See Bull. 514, pp. 20–21, for other elevations.
Keenes, 1 mile northeast of, on New York Central R. R. at south end of Matoon siding, in switch block 12 feet south of center of track; copper nail and washer stamped "448.645"—Feet. 448.64

Keenes, 2.15 miles northeast of, where Antwerp road crosses railroad, 250 feet north of north end of Matoon siding, in base of warning sign; copper nail and washer stamped "466.760"—Feet. 466.76

Keenes, 3.08 miles northeast of, 0.32 mile north of mile post 50104 on New York Central R. R., in stone culvert, east side; bronze tablet stamped "449"—Feet. 448.784

Near Gouverneur.

Gouverneur, 3.04 miles southwest of, 430 feet north of yard limit sign, 22 feet east of track, on granite boulder; chiseled square marked "447.8"—Foot. 447.84

HAMMONDSPORT QUADRANGLE.

[Latitude 42° 15'-42° 30'; longitude 77°-77° 15'.]

Primary leveling in 1899 by W. F. Hammond.

From Catawba southwest to Hammondsport.

Urbana, in east side of wine cellar; tablet stamped "734 Oswego 1899"—Feet. 734.479

Hammondsport, 0.25 mile south of, in west end of north abutment of bridge over inlet to Lake Keuka; tablet stamped "718 Oswego 1899"—Feet. 718.662

From Savona northeast via Bradford and Tyrone to Reading Center.

Savona, in south end of east abutment of highway bridge over Cohocton River; tablet stamped "1050 Oswego"—Feet. 1,050.708

Bradford, in top of west end of south abutment of bridge; bronze tablet stamped "1100 Oswego 1899"—Feet. 1,100.442

Tyrone, in west end of south wall of highway bridge at gristmill; bronze tablet stamped "1155 Oswego 1899"—Feet. 1,155.231

Altay, 1,000 feet west of, in top of north wing of east abutment of highway bridge; bronze tablet stamped "1213 Oswego 1899"—Feet. 1,213.661

From Cooper north via East Campbell and Monterey to Tyrone.

Monterey, 60 feet northwest of iron bridge, in boulder; bronze tablet stamped "1212 Oswego 1899"—Feet. 1,212.778

From Savona via the Erie R. R. to Painted Post.

Campbell, 700 feet north of station, south wall of railroad girder bridge, on east end of bridge seat; chisel mark—Feet. 1,007.21

Painted Post, 2 miles north of, crossing of the Delaware, Lackawanna & Western and Erie railroads; top of rail—Feet. 949.16

Painted Post, 0.8 mile west of, in southeast corner of open bridge, on precise-level line; bronze tablet stamped "933 Dunkirk 1898"—Feet. 936.195

Near Monterey.

Coopers Plains, 6 miles north of, southwest corner of bridge; in chord—Feet. 1,078.46

Monterey, 3 miles south of; top of boulder at road to South Bradford—Feet. 1,127.49

104787°—Bull. 671—18—6
Monterey, 1.5 miles south of, southwest corner of iron bridge; top of iron support 1,177.68
Monterey, 60 feet northwest of iron bridge, in boulder; bronze tablet stamped “1212 Oswego 1899” 1,212.78

HARFORD QUADRANGLE.

[Latitude 42° 15'-42° 30'; longitude 76°-76° 15'.]

Primary leveling in 1900 by W. E. Green.

From Lisle northwest along the Delaware, Lackawanna & Western R. R. to Messengerville.

[The error distributed in this line is excessive.]

Lisle, 100 feet north of station, at road crossing; top of rail 972.4
Lisle, southeast corner of schoolhouse 1; bronze tablet stamped “975 Albany” 975.166
Killawog, waiting room at station; doorsill 1,001.03
Marathon, Main Street crossing; top of rail 1,041.3
Marathon, waiting room at station; top of rail 1,043.0
Marathon, 1.5 feet from northwest corner of Peck Memorial Library, in water table; bronze tablet stamped “1019 Albany” 1,019.821
Messengerville, at road crossing near milk station; top of rail 1,055.7
Messengerville, road crossing near station; top of rail 1,055.6

From Maine north to Nanticoke (single-spur line).

Nanticoke, at north corner of house of Mrs. Mary Councilman, in foundation wall; aluminum tablet stamped “1100 Albany” 1,101.044

From Newark Valley north along the Lehigh Valley R. R. to point 4 miles south of Dryden.

Berkshire, in front of station; top of rail 1,042.7
Berkshire, Methodist Episcopal Church, north side of west or front entrance; bronze tablet stamped “1055 A” 1,055.658
Berkshire, 0.2 mile north of, at crossing near milk station; top of rail 1,046.1
Richford, waiting room at station; doorsill 1,100.02
Richford, at road crossing near station; top of rail 1,098.6
Richford, 0.1 mile north of Lehigh Valley R. R. station; bench mark under water tank, on southwest foundation stone 1,100.34
Harford Mills, waiting room at station; doorsill 1,152.44
Harford, waiting room at station; doorsill 1,185.62
Harford, in north front of Harford Methodist Episcopal Church; aluminum tablet stamped “1196 A” 1,195.861

HARLEM QUADRANGLE.

[Latitude 40° 45'-41°; longitude 73° 45'-74°.]

At Willets Point (U. S. Engineer Corps bench mark).

Willets Point, military post grounds, long dock; face of retaining wall under coal shed, marked “+18.0555” with chisel (reported destroyed 1909) 14.135

1 See Bull. 514, pp. 41-42, for other elevations.
PRECISE AND PRIMARY LEVELING.

HARTWICK QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 75°-75° 15'.]

Primary leveling in 1904 by G. M. Dimmick.

From Schuyler Lake southeast to Cooperstown.

Oakville, in foundation wall of Hotel Ayres, south end of east face; bronze tablet stamped "1278 Adj. 1903" 1,277.753

HEMPSTEAD QUADRANGLE.

[Latitude 40° 30'-40° 45'; longitude 73° 30'-73° 45'.]

Primary leveling in 1897 by Clark Brown.

At Creedmoor schoolhouse.

Creedmoor schoolhouse, northwest corner of Madison Avenue and Pine Street, 15 feet from south line of lot and 2 feet from front line; iron post stamped "85 W. P." 85.163

Mineola, in coping west end north pier of railroad water tank; bronze tablet stamped "105 W. P." (reported destroyed 1909) 105.291

Merrick, southwest corner of railroad crossing, about 15 feet from center of track, 5 feet west of line of street, 15 feet north of corner of stone; iron post stamped "19 W. P." 18.834

From Merrick west via Freeport to Rockville, hence north to Mineola.

Rockville Center, northeast corner of Village Avenue and Observer Street, in stone water table of brick building north of door between pilaster and window; bronze tablet stamped "26 W. P." 26.378

HIGHMARKET QUADRANGLE.

[Latitude 43° 30'-43° 45'; longitude 75° 30'-75° 45'.]

Primary leveling in 1902 by J. B. Maguire.

From Houseville southeast along trail and highway to Clemens Corners.

[Wetmore, 1 mile southeast of, Page & Fairfield Co. lumber camp 6, at upper end of tramway, in the north foundation wall of camp; bronze tablet stamped "2003 Albany" 2,002.641

Michigan Mills (4 miles south of Page), at entrance to trail in woods, 250 feet north by 150 feet west of mill, in boulder; bronze tablet stamped "1778 Albany" 1,777.526

North Osceola (Clemens Corners), school 4, Osceola Township, in northeast corner of foundation wall; aluminum tablet stamped "1591 Albany" 1,590.955

From Clemens Corners south to Osceola.

Osceola, southwest corner of foundation of general store and post office; aluminum tablet stamped "1083 Albany" 1,032.970

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See Bull. 514, pp. 30-31, for other elevations.

From Hooker north to Gardners Corners.

Hooker, 2 miles northeast of southeast corner of Jesse Marcellus farm, 10 feet west of fence and 325 feet north of creek at the Culppepper road, in boulder; bronze tablet stamped “1758 Albany” __ 1,756.827

HOBART QUADRANGLE.

[Latitude 42° 15’–42° 30’; longitude 74° 30’–74° 45’.]

Primary leveling in 1901 by William Kelley.

From Roxbury northeast along Ulster & Delaware R. R. to Grand Gorge, thence west to Hobart.

Roxbury, in front of station; top of west rail ___________ 1,495.1
Roxbury, 0.85 mile north of, north abutment of Ulster & Delaware bridge 59, west end; aluminum tablet stamped “1499 Albany 1901” __ 1,499.601
Grand Gorge station; platform _________________________ 1,562.6
Grand Gorge, 125 feet east of main track and 100 feet north of station, top of large boulder; aluminum tablet stamped “1561 Albany 1901” __________ 1,561.901
South Gilboa station, under overhead bridge; top of west rail __ 1,748.8
Stamford, in front of station; top of south rail, main track ___________ 1,788.7
Hobart, 0.25 mile east of, west abutment of bridge 70, south end of back wall; aluminum tablet stamped “1633 Albany 1901” ____________ 1,634.701
Hobart, in front of station; top of north rail ________________ 1,636.0

From Stamford northwest along highways to North Kortright, thence northeast to North Harpersfield.

Stamford, Joseph Millan’s brick store on Main Street, in northwest face; aluminum tablet stamped “1826 Albany 1901” ___________ 1,827.24
North Kortright, front of post office, south side of road; spike in pine tree _________________________________ 1,517.43
North Harpersfield, southerly side of residence of Jas. A. Topping, under bay window, in foundation wall; bronze tablet stamped “1609 Albany 1901” ____________ 1,610.221

HONEOYE QUADRANGLE.

[Latitude 42° 45’–43°; longitude 77° 30’–77° 45’.]

Precise leveling in 1902 by D. H. Baldwin.

Near Honeoye Junction.

Scottsville, 1.75 miles south of, southwest corner of culvert, on coping stone; chiseled square __________________________ 540.30
Honeoye Junction, in front of flag station; top of east rail ___________ 537.3
Honeoye Junction, Lehigh Valley R. R. bridge 34, northeast corner, near corner of foundation coping stone; chiseled square ____________ 553.584

From line continued east along Lehigh Valley R. R.

Genesee Valley Junction, grade crossing of Erie and Lehigh Valley railroads; top of rail __________ 538.8
Primary leveling in 1901 by C. H. Semper.

From East Bloomfield west along New York Central R. R. to Genesee Valley Junction.

[The error distributed as far as Honeoye Falls is excessive.]

West Bloomfield, in front of station; top of rail 776.3
Honeoye Falls, Church Street crossing; top of rail 668.1
tablet stamped "657 Rochester 1901" 656.414
West Rush, 200 feet south of station, west face of hotel, in foundation stone; bronze tablet stamped "571 Rochester 1901" 570.282
West Rush, 100 feet west of station, road crossing; top of rail 557.9
Genesee Valley Junction (Rush Junction), grade crossing of the New York Central & Hudson River and the Erie railroads; top of rail 540.8

From Honeoye Falls south along highway to Livonia Center, thence west to Livonia, thence south to South Livonia.

Lima, St. Rose's School, Rochester Street, west face of north end; aluminum tablet stamped "840 Rochester 1901" 849.065
Livonia Center, Lehigh Valley R. R. crossing, near station; top of rail 975.9
Livonia Center, Catholic Church, front face of southwest corner; bronze tablet stamped "1093 Rochester 1901" 1,092.415
Livonia, Main Street crossing of Erie R. R.; top of rail 1,024
South Livonia, road crossing near station; top of rail 1,162.1

From Livonia Center south along Lehigh Valley R. R. to Hemlock, thence southeast along highway to Honeoye.

Hemlock, in front of station; top of rail 907.8
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked) 843.433

From McQuaens Crossing along the Erie R. R. to Livonia.

South Lima, near southeast corner of cold-storage building at railroad station; bronze tablet stamped "912 Rochester 1901" 911.607

HORNELL QUADRANGLE.

Latitude 42° 15'-42° 30'; longitude 77° 30'-77° 45'.]

Precise leveling in 1898 by E. L. McNair.

From Almond east along Erie R. R. to Adrian.

Almond, in front of Erie station; top of rail 1,395.0
Almond, 950 feet east of Erie station, bridge foundation at northwest corner of small railroad bridge over highway; aluminum tablet stamped "1883 D" 1,382.914
Hornell, in front of Erie station; top of rail 1,152.8
Hornell, 0.7 mile east of Erie station, foundation wall at northeast corner of iron railroad bridge; aluminum tablet stamped "1141 D" 1,142.481
Canisteo, in front of Erie station; top of south rail 1,128.0
Canisteo, 2.1 miles east of, bridge seat at northeast corner of iron-girder bridge 87; aluminum tablet stamped “1113 D” (destroyed) 1,114.092
Adrian, in front of Erie station; top of south rail 1,101.7

From Burns southeast along Erie R. R. to Hornell.
Burns, in front of station; top of northeast rail 1,196.2
Burns, 0.4 mile southeast of, north side of track, on east wall of open culvert; chiseled square 1,190.10
Arkport, in front of station; top of north rail 1,191.9
Arkport, Methodist Protestant Church, southeast corner, in foundation stone; aluminum tablet stamped “1188 Rochester 1902” 1,188.284
Arkport, 1.91 miles south of, southeast corner of bridge 4, on wing wall; chiseled square 1,169.0
Hornell, 0.66 mile north of station, southeast corner of bridge 1, on foundation stone; chiseled square 1,169.04

Leveling in 1914 by A. J. Kavanagh.

From Arkport north along highway to South Dansville, thence east to Cohocton.
Arkport, in Methodist Church, southeast corner, in foundation stone; aluminum tablet stamped “1188 Rochester 1902” 1,188.284
Arkport, 1.3 miles northeast of four corners, in barnyard of Fred Lawrence, on granite boulder; chiseled square painted “U. S. T. B. M. 1460” 1,460.59
Arkport, 1.8 miles northeast of, on small boulder beside road; chiseled square painted “U. S. T. B. M. 1594” 1,594.64
Arkport, 3.1 miles northeast of, in southeast corner of retaining wall of small cemetery; bronze tablet stamped “U. S. P. B. M. 1860” 1,859.695
South Dansville, 2.65 miles southwest of, at three corners at foot of hill, on west side of rubble culvert; chiseled square painted “U. S. T. B. M. 1612.7” 1,612.72
South Dansville, 1.52 miles southwest of, at three corners at Dunn’s farm, on east side of culvert; chiseled square painted “U. S. T. B. M. 1489” 1,488.89
South Dansville, at three corners at gristmill, in northeast wing of concrete bridge; bronze tablet stamped “U. S. P. B. M. 1406.3” 1,406.228
South Dansville, 0.82 mile east of, in front of abandoned house near top of “Dey Hill,” on boulder beside road; chiseled square painted “U. S. T. B. M. 1803” 1,802.66
South Dansville, 2.40 miles east of, 90 feet west of Healey schoolhouse, on boulder beside road; chiseled square painted “U. S. T. B. M. 2015” 2,014.85
South Dansville, 3.50 miles east of, 1.3 miles west of Loon Lake four corners, in concrete sidewalk into L. R. Kiefer’s house; bronze tablet stamped “U. S. P. B. M. 2029” 2,028.723
Loon Lake, at four corners near lake, 30 feet east of crossroads, on granite boulder; chiseled square painted “U. S. T. B. M. 1727.7” 1,727.53
Loon Lake, 0.9 mile southeast of four corners, at crossroads at large yellow barn, on boulder under cherry tree; chiseled square painted “U. S. T. B. M. 1739” 1,738.72
Cohocton, 4.8 miles west of, in front of Jacob Werth’s red barn, in granite boulder; bronze tablet stamped “U. S. P. B. M. 1793” 1,792.623
Cohocton, 3.72 miles west of, 100 feet east of J. O. Rex's house, on north side of concrete culvert; chiseled square painted "U. S. T. B. M. 1670" .................................................. 1,669.13

Cohocton, 1.2 miles west of, on north side of concrete culvert; chiseled square painted "U. S. T. B. M. 1428" .................................................. 1,428.36

From point 4.8 miles southwest of Cohocton south along highway to point near Howard, thence southwest to Hornell, thence north along Pittsbug & Northern R. R. to Arkport.

Haskinsville, 3.42 miles north of, opposite "South Church," at road fork, on boulder at corner of stone wall; chiseled square painted "U. S. T. B. M. 1704" .................................................. 1,703.18

Haskinsville, 2.53 miles north of, in end of concrete sidewalk in front of W. M. E. Holmes's house; bronze tablet stamped "1690" .................................................. 1,689.677

Haskinsville, 1.04 miles north of, 30 feet south of driveway to Harvey Henderson's, on boulder beside road; chiseled square painted "U. S. T. B. M. 1650" .................................................. 1,649.48

Haskinsville, 300 feet north of four corners, on middle east side of bridge; chiseled square painted "U. S. T. B. M. 1607.6" .................................................. 1,607.53

Haskinsville, 1.64 miles southeast of, opposite residence of Mrs. C. J. Myers, 30 feet east of road in large boulder; bronze tablet stamped "1884" .................................................. 1,883.56

Haskinsville, 2.67 miles southeast of, at three corners, opposite Cyrus Keller's house, on flat rock; chiseled square painted "U. S. T. B. M. 1993" .................................................. 1,992.97

Haskinsville, 3.34 miles southeast of, 0.2 mile north of State road, in beam of abandoned barn; copper nail and washer painted "U. S. T. B. M. 1903" .................................................. 1,904.14

Howard, 1.77 miles west of, on south side concrete culvert; bronze tablet stamped "1727" .................................................. 1,726.663

Howard, 2.63 miles west of, 215 feet west of Fred De Groff's residence, on north wing concrete culvert; chiseled square painted "U. S. T. B. M. 1754" .................................................. 1,754.09

Big Creek, 0.57 mile east of church, on southwest corner stone culvert; chiseled square painted "U. S. T. B. M. 1549" .................................................. 1,549.16

Big Creek, 0.74 mile west of church, 5 feet south of road, in base of S. P. C. A. concrete watering trough; bronze tablet stamped "1453" .................................................. 1,452.554

Big Creek, 1.85 miles west of church, at T road to south, on south side of concrete culvert; chiseled square painted "U. S. T. B. M. 1381" .................................................. 1,380.61

Big Creek, 3.07 miles west of church, on south wing concrete culvert; chiseled square painted "U. S. T. B. M. 1323" .................................................. 1,322.94

Hornell, 2.6 miles northeast of, 50 feet east of driveway to Glendale Farm, in north wing concrete culvert; bronze tablet stamped "1284" .................................................. 1,284.010

Hornell, 1.83 miles northeast of, in west wing of concrete culvert; chiseled square painted "U. S. T. B. M. 1230" .................................................. 1,229.98

Hornell, 1 mile north of, at fork in State road, at Country Club, on southeast corner of bridge seat; chiseled square painted "U. S. T. B. M. 1183" .................................................. 1,183.23

Hornell, 850 feet north of Shawmut station, in southwest corner of concrete highway bridge; bronze tablet stamped "1150" .................................................. 1,155.343

Arkport, in Methodist church, in southeast corner of foundation wall; aluminum tablet stamped "1188 Rochester 1902"         1,188.284
Arkport, 2 miles east of, on northwest corner Erie R. R. bridge; chiseled square marked "U. S. T. B. M. 1172"        1,171.61
Arkport, 3.05 miles east of, on concrete foundation of block signal No. 334-1 B; chiseled square painted "U. S. T. B. M. 1171"      1,171.45
Hornell, 850 feet north of Shawmut station, in southwest corner concrete highway bridge; bronze tablet stamped "1156"        1,155.343

Near Howard (double-spur line).
Howard, 1.14 miles west of, on north side concrete culvert; chiseled square painted "U. S. T. B. M. 1706"       1,706.28
Howard, at three corners, west of village, on north wing concrete culvert; chiseled square painted "U. S. T. B. M. 1654.6"    1,654.46
Howard, 100 feet east of post office, in concrete horse block in front of Mrs. Peck’s house; bronze tablet stamped "1648" 1,647.776

INDIAN LAKE QUADRANGLE.
[Latitude 43° 30’–43° 45’; longitude 74° 15’–74° 30’.] Primary leveling in 1896 by Clark Brown and A. F. Krause.

Wakely Dam.
Wakely dam, 25 feet east of north of log house; in boulder copper bolt stamped "2124"                         2,119.764

From Speculator north via Jessups River and Lewey Lake to Indian Lake.
Speculator, small triangular park at crossroads, in boulder; copper bolt stamped "U. S. G. S. 1772 Ft. B. M."        1,768.369
Camp Perkins, 0.5 mile east of, 50 feet west of Jessups River bridge, on north bank of river, in outcrop 5 feet above center of bridge; copper bolt stamped "U. S. G. S. 1689 Ft."             1,685.012
Lewey Lake, 100 feet from south shore of, 300 feet north of Lewey Lake House, in boulder 8 feet broad; copper bolt stamped "U. S. G. S. 1659 Ft. B. M."                             1,654.964
Sabael, 3 miles southwest of, 900 feet southwest of Beaver Brook bridge, outcrop 3 feet above and 20 feet north of road; copper bolt stamped "1799 Ft. U. S. G. S. B. M."                        1,795.112

From Kings Flow dam southwest via Camp Comfort to Speculator.
Camp Comfort (Ross Kunjamuk House), 2,000 feet south of, 8 feet east of road, in boulder 6 by 4 by 2 feet; copper bolt stamped "1774 Ft."                                   1,770.375
Speculator, 3 miles northeast of, at Rylander Clearing, west of Elm Lake, 300 feet south of house foundation, 1,000 feet north of top of hill, in flat outcrop 6 feet west of road; copper bolt stamped "U. S. G. S. B. M. 1952 Ft." 1,947.992

JAMESTOWN QUADRANGLE.
[Latitude 42°–42° 15’; longitude 79°–79° 15’.] Primary leveling in 1902 by G. M. Dimmick.

From Jamestown northeast along Erie R. R. to Cherry Creek.
Jamestown, 1.42 miles east of, railroad bridge over Chautauqua Outlet, on center of west abutment; square             1,302.34
PRECISE AND PRIMARY LEVELING. 89

Kennedy, 750 feet south of station, east end of north abutment of Feet.  
Erie R. R. bridge; bronze tablet stamped "1257 Dunkirk 1902" 1,257.353
Kennedy, in front of station; top of east rail 1,260.6
Conewango, in front of station; top of east rail 1,282.8
Conewango, residence of Dr. Smith, north face, east end, in foundation wall; bronze tablet stamped "1293 Dunkirk 1902" 1,293.321

From Falconer north along the Dunkirk, Allegheny Valley & Pittsburgh R. R. to Gerald, thence along highway east to Ellington.

Falconer, 500 feet south of station, top of east end of north abutment of bridge; aluminum tablet stamped "1258 Dunkirk 1902" 1,257.717
Gerry, in front of station; top of east rail 1,296.1
Gerry, in foundation wall of schoolhouse, district 1, 9 feet from southeast corner, east face; bronze tablet stamped "1309 Dunkirk 1902" 1,308.729
Ellington, foundation wall of Congregational Church, in north face of east end; bronze tablet stamped "1380 Dunkirk 1902" 1,379.945

From Jamestown southeast along highway via Kiantone to Fentonville (checked by line from Pennsylvania).

Kiantone (6 miles southeast of Jamestown), in foundation wall of church, center of south face; aluminum tablet stamped "1493 Dunkirk" 1,493.126
Fentonville, road crossing; top of rail 1,248.0
Fentonville, 500 feet east of station, northwest corner of foundation wall of Ira Adam's house; bronze tablet stamped "1255 Dunkirk" 1,255.414

KAATERSKILL QUADRANGLE. 0

[Latitude 42°-42° 15'; longitude 74°-74° 15'.]

Primary leveling in 1900 by George Bailey and W. S. D. Moore.

From Lanesville northeast to Kaaterskill Junction, thence northwest to Hunter.

Edgewood, 300 feet north of station, north pier of bridge, east end, in top stone; bronze tablet stamped "1790 Albany" 1,790.606
Hunter, 1 mile south of, east abutment of highway bridge, south end, top of stone; chisel mark 1,620.17
Hunter, public-school building, north side of front entrance, in foundation wall; aluminum tablet stamped "1602 Albany" 1,602.562

KASOAG QUADRANGLE.

[Latitude 43° 15'-43° 30'; longitude 75° 45'-76°.]

Primary leveling in 1903 by G. M. Dimmick and George Seidel, in 1904 by L. E. Tucker.

From Altmar southeast along the Rome, Watertown & Ogdensburg R. R. to West Camden.

Kasoag, 500 feet east of Rome, Watertown & Ogdensburg R. R., northwest corner of foundation of post office; aluminum tablet stamped "638 Albany" 637.817
Williamstown, in west foundation wall of freight depot; bronze tablet stamped "603 Albany" 602.550
West Camden, 150 feet east of railroad, in northwest corner of foundation of Foster's general store; bronze tablet stamped "542 Albany". 541.784

From Camden north along road to Osceola.

Florence, at intersection of State road and road to Osceola, southwest corner of the foundation of O'Mara's general store; bronze tablet stamped "974 Albany" (destroyed; store burned). 973.826

From West Amboy along highway via Amboy to Williamsburg.

West Amboy, in foundation wall of Union Church, east end of north face; aluminum tablet stamped "588 Albany 1903". 587.989

Amboy, in foundation wall of Union Church, west end of south face; bronze tablet stamped "654 Albany 1903". 654.158

From Cleveland northeast to Camden.

Elpis, in north wall of foundation of Methodist Church; bronze tablet stamped "571". 571.236

KINDERHOOK QUADRANGLE.

[Latitude 42° 15'-42° 30'; longitude 73° 30'-73° 45'.]

Primary leveling in 1900 by George Bailey.

From Philmont north to Chatham.

I'hillmont, west side of Empire House, in stone over cellar window; bronze tablet stamped "Albany 525". 525.504

Ghent, just south of New York Central R. R. station, at crossing; east rail, east track. 397.3

Chatham, east side of tenth roof support from east end of station, train side; tablet (bench mark of the Massachusetts Topographical Survey Commission). 470.912

Chatham, in northeast corner of Masonic Block, about 3 feet from ground; aluminum tablet stamped "Albany 470". 470.990

Chatham, 1 mile north of, on west abutment of bridge 201, in top stone; bench 84 of the Massachusetts Topographical Survey Commission, marked by a hole and "B. S.", bottom of hole. 519.457

From Niverville southwest via Stuyvesant Falls to Hudson.

Niverville, near northwest corner of water tank, in brick about 4 feet from ground; bench mark of the Massachusetts Topographical Survey Commission, marked "B-O-M," center of hole. 322.936

Niverville, in southwest corner of brick water tank, 3 feet from ground; bronze tablet stamped "Albany 323". 322.924

Valatie, road crossing; west rail. 245

Kinderhook, 100 feet south of station, north side of highway, 10 feet west of track; top stone over drain. 259.02

Stuyvesant Falls, west end of bridge over Kinderhook Creek, in end of north wing wall; bronze tablet stamped "Albany 156". 156.376

Rossman station, road crossing 100 feet south of; east rail. 63.6

Stockport, road crossing just north of station; west rail. 47.0

Stottville, 150 feet north of station, road crossing; east rail. 125.4
PRECISE AND PRIMARY LEVELING.

LAKE BONAPARTE QUADRANGLE.

[Latitude 44°-44° 15'; longitude 75°-75° 15'.]

Leveling in 1914 by A. P. Meade, jr.

Near Bacon.

Bacon, 0.9 mile east of, in southeast corner of small railroad bridge; top end of bolt. Feet. 950.39
Bacon, 1.2 miles east of, 4 feet southeast of milepost 54, in rock; chiseled square painted "863". 966.37

Leveling in 1912 by H. S. Senseney.

From Carthage northeast along New York Central & Hudson River R. R. to Pitcairn, thence northwest along highways to Keene.

Rogers, opposite dairy; top of rail. 846.6
Karter switch, at road crossing; top of east rail. 902.0
North Croghan, 50 feet north of crossing, 15 feet west of track, in ledge; aluminum tablet stamped "Prim. Trav. Sta. No. 5, 1908, 880". 879.828
North Croghan, 1 mile northeast of, west side of track; spike in telegraph pole, painted "T. B. M. 853". 852.78
North Croghan, 1.1 miles northeast of, bridge over Indian River. 838.6
Indian River, surface of water, July 24, 1912. 825
Natural Bridge, in front of station, in base of semaphore; bolt painted white, painted "T. B. M. 837". 836.95
Natural Bridge, at crossing; top of rail. 837.5
Burnetts switch; top of rail. 821.5
Natural Bridge, 1.3 miles northeast of, 75 feet north of road crossing, 15 feet west of road, in ledge; bronze tablet stamped "857". 857.049
Natural Bridge, 2.3 miles northeast of, north side of track; chiseled square on ledge, painted "T. B. M. 853". 857.64
Diana, at road crossing; top of rail. 833.3
Diana, 75 feet west of water tank, north side of track; spike in telegraph pole, painted "T. B. M. 828". 829.34
Fitzgerald station, road crossing, west side of track; spike in telegraph pole, painted "T. B. M. 820". 820.29
Fitzgerald station, 0.5 mile east of, south side of track, in cement culvert; bronze tablet stamped "796". 796.413
Fitzgerald station, 1.4 miles east of, north side of track; spike in telegraph pole, painted "T. B. M. 779". 778.68
Fitzgerald station, 2.7 miles east of, north side of track, at road crossing; spike in telegraph pole, painted "T. B. M. 776". 775.59
Lake Bonaparte, road crossing at station; top of rail. 772.5
Lake Bonaparte, 240 feet north of station, in concrete bridge over ditch; aluminum tablet stamped "Prim. Trav. Sta. No. 1, 771". 770.465
Lake Bonaparte, 1.1 miles east of station, east end of small trestle, north side of track; bolt painted white, painted "T. B. M. 775". 774.53
Lake Bonaparte, 2 miles east of station, 60 feet east of road crossing, north side of track; spike in telegraph pole, painted "T. B. M. 773". 772.85
Harrsville, at road crossing west of station; top of rail. 780.1
<table>
<thead>
<tr>
<th>Location</th>
<th>Details</th>
<th>Coordinates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harrisville, Main Street crossing, north side of track, 1 foot west of boardwalk; top of iron post marked “C”</td>
<td>92 SPIEIT LEVELING IN NEW YORK, 1896–1905, 1912–1916.</td>
<td>792.67 Feet</td>
</tr>
<tr>
<td>Harrisville, east end of highway bridge over Oswegatchie River, south side of road in cement walk; aluminum tablet stamped “Prim. Trav. Sta. No. 3, 813”</td>
<td>813.154</td>
<td></td>
</tr>
<tr>
<td>Harrisville 1 mile east of, north side of track; spike in telegraph pole, painted “T. B. M. 837”</td>
<td>836.58</td>
<td></td>
</tr>
<tr>
<td>Bacon station, 75 feet east of road crossing, 20 feet south of track, in ledge; bronze tablet stamped “894”</td>
<td>894.410</td>
<td></td>
</tr>
<tr>
<td>Pitcairn, 0.2 mile west of, southwest corner of T road south; copper b. m. nail in root of tree, painted “T. B. M. 777”</td>
<td>776.51</td>
<td></td>
</tr>
<tr>
<td>Pitcairn, 1.5 miles northwest of, in front of vacant house, north side of road; copper nail in root of cherry tree, painted “T. B. M. 769”</td>
<td>768.90</td>
<td></td>
</tr>
<tr>
<td>Oswegatchie River, bridge over</td>
<td>754.3</td>
<td></td>
</tr>
<tr>
<td>Oswegatchie River, surface of water, Aug. 7, 1912</td>
<td>740.3</td>
<td></td>
</tr>
<tr>
<td>Harrisville, 2 miles north of, 800 feet north of Maynard’s Corners, west side of road; painted circle on rock, painted “T. B. M. 768”</td>
<td>768.02</td>
<td></td>
</tr>
<tr>
<td>Harrisville, 2.5 miles north of, 700 feet south of Geer’s Corners, east side of road, in culvert; bronze tablet stamped “765”</td>
<td>765.351</td>
<td></td>
</tr>
<tr>
<td>Harrisville, 5 miles north of, 0.4 mile north of Leonard’s Corners, rear of William Leonard’s house; copper nail in apple tree; painted in front of house “T. B. M. 781”</td>
<td>781.156</td>
<td></td>
</tr>
<tr>
<td>Harrisville, 6 miles north of, 1.5 miles north of Leonard’s Corners, east side of road; chiseled square on ledge, painted “T. B. M. 800”</td>
<td>799.73</td>
<td></td>
</tr>
<tr>
<td>Harrisville, 6.5 miles north of, 0.2 mile south of Davis Demerit’s house, 15 feet west of forks in road, in ledge; bronze tablet stamped “797”</td>
<td>796.549</td>
<td></td>
</tr>
<tr>
<td>Harrisville, 8 miles north of, 25 feet north of forks in road near Mr. Fuller’s house; copper nail in stump, painted “T. B. M. 794”</td>
<td>793.88</td>
<td></td>
</tr>
<tr>
<td>Harrisville, 9 miles north of, 1 mile south of Russell turnpike, at forks in road, opposite house; copper nail in root of tree, painted “T. B. M. 710”</td>
<td>710.02</td>
<td></td>
</tr>
<tr>
<td>Keenes station, 7 miles southeast of, at Kellogg’s Corners, In concrete front of store; bronze tablet stamped “663”</td>
<td>662.601</td>
<td></td>
</tr>
<tr>
<td>Kellogg’s Corners, 2.2 miles west of, north side of road; copper nail in root of tree, painted “T. B. M. 639”</td>
<td>638.63</td>
<td></td>
</tr>
<tr>
<td>Keenes station, 6 miles southeast of, at Rices Corners, on top of boundary monument marked “St. Lawrence, Jefferson, and Lewis counties”; painted “T. B. M. 644”</td>
<td>644.11</td>
<td></td>
</tr>
<tr>
<td>Keenes station, 5.5 miles southeast of, 0.4 mile northwest of Rices Corners (monument in plain sight), east side of bridge over creek, in south abutment; bronze tablet stamped “610”</td>
<td>609.411</td>
<td></td>
</tr>
<tr>
<td>Keenes station, 2.5 miles east of, at Steele’s Corners; painted circle on rock, marked “584.15”</td>
<td>583.69</td>
<td></td>
</tr>
<tr>
<td>Keenes station, 150 feet southwest of hotel, 66 feet south of center of highway, in lower end of granite outcrop; aluminum tablet stamped “465”</td>
<td>465.577</td>
<td></td>
</tr>
</tbody>
</table>

From Harrisville southeast along highway to Middle Branch, thence southwest to Indian River.

Harrisville, 1.1 miles south of, 500 feet south of M. Mannigan’s house, west side of road; chiseled mark on ledge, painted “T. B. M. 911” | 910.87 |
PRECISE AND PRIMARY LEVELING.

Harrisville, 2 miles south of, on road to Jerden Falls, west end of John Boesch's front yard; copper nail in root of tree, painted "T. B. M. 873"--------------------------------------------- 872.93

Harrisville, 3.5 miles south of, on road to Jerden Falls, in front of Mr. Edgar Manlie's house, in cement base of pump; bronze tablet stamped "872"--------------------------------------------- 871.583

Harrisville, 4 miles south of, on road to Jerden Falls, on summit of hill, west of Middle Branch schoolhouse, west side of road; copper nail in root of tree, painted "T. B. M. 902"--------------------------------------------- 902.33

Middle Branch schoolhouse, 0.5 mile west of, 500 feet west of T road north, 70 feet south of road, in ledge; aluminum tablet stamped "Prim. Trav. Sta. No. 2, 872"--------------------------------------------- 872.299

Middle Branch schoolhouse, 1.6 miles south of, on road to Jerden Falls, 70 feet east of cement culvert, north side of road; copper nail in root of tree, painted "T. B. M. 910"--------------------------------------------- 910.27

Middle Branch schoolhouse, 2.7 miles south of, on road to Jerden Falls, 100 feet north of Andrew McRobbie's house, west side of road, on ledge; chiseled square painted "T. B. M. 964"--------------------------------------------- 963.48

Middle Branch schoolhouse, 2.7 miles south of, on road to Jerden Falls, 350 feet south of Andrew McRobbie's house, in cement culvert; bronze tablet stamped "938"--------------------------------------------- 938.058

Jerden Falls, 1.8 miles north of, 200 feet north of Fred Mersell's house, 70 feet east of road; chisel mark on ledge, painted "T. B. M. 940"--------------------------------------------- 940.06

Jerden Falls, 0.7 mile north of, east side of road, 50 feet north of abandoned house; copper nail in root of tree, painted "T. B. M. 932"--------------------------------------------- 932.25

Jerden Falls, bridge over west branch of Oswegatchie River, west end of south abutment; bronze tablet stamped "917"--------------------------------------------- 916.466

Indian River, 50 feet west of St. Anthony's Roman Catholic Church, in large boulder; bronze tablet stamped "954"--------------------------------------------- 954.424

LAKE PLACID QUADRANGLE.

[Latitude 44° 15'-44° 30'; longitude 73° 45'-74°.]

Primary leveling in 1901 by C. H. Semper.

Near Lake Placid.

Lake Placid, 0.4 mile south of station on road to Averyville, on west margin of road, in large rock; aluminum tablet stamped "1750 Ft. Covington 1901"--------------------------------------------- 1,750.339

LAKE PLEASANT QUADRANGLE.

[Latitude 43° 15'-43° 30'; longitude 74° 15'-74° 30'.]

Primary leveling in 1896 by Clark Brown, in 1898 by W. W. Gilbert, and in 1904 by L. E. Tucker.

From Piseco northeast along highway to Speculator.

Lake Pleasant, north side of stone jail, 6 inches east of northeast corner, 3.5 feet above ground; aluminum tablet stamped "1791 A"--------------------------------------------- 1,790.543

From Northville northwest along highway to Speculator.

Hope schoolhouse, district 4, 75 feet west of, boulder 15 feet north of road; copper bolt stamped "U. S. G. S. B. M. 832 Ft."--------------------------------------------- 823.311
Wells, Hosley House, in back yard of hotel, on rock 15 feet broad and 5 feet high; bronze tablet stamped "1026". 1,022.170

Wells, east end of abutment of covered bridge; chiseled circle and "B. M. B. X.". 988.62

Wells, 0.3 mile north of, patent line monument in yard of white house opposite road to east, in ground 15 feet southeast of house; stone marked "Δ" (triangle is 6 inches on each side). 1,018.00

Wells, 2.5 miles northwest of, angle of road to Hamilton Lake, 40 feet from each road, west of junction, boulder 6 feet high and 15 feet broad; chiseled circle stamped "B. M. S.". 1,593.24

Charley Lake, 25 feet southwest of schoolhouse opposite, in boulder 8 feet broad; copper bolt stamped "U. S. G. S. B. M. 1719". 1,714.685

Gilman Lake, white house opposite center of, 10 feet east of road at trail to Griffin; stone 100 feet south of building marked with chiseled circle above legend "B. M. C. K." (located 15 feet north of a stone marked in a similar manner with legend "B. M. C. J."). 1,730.28

From Benson Center northwest along road to point 1.5 miles south of Silver Lake, thence southwest to Arietta.

Silver Lake, 1.5 miles south of, on west bank of West Branch of Sacandaga River (Fly Stream) where crossed by Benson Center road, 10 feet north of Silver Lake trail, in large boulder; bronze tablet stamped "1865 Albany 1903 Adj.". 1,865.009

LASSELLSVILLE QUADRANGLE.

[Latitude 43°–43° 15'; longitude 74° 30'–74° 45'.]

Primary leveling in 1901 by William Kelley.

From St. Johnsville north along road via Oppenheim to Emmondsburg, thence west to Salisbury Center.

St. Johnsville, southwest corner of Grace Church (Christian), in water table; aluminum tablet stamped "360 Albany". 360.523

Oppenheim, southwest corner of brick residence of John P. Swartout, on the western side, in limestone water table; bronze tablet stamped "1110 Albany". 1,109.818

From Emmondsburg north to Oregon.

Stratford (Devereaux), near southwest corner of Crossman's Hotel, on southerly side, in foundation wall; bronze tablet stamped "1074 Albany". 1,074.472

From Oppenheim east along road via Garoga to Johnstown.

Lassellsville, southeast corner of D. C. Leek's store, in foundation wall, east face; aluminum tablet stamped "1153 Albany". 1,152.969

From Arietta south to Caroga Corners.

Arietta, 240 feet north of Alex. Baudin's Hotel, on west side of road, in bedrock; bronze tablet stamped "1696 Albany". 1,696.974

From Caroga Corners south to Garoga.

Rockwood, 0.67 foot from southeast corner of Caleb A. Long's residence, in south face of foundation wall; bronze tablet stamped "1045 Albany". 1,045.380
Primary leveling in 1896 by A. B. Pompe, in 1898 by Clark Brown, E. L. Faison, and M. S. McDiarmid.

From Little Falls east to Ingham Mills, thence north to Salisbury Center.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Little Falls, engineer's bench mark at lock 36, Erie Canal</td>
<td>343.487</td>
</tr>
<tr>
<td>Little Falls, southeast corner of Ann and Albany streets, northwest corner of brick building with stone foundation; aluminum tablet stamped &quot;397&quot;</td>
<td>397.118</td>
</tr>
<tr>
<td>Little Falls, 2 miles east of, Erie Canal lock 37, northeast corner; top of coping stone, chiseled cross</td>
<td>353.535</td>
</tr>
<tr>
<td>Manheim, in front of station; top of south rail</td>
<td>604.5</td>
</tr>
<tr>
<td>Inghams Mills, 27 feet east of Little Falls &amp; Dolgeville R. R. track, 120 feet north of road crossing, on rock in place 6 feet above ground; aluminum tablet stamped &quot;726A&quot;</td>
<td>726.870</td>
</tr>
</tbody>
</table>

From Salisbury Center west via Fairfield to Middleville.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Salisbury Center, brickwork in rear of Universalist Church; aluminum tablet stamped &quot;1065A&quot;</td>
<td>1,064.372</td>
</tr>
<tr>
<td>Salisbury Corners, church near northeast corner of crossroads, stone entrance, lower step, south end of face corner; chiseled square</td>
<td>1,214.22</td>
</tr>
<tr>
<td>Fairfield, Military Academy laboratory building, front of south end, in stonework 3 feet above ground; aluminum tablet stamped &quot;1278A&quot;</td>
<td>1,277.867</td>
</tr>
<tr>
<td>Fairfield, Military Academy laboratory building, front of south end, projection on corner stone 1 foot above ground; old bench mark marked &quot;1276.829 above tide at Troy&quot;</td>
<td>1,276.240</td>
</tr>
</tbody>
</table>

From Middleville north to Norway, thence east and south to Salisbury Center.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Middleville, 3.5 miles north of, 200 feet north of road to east by stone schoolhouse, east end of stone culvert; chiseled square</td>
<td>777.00</td>
</tr>
<tr>
<td>Norway, northwest corner of crossroads opposite hotel, west end of stone foundation of building, 1 foot from face corner; aluminum tablet stamped &quot;1320A&quot;</td>
<td>1,319.830</td>
</tr>
<tr>
<td>Salisbury Center, 5.5 miles north of, 80 feet north of Jerseyfield Lake road, in outcrop 1 foot from southeast corner of Willis Nichols's barn; aluminum tablet stamped &quot;1618A&quot;</td>
<td>1,618.535</td>
</tr>
<tr>
<td>Salisbury, 2.3 miles north of, at Curtis schoolhouse, east and west road crossing; stone step marked with circle</td>
<td>1,426.08</td>
</tr>
</tbody>
</table>

From Newport along the New York Central & Hudson River R. R. southeast to Middleville, thence south to Herkimer.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation (Feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>White Creek, iron bridge, on south abutment of bridge seat, east wing; chiseled square</td>
<td>632.77</td>
</tr>
<tr>
<td>City Brook, on south end of east parapet wall of stone arch, on coping stone; chisel mark</td>
<td>609.03</td>
</tr>
<tr>
<td>Canyon Brook, stone arch over, south end of east parapet wall, on coping stone; chiseled square</td>
<td>591.26</td>
</tr>
<tr>
<td>Middleville, West Canada Creek; north coping of west abutment of iron highway bridge, marked &quot;C&quot;</td>
<td>572.35</td>
</tr>
</tbody>
</table>

1 See Bull. 514, pp. 72-74, for other elevations.
Middleville, West Canada Creek, in coping of iron bridge, west abutment, north wing; copper bolt stamped “U. S. G. S. B. M. 572”.

Herkimer County poorhouse, in north corner of bottom of flagstone, front entrance; chiseled square.

Countryman station, Atlantic & St. Lawrence (Grand Trunk) R. R., bridge 10, north abutment, west wing wall, close to angle, on coping stone; chiseled square.

West Canada Creek, Dempsters Bridge, 0.5 mile north of Kast Bridge, north abutment, west wing; bridge seat marked “O.” B. M.

Herkimer waterworks, north door of pump house; northwest corner of doorstep, stamped “Q. B. M.”

Herkimer, county clerk’s office on Court Street, left of main entrance, in stone water table; aluminum tablet stamped “407 A”.

**LIVINGSTON MANOR QUADRANGLE.**

*Latitude 41° 45'-42°; longitude 74° 45'-75°.*

Leveling by Karl E. Schlachter in 1915.

From Horton southeast along New York, Ontario & Western Ry. to Roscoe, thence northeast along highway to Craigie Clair School near Beaver Kill.

Horton station, 0.6 mile east of, in foundation of semaphore 142½; chiseled square, “t. b. m. 1146.3”

Cooks Falls, 0.8 mile west of, 350 feet east of Grove siding, south margin of track, in ledge, 1.5 feet above ground; bronze tablet stamped “N. Y. 1160”

Cooks Falls station; top of south rail of westbound track.

Cooks Falls station, 0.7 mile east of, 560 feet west of mile post 140, in north end of stone culvert; chiseled circle painted “t. b. m. 1196.4”

Cooks Falls, 1.6 miles east of, in north end of central pier of railroad bridge 153; bronze tablet stamped “N. Y. 1220”

Roscoe station, 2.6 miles west of, 400 feet west of mile post 138, in south side of stone culvert; chiseled square painted “t. b. m. 1238.7”

Roscoe station, 1.6 miles west of, in ledge, south margin of track, opposite mile post 137; chiseled circle painted “t. b. m. 1263.6”

Roscoe station, 0.4 mile west of, in north end of east pier of railroad bridge 151; bronze tablet stamped “N. Y. 1280”

Roscoe, in front of station; top of rail.

Roscoe station, 1.1 miles north of, 100 feet north of old Rockland post office, top of hydrant painted “t. b. m. 1296.2”

Beaver Kill bridge, in east end of central pier; bronze tablet stamped “N. Y. 1332”

Beaver Kill bridge, 0.6 mile northeast of, at Spring Brook corner, in stone at bottom of stone wall, north of road; chiseled square painted “t. b. m. 1350.3”

Beaver Kill bridge, 1.2 miles northeast of, 50 feet east of water trough, in ledge, east margin of road; chiseled square painted “t. b. m. 1367.9”

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1 See Bull. 514, pp. 35-36, for other elevations.
PRECISe AND PRIMARY LEVELING.

Craigie Clair School, 700 feet south of, in northwest abutment of highway bridge over Beaver Kill; bronze tablet stamped “N. Y. 1415” 1,414.693

LOCKPORT QUADRANGLE. 1

[Latitude 43°-43° 15'; longitude 78° 30'-78° 45'.]

Primary leveling in 1896 by E. L. McNair.

At Gasport.

Gasport, Erie Canal bridge 152, in north end of east abutment; copper bolt stamped “521 ft.” 520.256

From Lockport southeast to Dysinger Corners, thence north to Orangeport.

Lockport, in front of Niagara County courthouse, east of main door, Niagara Street entrance; bronze tablet stamped “616 ft.” 615.183

Dysinger Corners, William Dysinger's red barn, in southwest corner of foundation; bronze tablet stamped “628 ft.” 627.697

McNalls Corners, on northwest corner of road crossing, southeast corner of doorstep of large brick house; chiseled square 659.01

At Pendleton.

Pendleton, Sulphur Springs guard lock bridge 168, in north end of east pier; copper bolt stamped “582 ft.” 581.160

Bench marks set from old railroad levels, corrected (value doubtful).

Transit (East Amherst post office), 700 feet west of station, Batavia & Tonawanda branch of New York Central & Hudson River R. R., south side of bridge 119, in west abutment next to lower step; copper bolt stamped “587” 588.554

East Clarence, 2,400 feet east of, Batavia & Tonawanda branch of New York Central & Hudson River R. R., bridge 114, at south end of east abutment, in coping stone; copper bolt stamped “639” 638.070

LONG EDDY QUADRANGLE.

[Latitude 41° 45'-42°; longitude 75°-75° 15'.]

Precise leveling in 1900 by C. H. Semper.

From Lordville southeast along Erie R. R. to Callicoon.

Lordville, opposite milepost “J. C. 153 B. 271,” northbound track; top of rail 869.3

Lordville, at railroad station, suspension bridge over Delaware River, in face of north abutment; bronze tablet stamped “865 Albany 1900” 865.915

Long Eddy, 400 feet north of station, girder bridge, east side of south abutment, in top of bridge seat; bronze tablet stamped “834 Albany 1900” 835.195

Long Eddy, in front of station, northbound track; top of rail 836.7

1 See Bull. 514, pp. 97-98, for other elevations.

104787°—Bull. 671—18—7
Hankins, in front of station, northbound track; top of rail 807.5

Hankins, 1 mile south of, 100 feet west of milepost "J C 141," south side of railroad, in west abutment of small bridge over creek; aluminum tablet stamped "801 Albany 1900" (permission granted to A. D. Parsons March 31, 1915, for moving this mark) 802.015

Callicoon, in front of station, northbound track; top of rail 782.3

Callicoon, 900 feet south of station, railroad girder bridge over Delaware River, top of north abutment, east side; bronze tablet stamped "780 Albany 1900" 780.633

**Leveling in 1915 by Karl E. Schlachter.**

From Cadosia east along New York, Ontario & Western Ry. to Horton.

Cadosia, 2.8 miles east of, in north side of top of concrete foundation at semaphore 157; bronze tablet stamped "N. Y. 961" 961.442

Tyler's siding, 2 miles west of Fish's Eddy, in north side of east abutment of New York, Ontario & Western Ry. bridge 168; chiseled circle painted "t. b. m. 958.3" 958.32

Fish's Eddy, 1 mile west of, in south side of concrete foundation of New York, Ontario & Western semaphore 155; chiseled circle painted "t. b. m. 978.6" 978.71

Fish's Eddy, in east abutment of railroad bridge 165, between northbound and southbound tracks; bronze tablet stamped "982" 981.770

Fish's Eddy, opposite crossing signal at station; top of rail 989.1

East Branch, 2.1 miles west of, on concrete foundation of New York, Ontario & Western semaphore 153; chiseled circle painted "t. b. m. 990.5" 990.67

East Branch, 0.9 mile west of, 650 feet west of semaphore 1514, in ledge, in south margin of track; chiseled circle painted "t. b. m. 1,007.9" 1,008.11

East Branch, in northeast corner of concrete foundation of railroad water tank; bronze tablet stamped "N. Y. 1,007" 1,007.124

East Branch, 1.1 miles east of, 120 feet east of road crossing at sawmill, in ledge, south margin of track; chiseled circle painted "t. b. m. 1,029.6" 1,029.86

Trout Brook station, 520 feet west of, in north end of west abutment of railroad bridge 160; chiseled square painted "t. b. m. 1,038.3" 1,038.59

Trout Brook, in front of station; top of rail 1,041.0

Trout Brook station, 1.3 miles east of, 550 feet east of milepost 147, in ledge, south margin of track; bronze tablet stamped "N. Y. 1,074" 1,074.723

Elk Brook station, top of north rail of eastbound track, at road crossing 1,090.5

Chiloway station, 0.7 mile west of, in foundation of semaphore 145; chiseled square painted "t. b. m. 1,096.3" 1,096.62

Chiloway station, 65 feet east of, in east end of north side of railroad culvert 159; bronze tablet stamped "N. Y. 1106" 1,106.670

Horton station, 0.5 mile west of, in north side of culvert 157; chiseled square painted "t. b. m. 1,127.6" 1,127.90

Horton station; top of north rail of westbound track 1,140.9
PRECISE AND PRIMARY LEVELING.

LONG LAKE QUADRANGLE.

[Latitude 44°–44° 15′; longitude 74° 15′–74° 30′.]

Primary leveling in 1899 by C. B. Bailey and W. W. Gilbert.

From Tupper Lake Junction east along road to Wawbeek, thence south to Long Lake.

Tupper Lake Junction, New York Central & Hudson River R. R., Adirondack division, in foundation to water tank; aluminum tablet stamped “1555 Albany” .................................................. 1,556.031

Tupper Lake, 3.75 miles east of, north side of road at crossing of Cornell forestry west line, on top of large boulder 6 feet high; chiseled square ................................................................. 1,570.88

Raquette Falls, 150 feet west of Martin Talbot’s, in boulder; aluminum tablet stamped “Albany 1574” ................................. 1,574.634

Long Lake, island in lower end of, 120 feet west of Island House, owned and occupied by Amos Robinson, in top of boulder; aluminum tablet stamped “1638 Albany” ............................................ 1,638.211

From point 4 miles west of Newcomb, north to Catlin Lake (single-spur line).

Catlin Lake, Caughnawaga Club House, 50 feet east of boathouse, large rock at edge of lake; aluminum tablet stamped “1603 Covington 1901” ................................................................. 1,603.091

From Tupper Lake south via Moody to Jenkins Pond (single-spur line).

Tupper Lake, 2.2 miles south of, at Simons Pond, end of iron bridge over Raquette River, east side; top of large bolt holding bridge plate on caisson pier .................................................. 1,554.56

Tupper Lake, 10.6 miles south of, foot of Jenkins Pond, Litchfield Park, 50 feet east of farmhouse, at entrance to barn; aluminum tablet stamped “1748 Covington 1901” .................................................. 1,757.778

From Long Lake to point 5 miles northwest.

Long Lake, 5 miles northwest of, 250 feet north of Big Brook, 12 feet east of road, west face of large boulder; aluminum tablet stamped “1722 Albany” .................................................. 1,720.965

LOWVILLE QUADRANGLE.¹

[Latitude 43° 45′–44°; longitude 75° 15′–75° 30′.]

Precise leveling in 1900 by C. H. Semper.

At Lowville.

Lowville station, 1,000 feet south of, railroad bridge 756 over creek and highway, west side north abutment; bronze tablet stamped “863 Albany 1900” (found in 1910 to be an aluminum tablet marked “864.529”) .................................................. 864.520

Lowville, in front of station; top of rail .................................................. 868.8

¹ See Bull. 514, pp. 24–27 for other elevations.
LUZERNE QUADRANGLE.

[Latitude 43° 15'-43° 30'; longitude 73° 45'-74°.]

Precise leveling in 1899 by E. L. McNair.

From Hadley north along Delaware & Hudson R. R. to Thurman.

Hadley, 1.5 miles south of, at northeast corner of stone culvert, about 600 feet west of red house on west side of highway, in coping stone; aluminum tablet stamped “634 Albany 1899”_________________ 634.309

Hadley, 3.25 miles north of, at northwest corner of steel-girder bridge 9 over Wolf Creek, in coping stone of bridge seat; aluminum tablet stamped “630 Albany 1899”__________________ 630.458

Stony Creek, 0.4 mile south of, at northwest corner of steel-girder bridge 10 over Stony Creek, in coping stone of bridge seat; aluminum tablet stamped “600 Albany 1899”_________________ 600.427

Thurman, 1.25 miles north of station, at west end of south abutment of steel-girder bridge 13, in coping stone; aluminum tablet stamped “628 Albany 1899”__________________ 627.774

Primary leveling in 1899 by J. E. Thomas.

From Hadley west to Day, thence south to Edinburg.

Hadley, northwestern corner of G. West’s paper mill; aluminum tablet stamped “613 Albany”_________________________ 613.917

Hadley, 5.75 miles southwest of, 1,500 feet north of road, east side of lower river road leading to Conklingville, on boulder at intersection; old State bench mark, chiseled “B. M. 11”______________________ 628.84

Conklingville, west end of south abutment of iron bridge over Sacandaga River; bronze tablet stamped “726 Albany”_________ 726.049

From West Day east to Efner Lake (single-spur line).

Day Center, 3 miles southeast of, on Lake road, near house owned and occupied by John S. Kinney, in ledge of rock; bronze tablet stamped “1009 Albany”________________________ 1,009.590

From Hadley north to Warrensburg, thence west to Thurman.

Luzerne, on stepping stone in front of Catholic Church; chisel mark______________________ 665.03

Luzerne, 4.5 miles northeast of, west side of Warrensburg road, 300 feet south of house at edge of woods, in ledge of rocks; bronze tablet stamped “834 Albany”_____________________ 834.025

Warrensburg, on Main Street, in southeast corner of stone building used as post office; bronze tablet stamped “749 Albany”__________ 749.022

From Stony Creek to Knowlhurst.

Stony Creek, 0.4 mile south of, at northwest corner of steel-girder bridge 10 over Stony Creek, in coping stone of bridge seat; aluminum tablet stamped “600 Albany 1899”_________________ 600.427
LYON MOUNTAIN QUADRANGLE.

[Latitude 44° 30'-44° 45'; longitude 73° 45'-74°.]

Primary leveling by George Seidel in 1903.

At Twin Pond.

Twin Pond, Delaware & Hudson R. R. station, 100 feet west of, south wing of west abutment of railroad bridge; aluminum tablet stamped "1443 Ft. Covington 1903". Feet. 1,442.824

Twin Pond, Delaware & Hudson R. R. b. m. "2078+82," cross cut into south corner of parapet abutment. Feet. 1,442.91

Leveling by J. M. Perkins in 1911.

From Twin Pond along Delaware & Hudson R. R. northeast to point north of Chazy Lake post office, thence south and east to Russia station.

Twin Pond, 0.8 mile east of, 12 feet south of center of track, in west end of concrete culvert cap; painted square on top, marked "1506". Feet. 1,505.97

Staudish, 100 feet west of, opposite section house, at southwest corner of railroad water standpipe, on concrete base; marked "1578.3". Feet. 1,578.27

Staudish, 0.7 mile east of, on south abutment of concrete culvert, 6 feet west of center of track; aluminum tablet stamped "1598". Feet. 1,597.880

Lyon Mountain, 185 feet west of, south wing of east abutment of railroad bridge over brook, 11 feet from center of track; aluminum tablet stamped "1753". Feet. 1,753.247

Bradley Pond switch, 200 feet east of; top of concrete culvert, marked "1712". Feet. 1,711.90

Lyon Mountain, 2.7 miles northeast of, on Delaware & Hudson R. R.; top of concrete culvert, marked "1715.3". Feet. 1,715.12

Lyon Mountain, 3 miles northeast of, on southeast end of south abutment of concrete culvert, near junction of railroad sections 7 and 9, 12 feet from center of track; aluminum tablet stamped "1715". Feet. 1,714.918

Chazy Lake, 215 feet north of, on east side of concrete railway bridge over brook, 10 feet from center of track; aluminum tablet stamped "1605". Feet. 1,604.805

Russia, 3.3 miles west of station, on west end of concrete culvert, 14 feet from center line of location of track; aluminum tablet stamped "1598". Feet. 1,597.476

Russia, 110 feet east of station, in top of concrete culvert, 11 feet from center of main track of Delaware & Hudson R. R.; aluminum tablet stamped "1489". Feet. 1,488.587

From Picketts Corners southwest along highway to point near Merrillville.

Picketts Corners, on rock in yard of F. Bresett, 2 feet from fence line and 40 feet from corner of store; aluminum tablet stamped "801". Feet. 799.548

Saranac Hollow, on stone post at fence corner near intersection of Redford road and road to Burnt Hill; drill hole in top of stone marked "778.0". Feet. 776.87

Moffitsville, west end of wooden bridge over Saranac River; elevation painted on large stone marked "797.6" at south side of bridge. Feet. 796.55

* The true elevation of this bench mark may be 1 foot greater.
Moffitsville, 0.5 mile west of, in grass plot between two roads from Moffitsville to Redford; drill hole in top of stone marked "926.9"— 925.80

Moffitsville, 1.7 miles west of, near intersection of Saranac and Redford (old plank) roads with road passing Patrick Moore's house, 5 feet east of center of former road and 100 feet north of center line of latter, in granite stone in wall; aluminum tablet stamped "1125"— 1,123.592

Redford, 0.5 mile south of, besides Clayburg road, at forks opposite road that crosses Saranac River on iron bridge; point on rock marked "1097.3"— 1,096.28

Redford, 1.1 miles south of, at road corner, 9 feet from corner of fence; square cut in top of rock marked "1108.8"— 1,108.76

Clayburg, on northwest corner of north abutment of iron bridge over Saranac River; aluminum tablet stamped "1119"— 1,117.561

Clayburg, 0.25 mile north of, on Cold Brook road at road corner; square cut on small stone marked "1132.0"— 1,130.95

Clayburg, 2.3 miles north of, opposite Ans's store; point on rock marked "1135.9"— 1,134.90

Cold Brook, on south abutment of west wall of iron bridge over north branch of Saranac River where Cold Brook enters; aluminum tablet stamped "1145"— 1,144.089

Cold Brook, by roadside in front of schoolhouse; point on rock marked "1167.4"— 1,166.48

Cold Brook, 1 mile west of, 200 feet west of Mrs. P. Hanlon's residence, 12 feet south of road; point on stone marked "1192.3"— 1,192.23

Cold Brook, 3.2 miles west of, at road corner, in boulder opposite school 12; aluminum tablet stamped "1365"— 1,364.086

Sugar Bush, 1 mile north of post office, at road corner, near fence corner; square cut in top of boulder marked "1570.8"— 1,569.88

Sugar Bush, 0.8 mile south of, at fork in roads, in rock in grass triangle between Alderbrook road and road to Merrillville; aluminum tablet stamped "1616"— 1,614.677

Merrillville, 1.4 miles east of guide boards, at road corner; square cut in top of boulder marked "1501.2"— 1,500.35

Vermontville, 5.6 miles north of, 4.3 miles south of Chases road crossing, in large boulder; aluminum tablet stamped "1776"— 1,776.288

From Disco along highways west to Alderbrook.

Disco, 2.1 miles south of post office, at road corner; square cut in top of stone, marked "1191.7"— 1,190.57

Goodriches Mills, between district school 8 and road corner, in a stone in field, 200 feet from school and 50 feet from road; aluminum tablet stamped "1151"— 1,149.801

Goodriches Mills, 1.8 miles west of, in front of house of M. Yelle; point on stone marked "1220.8"— 1,218.89

Goodriches Mills, 2.7 miles west of, at road corner, in front of residence of M. Tearney; square cut in top of stone, marked "1291.8"— 1,290.68

Silver Lake, 2.3 miles east of, at road corner, on stone in field near stone wall at north side of road, 100 feet west of road corner; aluminum tablet stamped "1514"— 1,513.176

Hawkeye (Silver Lake), in front of hotel near boathouse; point on rock marked "1402.6"— 1,401.57

Silver Lake; surface of water, August 21, 1911— 1,393.3
PRECISE AND PRIMARY LEVELING.

Hawkeye, 1.4 miles west of, 150 feet east of road corner, on north side of road, in boulder; aluminum tablet stamped "1542" 1,541.111 Feet.

Union Falls, on west wing wall of concrete dam, under gate house; square cut in concrete, marked "1398.8" 1,397.70

Alderbrook, 0.2 mile east of post office, in front of church, near cemetery gate, on boulder; aluminum tablet stamped "1607" 1,606.172

Alderbrook, 0.2 mile east of post office, at road corner near yellow schoolhouse; point on stone marked "1534.7" 1,533.61

Alderbrook, 1.2 miles west of, on boulder at road corner; square cut with drill hole in center, on top of rock marked "1347.5" 1,346.43

Alderbrook, 2.8 miles west of, at road corner; point on boulder marked "1501.2" 1,500.35

MACEDON QUADRANGLE.

[Latitude 43°-43° 15'; longitude 77° 15'-77° 30'.]

Primary leveling in 1898 by C. H. Semper.

From Forestlawn east along highway to Ontario.

Union Hill station, road crossing near; top of rail 425.7

Lakeside, on west wall of railroad culvert, north side of track, 600 feet west of station, on top step; chiseled square 421.56

Lakeside, highway crossing east of; top of rail 424.0

Ontario Center, 0.6 mile east of, in southeast corner of cellar wall of Ontario Union school; bronze tablet stamped "447 Oswg." 447.670

Ontario, in front of station; top of rail 414.6

From Webster south along highway to Fairport.

Webster, at northeast corner of Union Academy building, in water table; aluminum tablet stamped "465 Oswgo" 466.225

Fairport, Main Street, New York Central & Hudson River R. R.; top of rail 455.8

Fairport, Main Street, West Shore R. R.; top of rail 455.6

Fairport, Union school, in water table of Church Street front; aluminum tablet stamped "498 Oswgo" 498.983

From Ontario south via Walworth to Palmyra.

Walworth, at northwest corner of Walworth Academy building, in water table; aluminum tablet stamped "564 Oswgo" 564.785

Palmyra, 1 mile west of, Mud Creek aqueduct, in buttress of south wing of west abutment; aluminum tablet stamped "446 Oswgo" 446.625

From Fairport south to Bushnell Basin.

Bushnell Basin, bridge 50 over Erie Canal, towpath abutment, inner face of west wing; bronze tablet stamped "465 Oswgo" 435.759

MCKEEVER QUADRANGLE.1

[Latitude 43° 30'-43° 45'; longitude 75°-75° 15'.]

Primary leveling in 1897 by Clark Brown, and in 1898 by C. H. Semper.

From Forestport north to White Lake.

White Lake station, 2 miles south of, near Nicholl's mills, on face of coping, at northwest corner of railroad bridge over Bear Creek; chiseled square 1,370.08

1 See Bull. 514, pp. 23-24, for additional elevations.

From White Lake northeast along New York Central & Hudson River R. R. via McKeever to Fulton Chain.

White Lake station, 50 feet west of railroad, 10 feet north of wagon road, in boulder 5 feet broad; copper bolt stamped "1421 A"... 1,420.664
White Lake station, 2.5 miles north of, 100 feet north of White Granite Co.'s switch, west of track at foot of embankment; iron staple in boulder 20 feet broad... 1,456.819
McKeever, 600 feet south of station, west of track, in rock in cut; copper bolt stamped "U. S. G. S. 1544 Ft. B. M."... 1,543.828
McKeever, 2 miles north of, iron railway bridge 6 (20-foot span), northwest wing, near face corner end of coping; chiseled square... 1,559.12
McKeever, 3.5 miles north of, at railroad bridge 37 (90-foot span) over Moose River, 1 foot from girder, north abutment, west end on face angle; chiseled square... 1,641.34
Minnehaha station, Moose River bridge, north end, east end of parapet, on corner; chiseled square... 1,681.39
Fulton Chain station, 3 miles southwest of, 500 feet north of house, south end of culvert, on north end of parapet; chiseled square... 1,714.28

From White Lake east to North Lake (Atwell post office).

North Lake (Atwell), 6.3 miles northwest of, at junction of road to Woodhull Lake; aluminum tablet in top of rock stamped "1947 A"... 1,947.329
Woodhull, in front of gate house, in line with back edge of dam; 1/4-inch copper bolt... 1,883.072

MALONE QUADRANGLE.

[Latitude 44° 45'-45°; longitude 74° 15'-74° 30'.]

Leveling in 1913 by A. J. Kavanagh.

Near Malone Junction on Rutland R. R.

Malone Junction, 0.97 mile east of, 60 feet east of road crossing, on north side of stone culvert; chiseled square painted "U. S. T. B. M. 750.9"... 750.50

From point north of Constable south along New York Central & Hudson River R. R. to Whippleville.

Constable, 2.76 miles north of station, top of east support of milepost M. 8; chiseled cross painted "U. S. T. B. M. 339"... 338.74
Constable, 1.74 miles north of station, top of east support of milepost M. 7; chiseled cross painted "U. S. T. B. M. 383.4"... 383.00
Constable, 0.77 mile north of station, at north end of high trestle bridge, in top of stone of northwest abutment; bronze tablet stamped "404"... 403.210
Constable, 0.25 mile north of station, on east side of wooden compass, in top timber; copper nail and washer painted "U. S. T. B. M. 412.4"... 411.96
Constable, 0.72 mile south of station, on northwest corner of railroad bridge, top of coping stone; chiseled square painted "U. S. T. B. M. 462"... 461.39
Malone Junction, 3.62 miles north of, 0.41 mile south of milepost M-4, 50 feet east of track, in sandstone boulder; bronze tablet stamped "512"... 511.144
PRECISE AND PRIMARY LEVELING.

Malone Junction, 2.25 miles north of, on railroad bridge over Trout River, on northwest abutment on top of concrete course; chiseled square painted "U. S. T. B. M. 550.9" .......................... Feet. 559.50

Malone Junction, 1.04 miles north of, 250 feet north of road crossing, on top of west support of milepost M-1; chiseled cross painted "U. S. T. B. M. 689" ........................................ 679.71

Malone Junction, 245 feet west of cross tracks, opposite corner of street to north, in large granite boulder at foot of telegraph pole; bronze tablet stamped "739" ........................................ 738.824

Malone Junction, in front of station; top of cross tracks marked "741.6" ........................................ 741.2

Malone Junction, 1.01 miles south of, on New York Central R. R., on northwest corner of culvert; chiseled square painted "U. S. T. B. M. 818.9" ........................................ 818.48

Malone Junction, 2.38 miles south of, on New York Central R. R., 90 feet north of milepost 11-171, on northwest wing of stone cow pass; chiseled square painted "U. S. T. B. M. 940" ......................... 939.62

Whippleville, 1 mile north of station, 0.25 mile north of milepost 4-170, in west side concrete dry bridge; bronze tablet stamped "1010" ........................................ 1,009.351

Leveling in 1914 by H. S. Senseney.

From Malone west along Rutland R. R. to Brushton.

Malone Junction, 245 feet west of cross tracks, opposite corner of street to north, in large granite boulder at foot of telephone pole; bronze tablet stamped "739" .......................... 738.824

Malone, opposite Rutland station, south side of track, in telephone pole; spike marked "U. S. B. M. 715" ........................................ 714.67

Malone, 1.4 miles west of, on west end of south abutment of highway bridge over railroad; chiseled square marked "U. S. B. M. 701" ........................................ 701.03

Malone, 2.3 miles west of, north side of track, in culvert; bronze tablet not stamped ........................................ 674.302

Malone, 3.7 miles west of, south side of track, in telephone pole; spike marked "U. S. B. M. 643" ........................................ 642.87

Malone, 4.8 miles west of, south side of track, in telephone pole; spike marked "U. S. B. M. 618" ........................................ 617.28

Bangor, front of station; top of south rail ........................................ 576.8

Bangor station, 400 feet west of, north side of tracks, in culvert; bronze tablet not stamped ........................................ 575.189

Bangor station, 1.4 miles west of, south side of track, in telephone pole; spike marked "U. S. B. M. 545" ........................................ 544.99

Bangor station, 2.7 miles west of, 50 feet east of road crossing, south side of track, in telephone pole; spike marked "U. S. B. M. 514" ........................................ 513.43

Bangor station, 3.5 miles west of, north side of track, 25 feet east of private road crossing, in ledge; bronze tablet not stamped ........................................ 495.818

Bangor station, 4 miles west of, 60 feet west of road crossing, south side of track, in telephone pole; spike marked "U. S. B. M. 487" ........................................ 486.54

Bangor station, 5.2 miles west of, 100 feet east of private road crossing, south side of track, in telephone pole; spike marked "U. S. B. M. 461" ........................................ 460.68

From point 2 miles east of Brushton south, east, and north along highway via Skerry to Malone.

North Bangor, about 3 miles southwest of, 1.1 miles south of railroad, east side of road, on culvert; chiseled square marked “U. S. B. M. 570” —— 570.25

West Bangor, about 2 miles northwest of, 200 feet south of Little Salmon River, at southwest corner of forks of roads, in culvert; bronze tablet stamped “605” ———— 604.459

West Bangor, about 1.5 miles west of, at northwest corner of road forks, on ledge; chiseled square marked “U. S. B. M. 757” ———— 757.12

West Bangor, about 2 miles west of, north side of road at T road to south, on ledge; chiseled square marked “U. S. B. M. 787” ———— 786.82

West Bangor, about 2.5 miles southwest of, on “Bangor-Brandon” town line, east side of road, in culvert; bronze tablet stamped “N. Y. 828” ———— 827.523

Skerry, 5.1 miles west of, 60 feet west of road forks, south side of road, on ledge; chiseled square marked “U. S. B. M. 931” ———— 931.15

Skerry, 4 miles west of, at southeast corner of crossroads, on ledge; chiseled square marked “U. S. B. M. 987” ———— 986.64

Skerry, 3 miles west of, 60 feet southwest of crossroads, in ledge; bronze tablet stamped “1,000” ———— 1,000.010

Brandon Center, in front of church, on ledge; chiseled square marked “U. S. B. M. 1041” ———— 1,041.09

Skerry, 1.5 miles west of, 15 feet north of crossroads, in triangle, on ledge; chiseled square marked “U. S. B. M. 1121” ———— 1,120.89

Skerry, 300 feet south of church, west side of road, in boulder; bronze tablet stamped “Prim. Trav. Sta. No. 1 1086 1914” ———— 1,086.060

Skerry, 0.9 mile east of, north side of road, on summit of hill, on ledge; chiseled square marked “U. S. B. M. 1277” ———— 1,276.96

Skerry, 2.4 miles east of, 40 feet southwest of crossroads, on ledge; chiseled square marked “U. S. B. M. 1304” ———— 1,304.31

Skerry, 3.9 miles northeast of, 100 feet southwest of crossroads, in boulder; bronze tablet stamped “1277” ———— 1,276.714

Malone, 5.4 miles south of, 50 feet west of Lake Titus road, on northeast corner of bridge; painted bolthead marked “U. S. B. M. 1184” — 1,183.61

Malone, 4 miles south of, west side of road, on ledge; chiseled square marked “U. S. B. M. 1082” ———— 1,081.85

Malone, 2.7 miles south of, 200 feet north of road forks, west side of road, in ledge; bronze tablet stamped “N. Y. 980” ———— 980.312

Malone, 1.8 miles south of, east side of road, in root of spruce tree; copper nail, marked “U. S. B. M. 933” ———— 933.07

Malone, east side of “Webster” Street, 35 feet north of “Woodward” Street, in wooden post; copper nail, marked “U. S. B. M. 849” ———— 849.31

Malone, west side of entrance of county clerk’s office, in stone step; bronze tablet stamped “N. Y. 730 1914” ———— 729.501

From point 2 miles east of Brushton north and east along highway to Westville, thence southeast to point 2.3 miles west of Malone.

Cook Corners, about 2 miles southwest of, at southeast corner of road forks, on boulder; chiseled square marked “U. S. B. M. 422” ———— 422.16
Cook Corners, about 1 mile southwest of, at northwest corner of crossroads, on ledge; chiseled square marked "U. S. B. M. 361". 361.00 Feet.

Cook Corners, 0.9 mile west of, north side of road, opposite road to south, in ledge; bronze tablet stamped "N. Y. 304". 303.887

Cook Corners, southwest corner of, on culvert; chiseled square marked "U. S. B. M. 315". 315.05

Cook Corners, 1.2 miles north of, east side of road, on culvert; chiseled square marked "U. S. B. M. 321". 320.73

Cook Corners, 1.9 miles north of, southeast corner of road forks, in culvert; bronze tablet stamped "N. Y. 292". 291.527

Cook Corners, 2.8 miles north of, west side of road, on culvert; chiseled square marked "U. S. B. M. 240". 240.13

Fort Covington Center, 60 feet south of road forks, west side of road, in culvert; bronze tablet stamped "N. Y. 204". 203.432

Fort Covington Center, 1.3 miles north of, southeast corner of bridge over West Branch Deer Creek, in floor of; bronze tablet stamped "N. Y. 187". 187.085

Westville, 1.6 miles west of, south end of west abutment of bridge; chiseled square marked "U. S. B. M. 187". 187.13

Westville, at forks of roads, 100 feet west of Ordway's store, in culvert; bronze tablet stamped "N. Y. 205". 205.013

Westville Center, 1.1 miles north of, east side of road, on culvert; chiseled square marked "U. S. B. M. 218". 217.54

Westville Center, 50 feet northeast of church, at northeast corner of crossroads, in stump; copper nail marked "U. S. B. M. 257". 257.07

Fay, 2.9 miles north of, 200 feet south of road forks, west side of road, in culvert; bronze tablet stamped "N. Y. 298". 298.263

Fay, 2 miles north of, west side of road, on culvert; chiseled square marked "U. S. B. M. 337". 336.41

Fay, 1.2 miles north of, west side of road, 250 feet north of forks, on culvert; chiseled square marked "U. S. B. M. 384". 384.26

Fay, 350 feet north of road forks, west side of road, in culvert; bronze tablet stamped "N. Y. 424". 424.301

Fay, 0.9 mile south of, east side of road, on culvert; chiseled square marked "U. S. B. M. 518". 518.10

Fay, 1.7 miles south of, 50 feet north of road forks, east side of road, in telephone pole; spike marked "U. S. B. M. 597". 596.57

From Westville northeast along highway to Trout River, thence east to point 3.7 miles north of Constable. (An error of 0.36 foot was adjusted in this line.)

Westville, 1.4 miles east of, at northeast corner of crossroads, in base of signpost; spike marked "U. S. B. M. 212". 211.97

Westville, 3.1 miles east of, northwest corner of road forks, in ledge; bronze tablet stamped "N. Y. 263". 262.650

Westville, 4.5 miles east of, northwest corner of crossroads, in root of tree; copper nail with washer, marked "U. S. B. M. 239". 238.34

Trout River, in base of international boundary monument 735; bronze tablet stamped "N. Y. 224". 223.178

Trout River, 1.3 miles east of, south side of road, in root of stump; copper nail with washer, marked "U. S. B. M. 239". 238.78

MARGARETVILLE QUADREANGLE.

[Latitude 42°–42° 15'; longitude 74° 30'-74° 45'.]

Primary leveling in 1901 by William Kelley and W. E. Green.

From Fleischmans station to Halcottsville.

Fleischmans station, east abutment of Ulster & Delaware R. R. bridge, east of station, aluminum tablet stamped "1515 Albany 1901" 1,515.771
Kelleys Corners, in front of station; top of west rail 1,380.7
Halcottsville, in front of station; top of west rail 1,403.8
Halcottsville, 550 feet south of, Ulster & Delaware R. R. bridge 54, on top of south abutment, at west end; bronze tablet stamped "1399 Albany 1901" 1,399.691
Halcottsville, 1.45 miles north of, at highway crossing; crest of dam 1,410.8

From Arkville southeast along road to West Shandaken.

Dry Brook, West Shandaken, front of Second Adventist Church, southwest corner; bronze tablet stamped "1628 Albany 1901" 1,628.726

From Arkville southwest along highway to Arena, thence southeast to Grant Mills, thence south to Ulster-Delaware county line on Coykendall road.

Margaretville, stone steps at entrance to People's Bank, west face; aluminum tablet stamped "1325 Albany 1901" 1,325.581
Grant Mills, 2.9 miles south of, line between Delaware and Ulster counties, 1,380 feet northwesterly from large culvert, north side of Coykendall road, in large rock; bronze tablet stamped "2464 Albany 1901" 2,468.376

Near Dunraven north to New Kingston.

New Kingston, north face of United Presbyterian Church, 2 feet west of belfry tower; aluminum tablet stamped "1885 Albany 1901" (possibly 2.85 feet too low) 1,685.745

Leveling in 1915 by K. E. Schlachter.

From Margaretville southwest along Delaware & Northern R. R. to Arena.

Margaretville, at entrance to People's Bank, cemented into west face of stone step; aluminum tablet stamped "1325" 1,325.581
Keeneys, in front of station; top of rail 1,307.3
Keeneys station, 0.3 mile west of, east margin of track on boulder; chiseled square painted "t. b. m. 1305.4" 1,305.44
Dunraven station, 0.2 mile east of, in west end of north abutment of railroad bridge 4; chiseled circle painted "t. b. m. 1296.6" 1,296.62
Dunraven station, top of west rail 1,295.2
Dunraven station, 0.8 mile west of, in boulder 12 feet north of track; bronze tablet stamped "N. Y. 1284" 1,284.066
Hall's Bridge, 150 feet west of, in south margin of track, on boulder; chiseled square painted "t. b. m. 1272.9" 1,272.89
Arena, 0.8 mile east of, in west end of north abutment of culvert 5; chiseled circle painted "t. b. m. 1268.5" 1,268.53
Arena station, 450 feet east of, in ledge, south margin of track, 1 foot above ground; bronze tablet stamped "N. Y. 1270" 1,270.119
Arena, at road intersection near old "Central House"; back part of hydrant top marked "B. M. 1263" (old t. b. m.) 1,266.57
PRECISE AND PRIMARY LEVELING.

MASSENA QUADRANGLE.

[Latitude 44° 45'-45°; longitude 74° 45'-75°.]

Primary leveling in 1904 and 1906 by G. M. Dimmick.

From Richards Landing south along highway to Massena Springs, thence east along the Grand Trunk Ry. to Helena.

Richards Landing, 58.5 feet east of east face of Isaac Richards's residence, 3 feet north of south fence of river road, 13 feet underground; concrete base, in top of which is set a 4-inch round-head bolt (Deep Waterways P. B. M. 6)________________ 232.381

Massena, in northwest corner of Clark block; bronze tablet stamped "205 Albany 1904"______________________________ 205.000

Massena Springs, 4.33 miles east of, in south end of east abutment of railroad bridge; bronze tablet stamped "193 Albany 1904"_______ 192.946

From Massena Springs southwest along road via Raymondville to Norwood, thence along railroad northeast to Winthrop, thence along highway north-northeast via Helena to Hogansburg.

Massena Springs, 2.75 miles southwest of, in foundation wall of north end of east face of brick house of Charles Cahby (owned by Allen Ames), on highway leading from Massena Springs southwest to Raymondville; bronze tablet stamped "216 Albany 1904"________ 216.063

Raymondville, in foundation wall of Union Church, 10 feet from north end of west face; bronze tablet stamped "251 Albany 1904"________ 251.126

Norfolk, in foundation wall of Presbyterian Church, 12 feet south of north end of west face; aluminum tablet stamped "257 Albany 1904"______________________________ 257.087

Norwood, in foundation wall of Music Hall, north end of east face, 28 inches above ground; aluminum tablet stamped "330 Albany 1903 Adj"______________________________ 330.237

Knapps, in foundation wall of residence of L. M. Maxfield, west end of south face; aluminum tablet stamped "360 Albany 1904"_______ 359.984

Knapps, 3.81 miles east of, in top of north end of east abutment of railroad bridge, 420 feet west of highway crossing; aluminum tablet stamped "345 Albany 1904"______________________________ 344.718

Winthrop, in foundation wall of Universalist Church, south end of east face; aluminum tablet stamped "337 Albany 1904"________ 337.180

Winthrop, 2.96 miles north of, in foundation wall of schoolhouse, district 3, town of Brasher, south end of east face; aluminum tablet stamped "291 Albany 1903 Adj"______________________________ 290.458

Brasher Center, in foundation wall of Methodist Church, east end of south face; aluminum tablet stamped "266 Albany 1903 Adj"_______ 265.748

From Buckton north to Winthrop.

Stockholm, 2.7 miles north of Buckton, in brickwork of residence of Andrew Traverse, west end of south face; aluminum tablet stamped "376 Adj 1903"______________________________ 376.484

1 See Bull. 514, p. 59, for other elevations.

MEDINA QUADRANGLE.¹

[Latitude 43°–43° 15'; longitude 78° 15'–78° 30'.]

Primary leveling in 1896 by E. L. McNair.

On circuits tied to canal bench marks.

Middleport, Erie Canal bridge 145, in north foundation under center of bridge and facing towpath and canal; bronze tablet stamped "519" (permission to remove bench mark granted on December 29, 1911, to J. V. Hogan)_________________________ 518.458

Medina, Prospect Street bridge 140, lower step, east end, north side of Erie Canal; copper bolt stamped "518"_________________________ 517.189

Elevations determined from New York State survey levels of 1883, corrected.

East Shelby, at southwest corner of Methodist Episcopal Church, in boulder; copper bolt stamped "668"_________________________ 667.547

Shelby Town, 125 feet north of Coons bridge, east side of road between East and West Shelby, in top of boulder 3 feet high; copper bolt stamped "616"_________________________ 615.756

Whentville, 200 feet north of road crossing, 3 feet east of fence line, under northwest corner of red barn of John Waterstreet, in granite boulder; copper bolt stamped "669"_________________________ 668.182

Alabama station, 4 miles northwest of, 0.2 mile north of Tonawanda Creek, north side of gate entrance to feeder, in second step of east abutment; copper bolt stamped "622"_________________________ 621.160

Bench marks set from old railroad levels, corrected (value doubtful).

Pembroke, 1,550 feet east of railroad station, Batavia & Tonawanda branch of New York Central & Hudson River R. R., on coping stone of east abutment of bridge 104, south side of track; copper bolt stamped "823"_________________________ 822.780

East Pembroke, 1 mile north of, 630 feet north of corner, east side of north and south road, on land belonging to E. H. Clark, in boulder 6 feet square deeply embedded in ground; copper bolt stamped "873 ft."_________________________ 872.140

MEXICO QUADRANGLE.²

[Latitude 43° 15'–43° 30'; longitude 76°–76° 15'.]

Primary leveling in 1903 by G. M. Dimmick and George Seidel.

From Vermilion east along highways via Mexico, Union Square, and South Albion to Kasoag.

Mexico, in foundation wall of pillar post of school building; aluminum tablet stamped "384 Albany 1903"_________________________ 384.059

Union Square, in foundation wall of residence of E. C. Parsons, center of north face; bronze tablet stamped "467 Albany 1903"_________________________ 467.454

South Albion, in foundation of cheese factory, south end of east face; bronze tablet stamped "645 Albany 1905"_________________________ 645.002

¹ See Bull. 514, p. 96, for additional elevations.
² See Bull. 514, p. 88, for additional elevations.
From Union Square south along the Rome, Watertown & Ogdensburg R. R. to Parish, thence east along highways to West Amboy.

Parish; top of southeast corner of foundation wall of station. 475.95

From Parish south along the Rome, Watertown & Ogdensburg R. R. to Central Square, thence east along the New York, Ontario & Western Ry. to Constantia.

Hastings, 1.2 miles west of station, in foundation wall of Presbyterian Church, south end of west face; aluminum tablet stamped "486 Albany" (bench mark on single-spur line) 486.355

MILFORD QUADRANGLE.

[Latitude 41° 15'-41° 30'; longitude 74° 45'-75°.]

Primary leveling in 1904 by G. M. Dimmick.

At Mongaup.

Mongaup, top of north abutment of highway bridge over Mongaup Creek; bronze tablet stamped "503 Albany 1903 Adj" 503.031

MILLBROOK QUADRANGLE.

[Latitude 41° 45'-42°; longitude 73° 30'-73° 45'.]

Primary leveling in 1899 by Seth Van Loan.

From Washington Hollow east via Millbrook to Dover Plains.

Millbrook, 2 miles west of, south parapet wall of bridge over stream; point in stone 459.56
Millbrook, west side of Millbrook Bank near southwest corner; aluminum tablet stamped "Albany 568" 568.824

From Dover Plains north along the Harlem R. R. to Millerton.

Wassaic, 600 feet south of, north abutment of bridge over stream; point on west end 453.13
Amenia, in corner stone southwest corner of Amenia Bank; aluminum tablet stamped "Albany 573" 573.87
Coleman, 0.87 mile north of, west end of north abutment overhead bridge; point on second step from top 586.68
Millerton, first bridge north of, south abutment, west end; point on second stone from top 499.56

From Millerton via Shekomeko along the Newburg, Dutchess & Connecticut R. R. to Pine Plains.

Millerton, in northeast front of brick block hotel; aluminum tablet stamped "Albany 701" 701.081
Winchells station, 1.25 miles west of, south abutment of cattle pass bridge 66; point on east end 864.73
Shekomeko, 1 mile north of, south abutment of overhead bridge 63; point on fourth step from top, west end 731.97
Bethel station, west abutment of bridge 57; point on north end, chisel mark "U. S." 500.79
Pine Plains, in foundation stone of Myers dwelling, near southeast corner of house; aluminum tablet stamped "Albany 474" 474.626
From Pine Plains via Stissing and Stanfordville to Clinton Corners.

McIntyre, Central New England Ry. bridge, in face of south abutment, third course from ground; aluminum tablet stamped “Albany 399”

Feet. 399.388

MOIRA QUADRANGLE:*

[Latitude 44° 45'-45°; longitude 74° 30'-74° 45’.]

Precise leveling in 1900 by C. H. Semper.

From Moira along New York & Ottawa R. R. to Fort Covington.

Moira, Methodist Episcopal Church, in east face of; aluminum tablet stamped “420 Albany 1900”

Bombay, public school on Main Street, in northwest face of; bronze tablet stamped “193 Albany 1900”

Fort Covington (Deep Waterways primary bench mark), Grand Trunk Ry. bridge over Salmon River; chiseled square, 1 foot from south edge and 1 foot from east edge of east abutment

Fort Covington, Grand Trunk Ry. bridge over Salmon River, 600 feet west of station, top of south end of east abutment; bronze tablet stamped “167 Albany 1900”

Primary leveling in 1904 by G. M. Dimmick.

From Helena to Hogansburg.

Helena, in north end of west abutment of Grand Trunk Ry. bridge over St. Regis River; bronze tablet stamped “191 Albany 1904”

Hogansburg, in foundation wall of St. Patrick’s Church; 4-inch bolt

Leveling in 1914 by H. S. Senseney.

From Brushton west along Rutland R. R. to Moira.

Brushton, in front of station; top of south rail

Brushton, south side of entrance of Brushton High School, in fourth step; bronze tablet not stamped

Brushton, 1.2 miles west of, 100 feet east of road crossing, south side of track, in telephone pole; spike marked “U. S. B. M. 410”

Moira, in front of Rutland station; top of north rail

Moira, Methodist Episcopal Church, in face of; aluminum tablet stamped “420 Albany 1900”

From Dickinson along highways northwest 2 miles, thence west 8 miles, thence north 6.7 miles, thence east and southeast to Moira.

Dickinson Center, 3.6 miles north of, in large rock on east side of railroad at culvert 18, 25 feet east of rail, 5 feet north of track; aluminum tablet stamped “603 Albany 1900”

1 See Bull. 514, p. 59, for additional elevations.
PRECISE AND PRIMARY LEVELING.

Alburg, 1.4 miles south of, east side of road, 100 feet south of church, in telephone pole; spike marked “U. S. B. M. 595” ------------ Feet. 595.34
Alburg, 0.5 mile east of, 180 feet west of road forks, south side of road, in culvert; bronze tablet stamped “464” ------------ 464.194
Alburg, 1.2 miles west of, at northeast corner of crossroads, on rock; chiseled square marked “U. S. B. M. 512” ------------ 512.23
Alburg, 2.7 miles west of, at northeast corner of crossroads, on boulder; chiseled square marked “U. S. B. M. 504” ----------- 504.31
Lawrenceville, 300 feet east of Deer River, at northwest corner of crossroads, in culvert; bronze tablet stamped “435” ------------ 434.517
Lawrenceville, 1.2 miles west of, at northeast corner of crossroads, on culvert; chiseled square marked “U. S. B. M. 467” ------------ 467.26
Lawrenceville, 2.1 miles west of, at northeast corner of crossroads, on culvert; chiseled square marked “U. S. B. M. 439” -------- 438.60
Lawrenceville, 3.2 miles west of, at northwest corner of crossroads, in concrete step of creamery; bronze tablet stamped “437” ------ 436.565
Lawrenceville, 3 miles west of, about 550 feet east of school house, at northeast corner of road forks, on ledge; chiseled square marked “U. S. B. M. 403” -------------------------------- 403.14
Lawrenceville, about 3 miles northwest of, at northeast corner of crossroads, on rock; chiseled square marked “U. S. B. M. 308” --- 367.971
North Lawrence, about 1.5 miles west of, 75 feet north of railroad, 35 feet east of road, in ledge; bronze tablet stamped “330” ------ 330.201
North Lawrence, about 1.5 miles northwest of, 120 feet north of road forks, east side of road, in telephone pole; spike marked “U. S. B. M. 285” -------------------------------- 254.47
North Lawrence, about 2.5 miles northwest of, 250 feet southeast of road forks, in boulder; bronze tablet stamped “265” --------- 264.439
Brasher Iron Works, 4.3 miles south of, south side of road, in stump; copper nail with washer marked “U. S. B. M. 264” --------- 263.85
Brasher Iron Works, 2.6 miles south of, 50 feet south of road forks, east side of road, in root of maple tree; copper nail marked “U. S. G. S. N. Y. B. M.” -------------------------------- 260.14
Brasher Iron Works, 2.8 miles south of, north end of west abutment of bridge over Deer River; bronze tablet stamped “261” ------ 260.746
Moira, 6.7 miles northwest of, 1.1 miles east of Deer River, north side of road, in root of stump; copper nail marked “U. S. B. M. 279” -------------------------------- 278.62
Moira, 5.9 miles northwest of, 60 feet east of Jerry Hurley’s house, in root of elm tree; copper nail marked “U. S. B. M. 308” ------- 307.90
Moira, 5.2 miles northwest of, 250 feet north of house, east side of road, in root of stump; copper nail marked “U. S. 278” ------- 277.85
Moira, 3.9 miles northwest of, at road forks, 60 feet southeast of school house, in ledge; bronze tablet stamped “321” ---------- 320.809
Moira, 2.7 miles northwest of, on east end of north abutment of bridge over Lawrence Brook; chiseled square marked “U. S. B. M. 314 W–10” ------------- 313.33
Moira, 1.2 miles northwest of, 15 feet east of road forks, on boulder; chiseled square marked “U. S. B. M. 399” ------------- 338.95
Moira, Methodist Episcopal Church, in east face of; aluminum tablet stamped “420 Albany 1900” -------------------------- 419.450

104787° Bull. 671—18—8
From point 2.6 miles south of Brasher Iron Works northwest along highway to Helena.

Brasher Iron Works, 1 mile south of, 720 feet south of road forks, 20 feet east of road, on boulder; chiseled square marked “U. S. B. M. 264” ___________________________ 263.63

Brasher Iron Works, 300 feet south of schoolhouse, west side of road, in ledge; bronze tablet stamped “263” ___________________________ 262.928

Brasher Iron Works, 1 mile north of, southwest corner of road forks, in telephone pole; spike marked “U. S. B. M. 243.5” ___________ 243.18

Brasher Iron Works, 2.1 miles north of, east side of road, in root of dead elm tree; copper nail with washer stamped “U. S. G. S. N. Y. B. M.,” marked “U. S. B. M. 195” ___________________________ 194.61

Helena, on north end of west abutment of Grand Trunk Ry. bridge over St. Regis River; bronze tablet stamped “191 Albany 1904” ___________ 191.030

From Helena east along Grand Trunk Ry. to Bombay.

Helena, front of station; top of south rail, marked “U. S. 1994” _______ 199.4

Helena, 1.1 miles east of, south side of track, in telephone pole; spike marked “U. S. B. M. 193” ___________________________ 193.13

Helena, 2.3 miles east of, south side of track, in telephone pole; spike marked “U. S. B. M. 191” ___________________________ 191.04

Helena, 2.8 miles east of, 25 feet northeast of road crossing, in ledge; bronze tablet stamped “192” ___________________________ 191.775

Helena, 3.8 miles east of, 50 feet east of road crossing, south side of track, in telephone pole; spike marked “U. S. B. M. 198.6” ___________________________ 198.62

Helena, 4.8 miles east of, south side of track, in telephone pole; spike marked “U. S. B. M. 198” ___________________________ 197.63

Helena, 6.8 miles east of, 400 feet north of railroad, west side of road, in culvert; bronze tablet stamped “196” ___________________________ 195.956

Helena, 7.8 miles east of, south side of track, in telephone pole; spike marked “U. S. B. M. 191” ___________________________ 190.90

Bombay, front of station; top of east rail ___________________________ 189.1

Bombay, public school on Main Street, in northwest face of; bronze tablet stamped “193 Albany 1900” ___________________________ 193.144

MONTICELLO QUADRANGLE.¹

[Latitude 41° 30’-41° 45’; longitude 74° 30’-74° 45’.]

Primary leveling in 1904 by G. M. Dimmick.

From Oakland Valley northwest to Forestburg.

Oakland Valley, highway bridge over Neversink River, in ledge of rock 35 feet southeast of southeast corner; bronze tablet stamped “686 Albany 1903 Adj” ___________________________ 685.570

Hartwood, in stone residence of Willis Butler, north end of east face, 30 inches above ground; bronze tablet stamped “1275 Albany 1903 Adj” ___________________________ 1,275.457

¹ See Bull. 514, pp. 36-37, for additional elevations.
PRECISE AND PRIMARY LEVELING.

MORAVIA QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 76° 15'-76° 30'.]

Primary leveling in 1896 by A. B. Pomme.

From Etna northeast along Lehigh Valley R. R. to McLean.

Freeville, Lehigh Valley R. R. freight house, west side of fourth pedestal from south end under freight platform; chisel mark 1,047.30 McLean, north of small bridge at west side of square and south of store and post office, in east wall of mill race; chiseled square marked "U. S. G. S. 1123" 1,119.61

From McLean west to Midway, thence north to North Lansing, thence northeast to Locke, thence north to Moravia.

Peruville, 200 feet east of station, iron highway bridge, on southeast bridge seat; chiseled square 1,026.95

Peruville, 2.25 miles west of, in southeast corner of intersection of road running south, on southeast corner of stone step to front entrance of schoolhouse; chiseled square 1,396.82

Benson Corners, 0.33 mile south of, under most northerly of four butternut trees nearly opposite farmhouse, in boulder in east fence; copper bolt stamped "U. S. G. S. 1320 ft." 1,317.90

Midway, 1 mile north of, about 200 feet south of road running east and west, on southwest bridge seat of small bridge; chiseled square 983.20

North Lansing, R. Beardsley's store, south of and close to building; iron post stamped "U. S. G. S. B. M. 1005 Ft." 1,001.98

Locke, 3 miles southwest of, bridge at crossroads, on southeast bridge seat; chiseled square 941.63

Locke, George Culver's store, corner of Main and Mill streets, on top of curbstone; chiseled square 793.07

Locke station, railroad bridge over Owasco Inlet, 3,260 feet north of station; iron bolt cemented in southeast abutment 731.77

From Sayles Corners southwest to Moravia.

Wilson Corners, top of retaining wall at blacksmith shop, in limestone boulder; chiseled square 1,091.24

Montville, gristmill north of blacksmith shop, in northeast corner of road running east, west step stone to stairs; chiseled square 943.57

Moravia, Moravia House, corner of Cayuga and Main streets, in northeast corner of foundation; bronze tablet stamped "748" 740.48

Moravia, Church Street, at top of schoolhouse hill, capstone at north end of culvert; chiseled square 869.91

From Moravia east along highway to Dresserville, thence south to McLean.

Dresserville, Kenyon's tannery lower dam, on eighth step from top of east wing; chiseled square 1,278.77

Dresserville, George Fritz's sawmill and gristmill, in west end of doorsill to south door of boiler house; copper bolt stamped "U. S. G. S. B. M. 1291 ft." 1,286.08
Lake Como, opposite, 100 feet north of intersection of road running west, on stone at foot of southwest wing wall of small bridge; Feet. chiseled square. ........................................... 1,332.47
Groton City, 2.25 miles north of, west abutment of Fall Creek bridge, on capstone of north wing; chiseled square. .................. 1,292.33
Groton City, 0.25 mile north of, farm of George A. Bliss, 150 feet east of dwelling house and 125 feet east of road; copper bolt in boulder stamped "U. S. G. S. B. M. 1372 ft." .................................... 1,368.78
Lafayette, south end of culvert on road running east, about 150 feet east of intersection of road running north and south, on capstone; chiseled square. ................................................ 1,248.44
McLean, east side of North Street, 60 feet south of evergreen trees planted in graveyard, on a straight line with road fence, in boulder opposite upper part of graveyard; copper bolt stamped "U. S. G. S. B. M. 1234 ft." ........................................ 1,231.29

MORICHES QUADRANGLE.

[Latitude 40° 45'-41° 45'-72° 45'-73°.]
Primary leveling in 1903 by George Seidel.

Middle Island post office, 0.4 mile east of, west of Artist Lake, 20 feet south of center of highway, 175 feet west of road to Woodville, in rock; bronze tablet stamped "57 Willets Pt." .......................... 57.065
Manorville, 3.5 miles north of, 1.2 miles east of Horn Tavern, south of road, about 800 feet east of Henry Hallock's farmhouse, at road running south; iron post stamped "83 Willets Pt." .................. 83.454

From Eastport west along Long Island R. R. to Patchogue.

Center Moriches, pavement, west end of platform; rock .................................... 29.99
South Haven, Presbyterian Church, northwest corner of foundation wall; bronze tablet stamped "17 Willets Pt." .......................... 17.654

MORRISVILLE QUADRANGLE.

[Latitude 42° 45'-43°; longitude 75° 30'-75° 45'"]
Primary leveling in 1898 by Clark Brown, in 1899 by W. W. Gilbert and A. W. Gill, in 1904 by G. M. Dimmick.

From Fenner east along highway to Peterboro, thence south via Morrisville to Georgetown, thence northwest to Earlville.

Peterboro, side of schoolhouse, 15 feet from rear corner, in stone foundation; tablet stamped "1320 Albany" ........................................ 1,321.183
Morrisville, front of county jail, 7 feet from west corner, in stone foundation; tablet stamped "1325 Albany" ........................................ 1,326.259
Morrisville station, north line of; top of rail ........................................ 1,225.84
West Eaton, front of schoolhouse, right of entrance, 1 foot from corner, in stone foundation; tablet stamped "1395 Albany" .......................... 1,395.675

From Georgetown station east to Earlville.

Georgetown station, 1.75 miles southeast of, 10-foot span bridge over stream, north end of east abutment, 2.5 feet below top; iron bolt ....... 1,403.92
Lebanon, 53 feet west of highway, 123 feet northeast of railroad, in southwest corner of wall of store dwelling; aluminum tablet stamped "1358" ........................................ 1,357.949
**From Earlville north to Bouckville, thence west to Morrisville.**

Hamilton, Hamilton Bank building, in water table, 2 feet west of northeast corner, aluminum tablet stamped "1126 Albany" 1,126.038

Hamilton, 1 mile north of, top of northwest corner of east abutment of railroad bridge over old canal 1,126.91

Bouckville, north side of stone building occupied by Coe & Brockett's store, 2 feet above ground, 1 foot west of northeast corner; aluminum tablet stamped "1149 Albany" 1,149.634

**From Earlville northeast to Poolville.**

Poolville, in foundation wall of milk station, east end of south face; bronze tablet stamped "1098 Albany 1903 Adj" 1,098.566

**From Morrisville station north to Durhamville.**

Munnsville, Dexter & Davis's building used as store and post office, in south side of stone foundation, 15 feet east of southwest corner; aluminum tablet stamped "679 Albany" 679.661

**NAPLES QUADRANGLE.**

[Latitude 42° 30'-42° 45'; longitude 77° 15'-77° 30'.]

Primary leveling in 1900 by W. E. Green.

**From Rushville south along railroad to Naples.**

Middlesex, in water table of brick schoolhouse; bronze tablet stamped "737 D" 735.642

Middlesex, 100 foot northeast of station, at highway crossing; top of rail 717.0

Parish, in front of station; top of rail 695.8

Naples, Presbyterian Church, in northwest corner of front, in water table; bronze tablet stamped "799 Dunkirk" 799.561

**From Naples northwest along highway via Hunts Hollow to county corner.**

Pansy, 1 mile northwest of, 0.3 mile southwest of county corner, west side of road, on north retaining wall of approach to Wm. S. Washburn's barn; bronze tablet stamped "941 Dunkirk" 941.698

**From Naples east along highway to Italy, thence north along Italy Hollow road to Potter Center.**

Italy, Methodist Episcopal Church wall; bronze tablet stamped "1121 Dunkirk" 1,121.298

**From Hunts Hollow south along highway to Atlanta, thence southeast along Erie R. R. to Cohocton.**

Atlanta, Presbyterian Church, front wall, in water table; bronze tablet stamped "1317 Dunkirk" 1,317.906

Atlanta, at crossing east of station; top of rail 1,317.0

Cohocton, Main Street crossing; top of rail 1,286.5

**From Italy south to Prattsburg.**

Prattsburg, Presbyterian Church, in front wall, bronze tablet stamped "1470 Dunkirk" 1,470.637

NEW BERLIN QUADRANGLE:
[Latitude 42° 30'–42° 45'; longitude 75° 15'–75° 30'.]

Precise leveling in 1901 by D. H. Baldwin.

From West Edmeston south along Unadilla Valley R. R. to New Berlin.

West Edmeston, 1.55 miles south of, southwest corner of highway bridge, on coping stone of foundation; chiseled square. 1,127.18
Sweets, road crossing near station; top of east rail. 1,123.8
South Edmeston, at road crossing; top of east rail. 1,111.0
South Edmeston, 0.2 mile east of railroad, northeast corner of highway bridge, on top stone of foundation; aluminum tablet stamped “1110 Albany 1901” (probably destroyed, 1909) 1,109.984
South Edmeston Free Church, in northeast corner of foundation wall; aluminum tablet stamped “1127 N. Y.” 1,127.299
New Berlin, New York, Ontario & Western Ry. bridge 52, near northwest end of center pier, on top of coping stone; aluminum tablet stamped “1089 Albany 1901” (probably destroyed, 1909) 1,089.291
New Berlin, top of west end of south abutment New York, Ontario & Western Ry. bridge, in concrete; aluminum tablet 1,090.108

From New Berlin southwest along New York, Ontario & Western Ry.

New Berlin, opposite New York, Ontario & Western station; top of southeast rail 1,093.4
New Berlin, 1.01 miles south of, south side of stone-arch highway bridge, on face of keystone; chiseled cross 1,091.32
Sage, crossing near flag station; top of east rail 1,085.1
New Berlin Center, in front of flag station; top of east rail 1,073.6
Davis, crossing; top of east rail 1,074.0
South New Berlin, railroad crossing south of station; top of east rail 1,057.0
South New Berlin, Baptist Church, under front window, north side of entrance, near northwest corner of building, in third course of brick above water table; aluminum tablet stamped “1059 Albany 1901” 1,059.667
South New Berlin, 1.21 miles south of, southeast corner of railroad bridge, on abutment; chiseled square 1,074.24
Holmesville, in front of station, main track; top of east rail 1,067.8

NEWBURG QUADRANGLE.
[Latitude 41° 30'–41° 45'; longitude 74°–74° 15'.]

Precise leveling in 1900 by C. H. Semper.

From Campbell Hall north along Wallkill Valley R. R. to Walden, thence to East Walden and along Central New England Ry. to Lloyd.

Neeleytown, in front of station; top of rail 376.5
Beaver Dam, in front of station; top of rail 403.7
Walden, national bank, southwest corner aluminum tablet stamped “376” 375.136
St. Elmo, in front of station; top of rail 435.2
Modena, in front of station; top of rail 465.8

* See Bull. 514, pp. 31–33, for additional elevations.
PRECISE AND PRIMARY LEVELING.

Mowbray, in front of station; top of rail .................................. 454.2 Feet.
Elting, in front of station; top of rail .................................... 421.0
Clintondale, in front of station; top of rail .............................. 386.3
Lloyd, street railroad in front of station; top of rail .................. 353.6
Lloyd, Centerville Hotel, southeast corner, bronze tablet stamped “359” (destroyed) ...................................................... 358.177

Primary leveling in 1900 by G. Bailey.

From Newburg west via Coldenham to Montgomery, thence north to New Hurley station.

Newburg, southwest corner of post-office building, to right of entrance; aluminum tablet stamped “95” ........................................... 94.404
Coldenham, 0.2 mile west of, at entrance to A. B. Lindsay’s place, large stone gatepost; aluminum tablet stamped “Albany 434” ........ 433.619
Berea, crossing of Philadelphia & Reading R. R.; top of west rail of main track ................................................................. 410.3
Walden, southeast corner of National Bank of Walden; aluminum tablet stamped “Albany 376” .................................................. 375.186
Walden, in front of Wallkill Valley R. R. station; top of west rail, main track ................................................................. 353.2
Borden condensed-milk factory, on west end of culvert over stream flowing into pond; stone on southeast corner of coping; chisel mark ................................................................. 292.52
Wallkill, 400 feet south of station, at highway crossing; top of rail ................................................................. 279.1
Wallkill, foundation of water tank; point cut on stone .................. 279.13

From New Hurley post office southeast via Plattekill and Balmville to Newburg.

Plattekill, 0.2 mile east of, north end of bridge over stream flowing south, on top stone of retaining wall; chisel mark .................. 554.15
Balmville, on stone foundation of fence surrounding big tree; chiseled point ................................................................. 194.60

From New Hurley station north via Gardiner to Newpaltz, thence east to Highlands.

Gardiner station, 150 feet south of, in east wall of culvert; bronze tablet stamped “Albany 309” .................................................. 309.097
Forest Glen station, 0.2 mile south of, south end of trestle, east side of track, on wall; chisel mark ........................................... 297.73
Newpaltz, Newpaltz Savings Bank, southwest corner; bronze tablet stamped “Albany 237” .................................................. 236.022

From Lloyd southwest to Clintondale.

Clintondale, Ambrose’s store, southwest corner; bronze tablet stamped “Albany 553” .......................................................... 552.740

NEWCOMB QUADRANGLE.

[Latitude 43° 45′-44°; longitude 74°-74° 15′.]

Primary leveling in 1896 by A. F. Krause.

Aiden Lair lodge, 50 feet southeast of, in boulder; copper bolt stamped “U. S. G. S. 1659 Ft. B. M.” ............................................. 1,655.022

From North River northwest via Summit to Indian Lake.

Indian Lake, 4 miles east of, southeast of Spring’s white house, in front of log house 10 feet to left of road; copper bolt stamped "U. S. G. S. B. M. 1834 Ft." 1,830.049

From Aiden Lair north to Tahawus, thence west to Newcomb.

Tahawus, 2 miles south of, 0.6 mile northwest of Daniel Havron’s house, in large boulder 12 feet to left of road; copper bolt stamped "U. S. G. S. 1737 Ft. B. M." 1,732.862

Hudson River bridge, on top of coping at downstream end of west abutment; chiseled mark 1,563.41

Newcomb Methodist Church, 85 feet northeast of door, 16 feet to left and 1.3 feet above center of road; copper bolt stamped "U. S. G. S. 1640 Ft. B. M." 1,637.051

From Newcomb west to Hamilton-Essex county line.

Rich Lake, south side of, 460 feet back from Abner Beldin’s house, on large boulder, 14 feet to right of and 3.8 feet above center of road; copper bolt stamped "U. S. G. S. 1603 Ft. B. M." 1,599.473

From bridge east of Indian Lake village northeast down Indian River to mouth.

Indian River bridge, west abutment, near front angle of coping on upstream end; chiseled square 1,597.78

Hudson River, southwest bank, junction with north bank of Indian River; circular chisel mark and letter "S" on large boulder 1,424.32

From mouth of Indian River northeast via North Woods Club and Moose Pond Club to Aiden Lair.

Hudson River, junction of southwest bank with northwest bank of Indian River, in recess at upper southwest corner of boulder; copper bolt stamped "U. S. G. S. 1428 Ft. B. M." 1,423.897

North Woods Club house, boulder 200 feet northeast of; copper bolt stamped "U. S. G. S. 1769 Ft. B. M." 1,764.825

Moose Pond Club house, 100 feet northwest of; in large boulder near shore; copper bolt stamped "U. S. G. S. 2095 Ft. B. M." 2,091.399

From mouth of Indian River northwest to Chain Lakes.

Cedar River, south bank of, 2 miles west of Hudson River, 20 feet southwest of ferry on road to Chain Lakes, in outcrop; copper bolt stamped "U. S. G. S. 1549 Ft. B. M." 1,544.603

Chain Lakes, 50 feet south of Third Lake, 12 feet above water surface in outcrop, 1,100 feet northwest of hotel; copper bolt stamped "1615" 1,610.793
NEW YORK CITY¹ AND VICINITY.

[Latitude 40° 22′ 30″–41°; longitude 73° 40′–74° 15′.]

Includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook quadrangles.

The following list gives corrections to apply in order to reduce to mean sea level the elevations of bench marks which have been used by the various city bureaus and referred to different datums:

- United States Geological Survey, Coast and Geodetic Survey since 1898, and Board of Water Supply (mean sea level) ________________ 0.00 Feet.
- Croton Aqueduct, at Jerome and McLean avenues ________________ −0.786
- Dock Department, mean low water at the Battery ________________ −2.103
- Coast and Geodetic Survey previous to 1898 ________________ +0.11
- United States Navy Yard datum, Brooklyn sewers, water supply, bridge department ________________ +1.68
- Public works, Manhattan highways and sewers ________________ +2.750
- Bronx highways and sewers ________________ +2.608
- Queens Borough and Long Island City datum ________________ +2.725
- Brooklyn highway bureau ________________ +2.547
- Richmond Borough (high water) ________________ +3.192

NICHOLVILLE QUADRANGLE.

[Latitude 44° 30′–44° 45′; longitude 74° 30′–74° 45′.]

Precise leveling in 1900 by C. H. Semper.

From St. Regis Falls along New York & Ottawa R. R. to Dickinson Center.

- St. Regis Falls, 1,000 feet south of station, in large rock 20 feet west of railroad and 300 feet north of railroad water tank; aluminum tablet stamped “1256 Albany 1900” ________________ 1,256.497
- Dickinson Center, in front of station; top of rail ________________ 934.5
- Dickinson Center, 3.6 miles north of, in large rock on east side of railroad at culvert No. 18, 25 feet east of rail, 5 feet north of track; aluminum tablet stamped “603 Albany 1900” ________________ 602.642

NINEVEH QUADRANGLE.

[Latitude 42°–42° 15′; longitude 75° 30′–75° 45′.]

Precise leveling in 1898 by E. L. McNair.

From tunnel east along Delaware & Hudson R. R. to Afton.

- Tunnel, 0.5 mile west of station, at southeast corner of bridge 104, crossing over road, in coping stone of abutment; bronze tablet stamped “1384 A” ________________ 1,384.002
- Harpersville station, 1,250 feet west of, southwest corner of iron-trestle bridge 97, in coping stone of abutment; bronze tablet stamped “1051 A” ________________ 1,049.041

¹ For descriptions and elevations of bench marks in New York City see “Precise leveling in New York City, 1909–1914,” by Frederick W. Koop, assistant engineer, Board of Estimate and Apportionment, published by the city of New York.
Harpersville, in front of station; top of north rail. 1,053.7 Feet.
Nineveh, in front of station; top of north rail. 1,033.7
Afton, in front of station; top of north rail. 982.0
Afton, 1,050 feet northeast of, northeast corner of iron-girder bridge 904, crossing over highway, in coping stone of abutment; bronze tablet stamped "973 A". 972.782

Precise leveling in 1900 by C. H. Semper.

From Gulf Summit along Erie R. R. to Oquaga.

Gulf Summit, at railroad crossing near station, northbound track; top of rail. 1,363.5
Oquaga, at railroad crossing by station, northbound track; top of rail. 1,153.6

Primary leveling in 1902 by J. B. Maguire.

From Harpersville south along the Delaware & Hudson R. R. to Lanesboro, Pa.

Centerville, in front of station; top of rail. 966.5
East Windsor, in front of station; top of rail. 988.2
Windsor, in south wall at southeast of foundation of Presbyterian Church; bronze tablet stamped "972 Albany". 972.917
Stateline, 1 mile north of post office, east side of river road, east side of river, at school 14, Windsor Township, in northwest corner of foundation of W. W. Watrous's house; bronze tablet stamped "960 Albany". 961.147

NORTH CREEK QUADRANGLE.

[Latitude 43° 30'-43° 45'; longitude 73° 45'-74°.]

Precise leveling in 1899 by E. L. McNair.

From The Glen north along Delaware & Hudson R. R. to North Creek.

"The Glen," Delaware & Hudson R. R. station, 530 feet north of, at southwest corner of a steel-girder bridge 14, 5 feet west of girder, in coping stone of bridge seat; aluminum tablet stamped "749 Albany 1899". 749.510
Riverside, 400 feet north of station, on southeast corner of west headwall of culvert under Delaware & Hudson tracks; aluminum tablet stamped "883 Albany 1899". 882.49
North Creek station, 0.4 mile southeast of, bridge seat at southeast corner of steel-girder bridge 18, 4.4 feet below east rail; aluminum tablet stamped "1001 Albany 1899". 1,001.491
North Creek station, 1,000 feet north of, in quarry outcrop on southwest side of track, 2 feet above track and 6 feet from southwest rail; bronze tablet stamped "1012" (set in 1896). 1,008.48

NORTHEAST QUADRANGLE.

[Latitude 42°-42° 15'; longitude 79° 45'-80°.]

Primary leveling in 1902 by G. M. Dimmick.

Near Stateline village.

Stateline (village), 2.2 miles south of, 1,000 feet south of three corners, in east end of north abutment of small bridge; bronze tablet stamped "1293 Dunkirk 1902". 1,293.049
PRECISE AND PRIMARY LEVELING.

NORTHPORT QUADRANGLE.

[Latitude 40° 45'-41°; longitude 73° 15'-73° 30'.]

Primary leveling in 1901 by C. H. Semper.

From Jericho northeast along highway and railroad to East Northport.

Syosset, road crossing at station; top of rail

Feet.

205.9

Syosset, 1.9 miles east of, overhead railroad bridge, south end of east abutment; top of bridge seat, chiseled square

161.38

Cold Spring, at road crossing at station; top of rail

129.8

Huntington, northwest corner of Central Presbyterian Church on Main Street, front face; bronze tablet stamped "52 Willetts Pt. 1901"

52.193

From East Northport south along highway via Commack to Brentwood, thence west along railroad to Deerpark.

East Northport, 0.2 mile south of station, south corner of schoolhouse, front face; bronze tablet stamped "229 Willets Pt. 1901" (asked to remove to new building Sept. 15, 1908, Larkfield)

229.433

Commack, near post office, northeast angle of crossroads; large flat rock

131.57

Brentwood, 200 feet west of station, road crossing; top of rail

86.0

Brentwood, southeast corner of Presbyterian Church, 500 feet south of station, front face; bronze tablet stamped "87 Willetts Pt. 1901"

87.401

Edgewood, 100 feet south of station, at road crossing; top of rail

77.5

Deerpark, 800 feet south of road crossing, in front face of south corner of church; bronze tablet stamped "72 Willetts Pt. 1901"

72.071

From East Northport east along the Long Island R. R. to Kings Park.

East Northport, 2 miles east of, Bread and Cheese Hollow bridge across ravine, west end; top of rail

147.9

Kings Park, road crossing; top of high rail

171.8

NORWICH QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 75° 30'-75° 45'.]

From Norwich north along the Delaware, Lackawanna & Western R. R. to Earlville.

Norwich, at Main Street crossing of the Delaware, Lackawanna & Western R. R.; top of rail

1,006.7

Norwich, southeast corner of county courthouse, on Broad Street, in foundation wall; aluminum tablet stamped "1015 Albany 1900"

1,015.216

Galena, North Norwich, at railroad crossing near station; top of rail

1,030.8

Galena (North Norwich post office), culvert of the New York, Ontario & Western Ry., east side of top of north abutment; bronze tablet

1,028.181

Earlville, in brickwork of schoolhouse, 1 foot to right of front door; tablet stamped "1100 Albany"

1,100.295

From Norwich northwest via Plymouth and Otselic to Georgetown station.

Beaver Meadow, in north face of Methodist Church; bronze tablet stamped "1484 Albany 1900"

1,483.869

Otselic, 500 feet east of hotel, west side of iron highway bridge, on top of south abutment; aluminum tablet stamped "1331 Albany 1900"

1,331.035
From South Plymouth along highways west to North Pharsalia, thence south to East Pharsalia (single-spur line).

East Pharsalia, southeast corner of wall to chapel, 1,000 feet south of hotel; bronze tablet stamped “1557 Albany 1900”

**NUNDA QUADRANGLE.**

(Latitude 42° 30’-42° 45’; longitude 77° 45’-78°.)

Precise leveling in 1902 by D. H. Baldwin.

From Mount Morris south along railroads to Nunda.

Mount Morris, 2,200 feet east of Delaware, Lackawanna & Western station, at northwest corner of railroad bridge, on coping stone; aluminum tablet stamped “575 Rochester 1901”

Mount Morris, 0.52 mile north of Erie R. R. station, grade crossing of Delaware, Lackawanna & Western; top of rail

Mount Morris, in front of Erie station; top of west rail

Mount Morris, 0.48 mile south of Erie R. R. station, southeast corner of Pennsylvania R. R. bridge, near northeast corner of parapet wall; chiseled square

Mount Morris, 0.52 mile north of Erie R. R. station, grade crossing of Delaware, Lackawanna & Western; top of rail

Mount Morris, 0.48 mile south of Erie R. R. station, southeast corner of Pennsylvania R. R. bridge, near northeast corner of parapet wall; chiseled square

Mount Morris, 0.52 mile north of Erie R. R. station, grade crossing of Delaware, Lackawanna & Western; top of rail

Mount Morris, 0.48 mile south of Erie R. R. station, southeast corner of Pennsylvania R. R. bridge, near northeast corner of parapet wall; chiseled square

Sonyea, 0.3 mile north of, southwest corner of girder bridge over highway, top of parapet wall; chiseled square

Sonyea, in front of station; top of east rail

Sonyea, 0.54 mile south of, center of bridge 12 over Keshaqua Creek; top of east rail

Sonyea, 2.38 miles south of, southeast corner of bridge 13, near northeast corner of parapet wall; chiseled square

Tuscarora, 0.61 mile north of, southeast corner of bridge 15, northeast corner of parapet wall; chiseled square

Tuscarora, in front of station; top of east rail

Tuscarora, 1,100 feet south of, southeast corner of bridge, top of parapet wall; bronze tablet marked “773 Rochester 1902”

Nunda Junction, in front of station; top of east rail, Swains branch

Nunda, in front of station; top of west rail

Nunda, Fireman’s Hall, front face, 1 foot from northwest corner, in water table; aluminum tablet stamped “944 Rochester 1902”

Along Pittsburg, Shawmut & Northern R. R.

Nunda, 4.27 miles southeast of, 60 feet south of crossing, west side of track, on coping stone of box drain; chiseled square

Ross crossing, 1.40 miles northwest of, small wooden bridge near farm crossing; top of east rail

Along Erie R. R.

Ross crossing, 200 feet southeast of, between tracks, north side of open culvert, on coping stone; chiseled square

Primary leveling in 1902 by George Bailey and in 1903 by George Seidel.

From Groveland along the Delaware, Lackawanna & Western R. R. to Mount Morris.

Groveland, first crossing east of station, north side of Delaware, Lackawanna & Western R. R., in concrete monument inside of fence east of crossing (reset by Delaware, Lackawanna & Western R. R.); bronze tablet stamped “601 Rochester”
Groveland, in front of station; top of rail. 588.9
Mount Morris, grade crossing of the Erie and Delaware, Lackawanna & Western railroads; top of rail. 574.2
Mount Morris, 1 mile north of, Delaware, Lackawanna & Western junction, grade crossing of Western New York & Pennsylvania Ry.; top of north rail. 587.6

From Mount Morris west along public road to Gibsonville (single-spur line).
Mount Morris, Scoville House, in doorsill at north side of front entrance; bronze tablet stamped “627 Rochester”. 627.144
Gibsonville, at road forks near old store, in boulder sunk in ground; bronze tablet stamped “726 Rochester”. 726.182

From Canaseraga north along public road to Ossian (single-spur line).
Ossian, east corner of foundation wall of Dr. T. H. Lamont’s residence; aluminum tablet stamped “1345 Albany 1903”. 1,343.826

OAK ORCHARD QUADRANGLE.
[Latitude 43° 15’-43° 30’; longitude 78°-78° 15’.]
Primary leveling in 1896 by E. L. McNair.
On circuits tied to canal bench marks.
Fairhaven, 1,200 feet south of, on east side of road to Albion, in top of stone masonry wall in front of Mrs. Dixon’s house; copper bolt stamped “439”. 438.206
East Gaines, 1 mile east by 1 mile south of W. H. Banker’s house, on west side of Transit road, 600 feet north of Murray and Gaines Baptist Church, in dooryard 12 feet south of dwelling, in stone 3 feet square and 1.5 feet high; copper bolt stamped “458”. 457.114
Murray, 610 feet north of road crossing on west side of road, 81 feet southwest of stone schoolhouse, in boulder 3 feet wide and 2 feet high; copper bolt stamped “410”. 409.458

OGDENSBURG QUADRANGLE.¹
[Latitude 44° 30’-44° 45’; longitude 75° 15’-75° 30’.]
Primary leveling by G. M. Dimmick in 1904.
From Ogdensburg southeast along highway to Heuvelton, thence northeast to Lisbon, thence northwest to Red Mills.
Ogdensburg, in west pier at mouth of Oswegatchie River, in United States lighthouse; 1-inch bolt (Deep Waterways P. B. M. D.). 251.022
Ogdensburg, 3.8 miles south of, 50 feet east of track, 100 feet west of road, 23 feet south of private road, in rock; bronze tablet stamped “308 Albany 1903 Adj”. 309.132
Heuvelton, in foundation wall of Presbyterian Church, east end of south face; bronze tablet stamped “315 Albany 1903 Adj”. 315.188
Flockville, in foundation wall of Presbyterian parsonage, west end of north face; bronze tablet stamped “364 Albany 1903 Adj”. 364.086
Lisbon, in foundation wall of Presbyterian Church, center of south face; bronze tablet stamped “357 Albany 1903 Adj”. 357.696

¹ See Bull. 514, pp. 22-23, 61, for other elevations.

From Heuvelton south along highway 9 miles, thence east 6 miles to De Kalb.

De Peyster, in foundation wall of Union Church, south end, east face; bronze tablet stamped "374 Albany 1903 Adj". 374.479

De Peyster, 3.56 miles south of, 101 feet northwest of corner of Thos. Towander's residence, 7 feet west of highway; tablet stamped "332 Albany 1903 Adj". 332.411

De Kalb, 0.9 mile northwest of, 600 feet southeast of residence of Horace Streeter, 50 feet north of center of highway; tablet in ledge, stamped "414 Albany 1903 Adj". 413.641

From De Kalb north along railroad to Rensselaer Falls, thence northwest to Heuvelton.

De Kalb, 4.17 miles north of, 300 feet northwest of highway crossing of the Rome, Watertown & Ogdensburg division of New York Central & Hudson River R. R., 150 feet northeast of residence of Van Hunters, 100 feet north of center of track, in solid rock; aluminum tablet stamped "393 Albany 1903 Adj". 393.221

Rensselaer Falls, in water table of Methodist Church, south end of west face; aluminum tablet stamped "328 Albany 1903 Adj". 327.544

De Kalb Junction, 0.8 mile northeast of (set in 1908); aluminum tablet stamped "462". 461.976

Olcott Quadrangle.

[Latitude 43° 15'-43° 30'; longitude 78° 30'-78° 45'.]

Primary leveling in 1896 by E. L. McNair.

From Lockport north 6.5 miles, thence east to Hartland, thence south to Gasport.

Ridgeroad, 1.5 miles northwest of, on road running east and west, 3 miles north of Wrights Corners, district 16, 30 feet southeast of schoolhouse, on granite boulder; copper bolt stamped "363 ft.". 362.466

Hartland, 0.75 mile north of, in front of W. T. Curtiss's house on west side of road, in line of ditch, in granite boulder nearly embedded in ground; copper bolt stamped "376 ft.". 375.21

Old Forge Quadrangle.

[Latitude 43° 30'-43° 45'; longitude 74° 45'-75°.]

Primary leveling in 1897 by Clark Brown and in 1898 by C. H. Semper.

From Fulton Chain northeast along road via Old Forge and north side of Fulton Chain Lakes to Eagle Bay.

Fulton Chain, 5 feet north of Wakeley's Hotel, 8 feet east of railroad track, in boulder; bronze tablet stamped "R 1712". 1,711.854

Old Forge, 0.25 mile west of railroad station, at picnic ground, in boulder 7 by 12 by 15 feet, north of railroad track; bronze tablet stamped "R 1733". 1,732.515

Third Lake, Fulton Chain, at Bald Mountain House, 40 feet east of dock, 8 feet from north shore of lake; iron post stamped "R 1712". 1,712.164

1 See Bull. 514, p. 98, for other elevations.
From Sixth Lake southeast to Fawn Lake.

Sixth Lake, Fulton Chain, 125 feet east of north end of dam, in boulder 4 by 10 feet, 4 feet from edge of dock; bronze tablet stamped "R 1788" 1,787.422

Sixth Lake dam, 1.6 miles south of, summit of Seventh Lake Mountain, in boulder 5 feet broad, 8 feet west of road; chiseled square 2,134.07

Fawn Lake, 1.5 miles southeast of, on road from Sixth Lake to Kenwells, 900 feet south of summit, 25 feet north of small brook, in boulder 12 feet square and 8 feet high, 10 feet east of road at south end of level stretch of road; bronze tablet stamped "R 2263" 2,262.079

From Woodhull northeast via trail to near Proctors camp, south branch Moose River (single-spur line).

Bisby lodge, on west shore of Bisby First Lake, about 400 feet north from lodge, 10 feet from bank, in shallow water, in 5 by 10 foot boulder; bronze tablet stamped "2035 R" 2,034.375

Deadmans Gulch, east of mouth, 20 feet north of Canachagala Stillwater of South Branch Moose River, near site of old dam, 14 feet above water, in large boulder; copper bolt stamped "1769 R" (this bench mark, connected with one at Kendalls, closed +2.9675, according to letter of Nov. 3, 1910, from Walter McCallock, consulting engineer New York State Water Supply Commission; elevation probably 3 feet less) 1,768.361

From North Lake east to Honnedaga Lake.

North Lake (Atwell post office), 100 feet east of State House, in rock; aluminum tablet stamped "1829 R" 1,828.245

Honnedaga Lake, 400 feet west of, on north side of road to North Lake, in large rock; bronze tablet stamped "2221 A" 2,221.110

Honnedaga Lake, Herkimer Landing, 325 feet from lake, 35 feet southwesterly from corner of barn, in very large boulder; copper bolt stamped "2223 Ft. R" 2,222.668

Honnedaga Forest Lodge, in south face of large boulder 50 feet north of office building; aluminum tablet stamped "2205 A" 2,205.015

From Honnedaga northeast to county line.

Honnedaga, 1.3 miles east of, at Herkimer-Hamilton county line, north side of trail, in large boulder (transit station No. 21 of county-line survey); bolt 2,149.390

OLEAN QUADRANGLE.

[Latitude 42°-42° 15'; longitude 78° 15'-78° 30'.]

Precise leveling in 1898 by E. L. McNair.

From Allegany northeast along Erie R. R. to Cuba.

Allegany, in front of Erie station; top of rail 1,415.8

Olean, in front of Erie station; top of rail 1,430.4

Olean, city hall and post-office building on State Street, northwest corner of, stone next under water table; bronze tablet stamped "1450 D" 1,451.790

Hinsdale, in front of Erie station; top of rail 1,493.5
Hinsdale, 2.25 miles east of, bridge seat of small girder bridge, 9.5 feet northwest of center of track; bronze tablet stamped “1508 D” 1, 509. 288 
Cuba, in front of Erie station; top of rail 1, 534. 9 
Cuba, 0.5 mile east of Erie station, at south end of pier of stone arch bridge over Union Street; aluminum tablet stamped “1517 Albany” (this is a new tablet set in 1903 in old hole) 1, 516. 789

Primary leveling in 1896 by E. L. McNair.

From Olean southeast to Portville, thence northeast to Clarksville.

Olean, in front of Western New York & Pennsylvania Ry. station; top of rail 1, 428. 5
Westons Mills, Haskell Creek highway bridge, near southeast corner of east abutment; top of coping stone 1, 425. 79
Allegheny River highway bridge; west end of north abutment 1, 433. 05
Portville, in front of Western New York & Pennsylvania Ry. station; top of rail 1, 436. 4
Portville, Presbyterian Church, in upper stone step at entrance; copper bolt stamped “U. S. G. S. B. M. 1438 Ft.” 1, 432. 143
Obi, 1 mile southwest of, Seventh Day Baptist Church, 85 feet from church doors, 10 feet from center of road, 3 feet from fence, on land belonging to Mrs. E. B. Adams, in large flat rock, on west side of road; copper bolt stamped “U. S. G. S. B. M. 1547 ft.” 1, 539. 910

From Olean north via Hinsdale toward Ischua.

Hinsdale, 1.5 miles south of Olean Creek bridge, Faye Hollow highway, in capstone of bridge foundation; copper bolt stamped “U. S. G. S. B. M. 1449 ft.” 1, 442. 079
Scott, 2.1 miles north of, west side of Hinsdale-Ischua road, in base of stone wall, under south side of barn of Harris Johnson, in large flat stone; copper bolt stamped “U. S. G. S. B. M. 1544 ft.” 1, 536. 378

ONEONTA QUADRANGLE.

[Latitude 42° 15'-42° 30'; longitude 75°-75° 15'.]

Precise leveling in 1898 by E. L. McNair.

From Wells Bridge northeast along Delaware & Hudson R. R. to Oneonta.

Wells Bridge, 300 feet west of station, northeast corner of highway bridge across Susquehanna River, in coping stone of abutment; bronze tablet stamped “1047 A” 1, 046. 657
Wells Bridge, in front of Delaware & Hudson station; top of south rail 1, 049. 5
Otego, in front of Delaware & Hudson station; top of rail 1, 063. 9
Otego, 1 mile east of, southeast corner of culvert, third step from top; bronze tablet stamped “1051 A” 1, 050. 145
Oneonta, State Normal School, in face of west pillar at main entrance; aluminum tablet stamped “1232 A” 1, 231. 912
Oneonta, in front of Delaware & Hudson station; top of north rail 1, 083. 9
Oneonta, Delaware & Hudson station; southwest corner of doorsill of door into waiting room and dining hall (door faces track and is east of office window) 1, 086. 469
Precise and Primary Leveling.

Precise leveling in 1901 by D. H. Baldwin.

From Franklin station southeast along New York, Ontario & Western R. R. to Northfield.

Franklin station, crossing; top of north rail .......................... 1,582.2
Merrickville, at crossing; top of north rail .......................... 1,700.0
Northfield, 0.37 mile northwest of, 30 feet south of south end of Zigzag tunnel, vertical face of rock on west side of track about 6 feet above rail; aluminum tablet stamped “1766 Albany 1901” (not found 1915) .................................................. 1,766.90
Northfield, 0.37 mile northwest of, at railroad summit, north end of oil house; top of east rail .................................................. 1,765.1
Northfield, in front of station; top of northeast rail .................. 1,757.2

Leveling in 1914 by F. L. Shalibo.

From Wells Bridge along highway north to point near Maple Grove, thence east to Oneonta.

Wells Bridge, 300 feet west of station, northeast corner of highway bridge across Susquehanna River, in coping stone of abutment; bronze tablet stamped “1047” .................................................. 1,046.657
Hughston Corners, 1 mile east of, 0.7 mile west of Briar Creek road, on north side of road, on stone in fence; chiseled square marked “U. S. G. S. T. B. M. 1723” .................................................. 1,723.27
Hughston Corners, 1.7 miles east of, over hill road to three corners at Briar Creek road; chiseled square marked “U. S. T. B. M. 1520” .................................................. 1,520.12
Hughston Corners, 2.8 miles northeast of, on Briar Creek road at three corners in front of A. J. Lent’s residence, on east side of road, in stone; chiseled square marked “U. S. T. B. M. 1601” ................. 1,600.59
Hughston Corners, 3 miles north of, in foundation of schoolhouse, district 6; bronze tablet stamped “1618” ........................................ 1,617.646
Hughston Corners, 3.7 miles northeast of, junction of Briar Creek and Flax Island roads, on east side of road, in stone; chiseled square marked “U. S. T. B. M. 1857” .................................................. 1,857.26
Hughston Corners, 4.6 miles northeast of, 200 feet south of three corners near S. A. Strait’s residence, on east side of road, in root of tree; copper nail marked “U. S. T. B. M. 1510” ......................... 1,509.89
Cook’s Corners, 6 miles west of, at bend of road on top of hill, in front of Charles Gardner’s residence on west side of road, in stone; chiseled square marked “U. S. G. S. T. B. M. 1825” ......................... 1,823.04
Cook’s Corners, in front of B. A. Cook’s residence, in stone step; chiseled square marked “U. S. G. S. T. B. M. 1609” ......................... 1,609.12
Cook’s Corners, 1.1 miles east of, at northeast corner of schoolhouse, district 16, in stone; bronze tablet stamped “U. S. G. S. P. B. M. 1720” .................................................. 1,720.112
Cook’s Corners, 2.5 miles east of, at three corners on north side of road, opposite Charles Holbrook’s residence, in stone; chiseled square marked “U. S. T. B. M. 1536” .................................................. 1,535.62
Otsdawa, at northeast corner of four corners, in stone of stone wall; chiseled square marked “U. S. T. B. M. 1409” ......................... 1,409.16
Otsdawa, 9 miles east of, at three corners, road running south, 150 feet east of corners, on south side of road, in rock; bronze tablet stamped “1690” .................................................. 1,689.771

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Otsdawa, 1.9 miles east of, in front of schoolhouse, district 14, on iron sluiceway; chiseled cross marked "U. S. G. S. T. B. M. 1480"—1,480.16

Otsdawa, 2.9 miles east of, 9 miles west of West Oneonta, at bend of road, on south side of road, in root of tree; copper nail marked "U. S. G. S. T. B. M. 1314"—1,313.40

West Oneonta, at four corners, in cement step leading to town clerk's office, under E. H. Culver's store; bronze tablet stamped "U. S. P. B. M. 1144"—1,144.032

West Oneonta, 1.1 miles south of, 300 feet south of bridge over Otego Creek, in cement culvert on east side of road; chiseled square marked "U. S. T. B. M. 1065"—1,065.27

West Oneonta, 2.1 miles southeast of, at four corners, in front of Junction Hotel, on nut on southeast corner of switch stand marked "U. S. T. B. M. 1118"—1,116.41

Oneonta, at junction of Chestnut Street and Fonda Avenue; nut on top of water hydrant, marked "U. S. T. B. M. 1108"—1,106.33

Oneonta, State Normal School, in face of west pillar, at main entrance; aluminum tablet stamped "1232 A"—1,231.912

Oneonta, State Normal School, in face of west pillar at main entrance; aluminum tablet stamped "1232"—1,231.912

Oneonta, on concrete curb at southeast end of highway bridge over Delaware & Hudson R. R. tracks; chiseled circle painted "t. b. m. 1,106.8"—1,106.75

Oneonta, 3.5 miles south of, along turnpike to North Franklin, 375 feet south of road fork, at divide, east margin of road, in ledge; bronze tablet stamped "N. Y. 1850"—1,850.265

Oneonta, 5 miles south of, 1,200 feet south of Mrs. E. Blanchard's farm, on boulder, west margin of road; chiseled square painted "t. b. m. 1,565.3"—1,565.31

North Franklin, in southwest concrete abutment of bridge over Ouleout Creek; bronze tablet stamped "N. Y. 1334"—1,334.487

North Franklin, 1 mile south of, on ledge in east margin of road; chiseled square painted "t. b. m. 1,740.8"—1,740.90

Case Hill Corner, at northwest corner of barn, in rock; chiseled square painted "t. b. m. 1,871.3"—1,871.42

Treadwell, 0.3 mile north of, in northwest abutment of bridge over South Fork of Ouleout Creek; bronze tablet stamped "N. Y. 1496"—1,495.85

Treadwell, 1.6 miles south of, 300 feet south of Roaring Brook school, in northwest corner of concrete culvert over Roaring Brook; chiseled square painted "t. b. m. 1,769.4"—1,769.53

West Delhi, 2 miles north of, at corner, on rock in west margin of road; chiseled circle painted "t. b. m. 2,047.5"—2,047.68

West Delhi, at four corners in northwest abutment of bridge over East Fork of Platner Brook; bronze tablet stamped "N. Y. 1795"—1,795.502
PRECISE AND PRIMARY LEVELING.

ORISKANY QUADRANGLE. 1

[Latitude 43°-43° 15'; longitude 75° 15'-75° 30'.]

Precise leveling in 1901 by D. H. Baldwin.

From Utica south along Delaware, Lackawanna & Western R. R. to Sauquoit.

Utica, Pleasant Avenue, Delaware, Lackawanna & Western R. R. crossing; top of east rail_________________________ Feet.

New Hartford, junction with trolley at station; top of east rail___________________ 477.8

Washington Mills, crossing; top of east rail___________________ 616.6

Willowvale, crossing; top of east rail___________________ 658.1

Chadwick, 0.5 mile north of, 75 feet west of Delaware, Lackawanna & Western R. R. track, brick storehouse of Utica-Willowvale Bleaching Co., in sandstone water table at east end of north wall; aluminum tablet___________________ 690.719

Chadwick, crossing at station; top of east rail___________________ 721.4

Sauquoit, crossing at station; top of east rail___________________ 822.4

Primary leveling in 1904 by G. M. Dimmick.

From Paris station north to Paris, thence east to Sauquoit.

Paris, in foundation wall of Episcopal Church, south end of west face; bronze tablet stamped "1497 Adj 1903"___________________ 1,497.371

ORWELL QUADRANGLE.

[Latitude 43° 30'-43° 45'; longitude 75° 45'-76°.]

Primary leveling in 1902 by J. B. Maguire.

From Greenboro east along road to Hooker.

Oswego-Lewis county line, 0.25 mile north of, in large boulder on northwest side of road; aluminum tablet stamped "1696 Albany"___________________ 1,695.582

From Greenboro west along road to Smartville, thence south to Altmar.

Greenboro, on State road at post office, in face of east wall of culvert; bronze tablet stamped "1269 Albany"___________________ 1,268.538

Orwell, northwest corner of crossroads, northeast corner of foundation of public fountains; bronze tablet stamped "810 Albany"_______ 809.587

From Clemens Corners west to Redfield, thence north to Greenboro.

Redfield, in north foundation of Methodist Church; aluminum tablet stamped "952 Albany"___________________ 951.005

From Greenboro north via highway to school 7, Lorraine Township (single-spur line).

East Boylston, 1.1 miles north of, school 7, Lorraine Township, Jefferson County, west side of Greenboro-Lorraine road, in large boulder; aluminum tablet stamped "1262 Albany"___________________ 1,261.160

From 3 miles northeast of Altmar, southeast to Ricard.

Ricard, 0.5 mile north of post office, 0.1 mile south of Orwell-Williamston township line, in front face of foundation of Armstrong's house on west side of road; bronze tablet stamped "759 Albany"_______ 758.729

1 See Bull. 514, pp. 76-78, for other elevations.

OSWEGATCHIE QUADRANGLE.

[Latitude 44°–44° 15'; longitude 75°–75° 15'.]

Leveling by A. P. Meade, jr., in 1914.

From Bacon east along New York Central & Hudson River R. R. (Carthage & Adirondack branch) to Benson mines, thence south along highways to Leon Kelley's 1911 camp.

Bacon, 2 miles east of, south of railroad, in west end of cliff, on big rock; chiseled square marked "1001.4".................. 1,001.44

Bacon, 2.7 miles east of, at Millers Crossing, south of track, 100 feet east of road, in big rock; bronze tablet stamped "1031"..... 1,030.959

Bacon, 3.4 miles east of, on south side of railroad, on stone; chiseled square marked "1053".......................... 1,052.72

Bacon, 3.6 miles east of, in south side of east end of culvert over river; end bolt........................................ 1,067.17

Bacon, 3.7 miles east of; crossing west of Kalurah................ 1,070.0

Kalurah, on east side of road crossing, in south end of tie; copper nail.................................................. 1,093.25

Kalurah, 0.4 mile east of, at railroad crossing of trail to Long Pond, on north side of track, in platform; copper nail............ 1,094.16

Kalurah, 0.4 mile east of, 450 feet north of Long Pond; surface of water, Aug. 21, 1914........................................ 1,096.4

Kalurah, 0.6 mile east of, in south side of culvert; west bolt.... 1,092.32

Kalurah, 0.8 mile east of, in south side of culvert; west bolt.... 1,093.41

Kalurah, 1.2 miles east of, 50 feet east of milepost 58, 5 feet south of track; top of vertical rail............................ 1,103.14

Twin Lake or Pond; surface of water, Aug. 21, 1914.............. 1,093.9

Jayville, 500 feet west of, 200 feet west of water tower, 18 feet south of Smith tower, in big rock; bronze tablet stamped "1121"..... 1,121.464

Jayville; top of rail at station.................................... 1,122.0

Jayville, 0.5 mile east of, 30 feet southeast of milepost 59, 4 feet south of track; top of vertical rail......................... 1,163.05

Jayville, 1.3 miles east of, 30 feet east of milepost 60, 5 feet south of track; top of vertical rail............................ 1,233.060

Jayville, 2.4 miles east of, on east side of milepost 61; top of iron brace nearest to track..................................... 1,313.39

Jayville, 2.7 miles east of, opposite Bear Lake, in center of track; copper nail marked "1326"................................. 1,325.56

Bear Lake; surface of water, Aug. 21, 1914......................... 1,297.5

Jayville, 3.6 miles east of, 0.4 mile southwest of Briggs, 50 feet east of milepost 62, on south side of track, in west end of cement culvert; bronze tablet stamped "1389".......................... 1,389.161

Briggs, 110 feet west of, 15 feet north of track, in big rock; chiseled and painted square (railroad b. m.).......................... 1,411.49

Briggs, 0.1 mile east of, at crossing; top of high rail marked "1421".. 1,421.3

Briggs, 0.4 mile east of; railroad summit.......................... 1,438.2

Briggs, 0.6 mile east of, at west end of fill, on north side of track; square mark marked "1429"................................. 1,429.05

Briggs, 0.7 mile east of, 45 feet east of milepost 63; top of vertical rail................................................... 1,422.65

Briggs, 1.3 miles east of, 30 feet west of Vaughns switch, on south side of culvert, on guardrail; top of west bolt............. 1,407.15

Briggs, 1.3 miles east of, at road crossing; top rail................ 1,401.7
Precise and Primary Leveling.

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Briggs, 1.6 miles east of, at milepost 64, west of track; top of iron brace nearest to railroad.................................................. 1,391.92
Aldrich, 30 feet west of, at crossing; top of south rail.................................................. 1,344.88
Aldrich, 0.3 mile northeast of station, in southwest corner of abutment of railroad bridge over Little River, 1 foot from edge of abutment, 86 feet west of center of bridge; bronze tablet stamped "Prim. Trav. Sta. No. 1, 1913, 1333"................................. 1,333.318

Aldrich, 1.2 miles northeast of, 10 feet north of milepost 66, 6 feet east of track, on big rock; chiseled and painted square marked "1361".................................................. 1,360.93
Railroad summit ......................................................................................................................... 1,369.9
Aldrich, 2.3 miles northeast of, at milepost 67, 6 feet south of track; top of north iron brace of post.................................................. 1,365.14
Coffins Mills, at road crossing, east of road, north of railroad, on big stone; chiseled cross.................................................. 1,366.26
Coffins Mills, at milepost 68, on south side of track; top of nearest one to track of two iron braces.................................................. 1,375.20
Ossegatchie, 200 feet east of station, at road crossing, on east side of road, 25 feet south of railroad, 100 feet from hotel; bronze tablet stamped "1372".................................................. 1,371.932
Ossegatchie, 0.8 mile east of, at milepost 69, 6 feet south of track; top of iron brace nearest track.................................................. 1,346.86
Ossegatchie, 1.8 miles east of, at milepost 70; top of iron brace nearest rack.................................................. 1,368.12
Ossegatchie, 2.1 miles east of, at road crossing; top of high rail.................................................. 1,382.6
Ossegatchie, 2.9 miles east of, at milepost 71; top of iron brace nearest track.................................................. 1,436.30
Ossegatchie, 3.9 miles east of, at milepost 72; top of iron brace nearest track.................................................. 1,406.62

Benson Mines, 188 feet northeast of station, in concrete base of water tower; bronze tablet stamped "Prim. Trav. Sta. No. 2, 1913, 1406".................................................. 1,405.925
Little River; floor of bridge over.................................................. 1,401.7
Little River; surface of water, Aug. 25, 1914.................................................. 1,394.0

Benson Mines department store and post office, at forks of roads, at east end of wooden culvert drain; copper nail.................................................. 1,407.12
Benson Mines, 0.7 mile southwest of, at Post Henderson R. R. to south; top of rail.................................................. 1,399.02
Benson Mines, 1.2 miles south by west of, at foot of second grade, on north side of road, on big stone; chiseled circle (an old bench mark).................................................. 1,442.47

Starlake village, Grove Hotel north of, at crossroads, on southeast corner of pump floor; copper nail.................................................. 1,455.73
Starlake post office, in front of Sunnyside Inn, at forks of roads, on stone; chiseled square.................................................. 1,488.61
Star Lake; surface of water, Aug. 25, 1914.................................................. 1,449.6
Starlake, 0.5 mile south of, at top of grade, on south side of road, on rock in bank; chiseled square.................................................. 1,511.62

Starlake, 1 mile south of, west of road, on fence line, 500 feet north of J. E. Kenny's house, on big rock; bronze tablet stamped "1427".................................................. 1,427.457
Starlake, 1.7 miles south of; floor of bridge over Little River.................................................. 1,390.16
Little River; surface of water, Aug. 25, 1914.................................................. 1,380.1
Starlake, 2.3 miles south of, at southwest corner of forks of roads, at private road west, on top of fence post; copper nail.................................................. 1,455.49
Starlake, 2.8 miles south of; floor of bridge over Tamarac Creek.................................................. 1,388.8

Feet.

Tamarac Creek; surface of water, Aug. 26, 1914 ____________ 1,383.3
Starlake, 3.4 miles south of, on west edge of road, on top of big stump; copper nail ____________________________ 1,445.30
Starlake, 3.9 miles southwest of, in small creek running east to Tamarac Creek; surface of water, Aug. 26, 1914 ____________ 1,430.3
Starlake, 4 miles southwest of, on east side of road, on big rock; chiseled square ____________________________ 1,436.87
Starlake, 4.5 miles southwest of, on east side of road on grade, in root of maple tree; copper nail ____________________________ 1,525.04
Starlake, 4.9 miles southwest of, on west side of road, 5 feet south of big brick blazed rock; bronze tablet stamped “1541” ____________________________ 1,541.330
Starlake, 5.3 miles southwest of; corduroy bridge over Streeter Lake outlet stream ____________________________ 1,455.4
Streeter Lake outlet stream; surface of water, Aug. 27, 1914 ____________ 1,451.9
Starlake, 5.5 miles southwest of, at forks of roads, on east side of road to Ball Bros.' lumber camps, on big stone; chiseled square ____________ 1,495.08
Starlake, 5.8 miles southwest of, at forks of roads, T road (private) west to Streeter Lake, on big stone; chisel mark ____________________________ 1,507.56
Streeter Lake; surface of water, Aug. 27, 1914 ____________ 1,486.1
Starlake, 6.9 miles southwest of; corduroy floor of bridge ____________________________ 1,488.12
Surface of water of creek under bridge, Aug. 28, 1914 ____________ 1,486.0
Pansy Lake outlet stream, at corduroy bridge; surface of water ____________ 1,487.0
Starlake, 7.9 miles southwest of, 15 feet east of road, on west end of big rock; chiseled square ____________________________ 1,512.28
Starlake, 8.6 miles southwest of; point on big rock in road ____________ 1,508.18
Middle Branch of Oswegatchie River; surface of water, Aug. 29, 1914 ____________ 1,500.3
Francis old camp, at trail south to river, 15 feet south of bung house, 1.5 feet above ground on tree; copper nail ____________________________ 1,547.01
Francis old camp; surface of water in creek to south ____________ 1,537.2
Francis camp, 0.8 mile southwest of; surface of water in brook, Aug. 30, 1914 ____________ 1,531.0
Francis camp, 1.2 miles southwest of, at road forks, in road; top of stone ____________________________ 1,594.89
Francis camp, 2.2 miles southwest of, center of big corduroy bridge ____________ 1,592.4
Francis camp, 2.3 miles southwest of, at forks of trail and road, on stone; chiseled square ____________________________ 1,609.45
Francis camp, 2.4 miles southwest of, east of trail, at northwest corner of Totten and Crossfield purchase; top of St. Lawrence-Herkimer county line granite monument 4 feet high, 12 inches square, marked “St. Lawrence County” on one side and “Herkimer County” on the opposite side ____________________________ 1,622.610
Francis camp, 2.7 miles southwest of, on north side of Middle Branch of Oswegatchie River, on north end of big bridge, on stone; marked point ____________________________ 1,638.60
Middle Branch of Oswegatchie River; surface of water, Sept. 2, 1914 ____________ 1,626.7
Alder Bed driving camp, 0.1 mile southwest of, 30 feet west of stable, 20 feet southwest of shed, on rock; chiseled square ____________________________ 1,649.45
Alder Bed driving camp, 0.2 mile southwest of; corduroy bridge (water runs north) ____________________________ 1,636.0
Alder Bed driving camp, 0.5 mile southwest of, on big rock in corduroy road; chiseled square. 1,669.11
Alder Bed driving camp, 1.8 miles south of, at summit of ridge, on large flat granite rock at edge of road, maple tree 15 feet south, blazed on three sides, beech tree opposite; bronze tablet stamped "Prim. Trav. Sta. No. 6, 1913, 2039". 2,039.389
Alder Bed driving camp, 2.9 miles southwest by south of, 0.3 mile west of Kelley's camp, on south side of road, in top of stump; copper nail. 1,809.26
Kelley's camp, 0.2 miles north of; surface of water in creek at road to Massawepie north, Sept. 8, 1914. 1,772.4
Kelley's camp, 15 feet southwest of tool house, 40 feet south of storehouse, 12 feet east of dead birch tree, on rock; chiseled square. 1,773.38
Kelley's camp, 1 mile south of, at forks of road and log road, 30 feet from corduroy road, on rock in road; chiseled square. 1,773.50

From Oswegatchie northwest along highways to Fine, thence southwest to Kalurah.

Oswegatchie, 200 feet east of station, at road crossing, on east side of road and 25 feet south of railroad, 100 feet north of hotel; bronze tablet stamped "1872". 1,871.932
Oswegatchie school; ground. 1,297
Oswegatchie, 0.8 mile north of, on south end of bridge over Little River, on east side of road, on top of big rock; chiseled square. 1,162.92
Oswegatchie, 1 mile north of, at T road east, at northeast corner of roads, 9 feet southwest of telephone pole, on highest rock; chiseled circle marked "1183". 1,182.81
Oswegatchie, 1.3 miles north of, at T road west, 10 feet southeast of big black rock, 30 feet southeast of another big rock, on stone; chiseled square. 1,259.75
Oswegatchie, 2 miles north of, on east side of highway, 50 feet south of maple grove, on granite bowlder; chiseled mark. 1,201.69
Oswegatchie, 2.2 miles north of, at southwest corners of roads, on stone at edge of field; chiseled square. 1,182.20
Oswegatchie, 2.7 miles northwest of, at T road west, on east side of highway and south side of private road, on big rock; chiseled square. 1,203.34
Oswegatchie, 3 miles north of, east of highway, at corner of fences, opposite house owned by Charles Akins, on big flat rock; bronze tablet stamped "1199". 1,199.192
Oswegatchie, 3.7 miles northwest of; east end of cement culvert. 1,062.6
Oswegatchie, 4.2 miles northwest of, on southeast corner of west wall of cement culvert, at end of wooden fence, house 200 feet west; chiseled square. 1,010.50
Oswegatchie, 5 miles north of, on southwest corner of Scotts bridge over Oswegatchie River; end bolt. 1,009.10
Oswegatchie River; surface of water, Sept. 8, 1914. 998.5
Oswegatchie, 5.1 miles north of, on west side of highway, at road to school, on grade, on stone; chiseled square. 1,024.08
Oswegatchie, 5.6 miles northwest of, at T road north to Russell, on west side of road, on rock; chiseled square. 1,015.03
Oswegatchie River; surface of water at bend, Sept. 8, 1914. 989.0
Oswegatchie, 6.6 miles north of, at top of grade, on north side of road, on rock; chiseled square. 1,026.69

Oswegatchie, 7.2 miles north of, at T road south, on north side of road, on rock under cliff; chiseled square. 1,001.50

Fine, east end of village, 50 feet east of T road north, on north side of road, in large boulder; bronze tablet stamped “Prim. Trav. Sta. No. 4, 1913. 977.” 977.268

Fine, just southwest of, at top of grade, at T road south, on north side of road, on rock under cliff; chiseled square. 1,001.50

Oswegatchie River, on stone coping; chisel mark. 988.46

Oswegatchie River, surface of water, Sept. 9, 1914. 970.0

Fine, 1.5 miles southwest of, at fork of roads, 15 feet east of main road to Pitcairn, south of road running east, on top of big stone in field; chiseled square. 996.36

Fine, 1.7 miles southwest of, on culvert; northeast corner of north wall. 985.0

Surface of water of small pond north of road, Sept. 9, 1914. 976.3

Fine, 2.3 miles southwest of, southeast across road from triangle of three roads, at road fork, on top of stone; square mark. 992.07

Fine, 3 miles west of, on west abutment at southwest corner of bridge over Yellow Creek; bronze tablet stamped “926.” 926.285

Fine, 3.4 miles west of, at forks of roads, at T road south, 65 feet south of main road, on east side of road to south, on rock; chiseled square. 962.09

Fine, 4.3 miles west of, 50 feet east of road fork south to Greenwood farm, in root of big pine tree; copper nail. 869.53

Fine, 5 miles west by southwest of; bridge over Greenwood Creek. 880.70

Greenwood Creek, surface of water under bridge, Sept. 10, 1914. 875.0

Fine, 5.2 miles west by southwest of, 75 feet south of bridge over Greenwood Creek, in top of big stone; chiseled square. 885.92

Fine, 5.9 miles west by southwest of, at Moore’s mill, on northeast platform over water slide; copper nail. 933.87

Fine, 6 miles southwest of, 1,000 feet south of Moore’s mill, at turnout in road, on big rock; bronze tablet stamped “954.” 954.457

Fine, 7.1 miles southwest of, 1 mile south of Moore’s mill, at forks of trail, in root of ash tree; copper nail. 1,040.38

Fine, 7.7 miles southwest of, 1.6 miles south of Moore’s mill, at old cabin, 20 feet south of road, 50 feet from cabin, in root of beach tree; copper nail. 1,027.89

Fine, 7.8 miles southwest of, 1.7 miles south of Moore’s mill, at forks of trails, in top of stone; chisel mark. 1,039.43

Fine, 8.7 miles southwest of, 0.15 mile south of old cabin, on grade opposite cliff, on east side of road, 50 feet southwest of dead stump, on stone; chisel mark. 1,048.87

Kalurah railroad station, on east side of road crossing, on south end of tie; copper nail. 1,093.25

From Alder Bed driving camp west along highway to Middle Branch settlement.

Alder Bed driving camp, 30 feet west of stable, 20 feet southwest of shed, on top of rock; square mark. 1,649.45

Alder Bed driving camp, 0.25 mile west of, on rock in road; chiseled square. 1,673.51

Alder Bed driving camp, 1 mile west of, at station 15, on stone in road; square mark. 1,897.38
PRECISE AND PRIMARY LEVELING.

Alder Bed driving camp, 1.2 miles west of, at station 17; point on stone
Feet. 1,833.92
Station 24, 25 feet east of; bridge (water runs southwest) 1,825.02
Massawepie Lake; surface of water, Sept. 26, 1914 1,825.0
Alder Bed driving camp, 2.3 miles west of, 25 feet southeast of old
Massawepie camp, at station 28, on north side of trail, on rock; chiseled square 1,810.37
Alder Bed driving camp, 2.4 miles west of, at station 29, in center of road; top of rock 1,793.73
Alder Bed driving camp, 2.7 miles west of, at station 32, 4 feet north of blazed tree, in top of rock; chiseled square 1,794.23
Alder Bed driving camp, 2.9 miles west of, at station 34, on north side of road, in rock; chiseled square 1,736.45
Alder Bed driving camp, 3.25 miles west of; point on bridge over creek 1,595.14
Surface of water, Sept. 29, 1914 1,593.0
Alder Bed driving camp, 3.5 miles west of, at station 40, on stone; chiseled square 1,619.79
Alder Bed driving camp, 3.8 miles west of, south of road at station 43, on top of big stone; chiseled square 1,594.52
Alder Bed driving camp, 4 miles west of, near station 45, in road, on rock; chiseled square 1,661.13
Camp 1, 100 feet northeast of Mannigan's bunk house, on big rock; bronze tablet stamped "1622" 1,621.69
Camp 1, 0.6 mile west of, on stone at forks of T road and turn-off road; chiseled square 1,526.23
Camp 1, 1.5 miles west of, on north end of corduroy bridge, on rock in creek; chiseled square marked "1520" 1,519.87
Camp 1, 1.8 miles west of, at forks of turnout road and main road, at foot of beech tree, on south side of road, on rock; square mark 1,482.62
Camp 1, 2.3 miles west of, southeast of Shaws camp, No. 250, on big rock; chiseled square 1,386.72
Camp 1, 3.4 miles west of, on north side of road, on east side of creek, 18 feet east of corduroy road, on top of stone; chiseled square 1,333.86
Camp 1, 3.9 miles west of, at forks of main trail and road to Wallace camp, in root of beech tree; copper nail 1,344.01
Camp 1, 4 miles west of, at forks of main road and turn off, in root of tree; copper nail 1,239.19
Camp 1, 4 miles west of, 100 feet east of Cold Spring Creek, on south side of road, on big rock; bronze tablet stamped "1220" 1,220.45
Cold Spring Creek (runs southwest); surface of water, Oct. 4, 1914 1,208.9
Camp 1, 4.3 miles west of, at forks of main road and cut-off, on root of beech tree; copper nail 1,254.94
Camp 1, 5.1 miles west of, on main road south to Mullins camp, 30 feet east of junction of roads, in root of beech tree; copper nail 1,170.93
Bryant's bridge, 0.6 mile east of, 11.2 miles west of Alder Bed driving camp, on southwest side of road, in beech tree; copper nail 1,177.60
Bryant's bridge, 0.1 mile east of, at junction of road and road south to Sugarbush, on top of stone; chisel mark 1,063.89
Bryant's bridge, over Oswegatchie River, on southeast corner of bridge; bolt 1,915.70

OSWEGO QUADRANGLE. 1

[Latitude 43° 15′–43° 30′; longitude 76° 30′–76° 45′.]

Primary leveling in 1898 by D. E. Baxter.

From Red Creek northeast to Oswego.

Red Creek, on Second Street, Red Creek Academy, 225 feet north of Rome, Watertown & Ogdensburg R. R., on west side of street; aluminum tablet in stone foundation, stamped “355 Oswego” ______ 356.410

Red Creek, 200 feet west of station, road crossing; top of rail ______ 335.3

Sterling, 2.1 miles southwest of, railroad bridge over highway, fourth step of east wing of north abutment; chiseled square ______ 339.48

Sterling, at crossing of the Rome, Watertown & Ogdensburg and the Lehigh Valley railroads; top of rail ___________________________ 321.0

Hannibal, schoolhouse on Oswego Street, in stone doorsill of north entrance; aluminum tablet stamped “354 Oswego” ___________ 355.057

Oswego, 3.5 miles north of, wharf line of south side of basin, 5 feet from east face of old United States stone pier at foot of West Third Street; top of iron bolt flush with top of masonry, stamped “U. S.+B. M.” ___________________________ 251.898

Oswego, northeast corner of post-office building, corner of Oneida and West First streets, in water table; aluminum tablet stamped “295 Oswego” ___________________________ 295.753

OVID QUADRANGLE.

[Latitude 42° 30′–42° 45′; longitude 76° 45′–77°.]

Primary leveling in 1899 by C. H. Semper and W. F. Hammond.

From Himrod south along the Fall Brook Ry. to Reading Center.

Himrod, 500 feet north of, on west south abutment of bridge on Northern Central Ry.; chisel mark ___________________________ 799.10

Dundee, on foundation of railway water tank; chisel mark ___________ 989.52

From Kendaia south along the Lehigh Valley R. R. to Hector.

Kendaia, 40 feet east of railroad on highway, in northwest corner of foundation wall of grain*elevator; bronze tablet stamped “614 Oswego 1899” (destroyed 1909) ___________________________ 614.856

Kendaia, 2.2 miles south of, at railroad crossing, in south wall west side of cattle pass; top of iron bolt (No. 329, L. V.) ___________ 648.46

Kendaia, 3.5 miles south of, 30 feet east of railroad at road crossing, in masonry road culvert; top of iron bolt (No. 328, L. V.) ___________ 671.72

Willard, in masonry on west side of railroad in first highway south of station; top of iron bolt (No. 326, L. V.) ___________ 709.09

Willard, 0.8 mile south of, in top of stone cattle pass, northwest side of railroad; top of iron bolt (No. 326, L. V.) ___________ 722.15

Willard, 3.2 miles south of, in masonry of overhead bridge on northwest side; top of iron bolt (No. 323, L. V.) ___________ 774.17

Lodi, 0.8 mile south of, overhead farm bridge on northwest wing in step; top of iron pin (No. 322, L. V.) ___________ 801.22

1 See Bull. 514, pp. 90–91, for other elevations.
PRECISE AND PRIMARY LEVELING.

Lodi, 1.9 miles south of, in top of masonry of creek bridge on east side of railroad; top of iron bolt (No. 321, L. V.)________________ 817.73 Feet.
Lodi, 2.9 miles south of, in top of wall of cattle pass on northeast side of railroad; top of iron pin (No. 320, L. V.)________________ 829.82
Caywood, 0.2 mile south of, top of stone culvert masonry, on southeast side; top of iron bolt (No. 319, L. V.)________________ 839.37
North Hector, 0.5 mile south of station, 0.2 mile west of railroad, In masonry of basket factory, on crossroads; bronze tablet stamped "840 Oswego 1899"__________________________ 840.639

From Fayette south along the Lehigh Valley R. R. to Ovid Center.
Hayt Corners, 2.2 miles north of, on southwest side of railroad. 30 feet west of road; top of iron bolt stamped "B. M. 333" (L. V.)___ 742.53
Hayt Corners, 1.6 miles north of, 1,500 feet east of railroad crossing, 20 feet east of red farm gate; top of iron bolt (B. M. 333 L. V.)____ 740.08

From Trumansburg west to East Steamburg (single-spur line).
East Steamburg, northeast corner of Sherwood's house, 200 feet northwest of northwest corner of crossroads, in east wall; bronze tablet stamped "1544 Oswego"________________________ 1,544.396

OWEGO QUADRANGLE.
[Latitude 42°-42° 15'; longitude 76° 15'-76° 30'.]
Precise leveling in 1898 by E. L. McNair.

From Barton northeast along Erie R. R. to Owego.
Barton, in front of Erie station, westbound track; top of north rail________________ 797.6
Barton, 1.2 miles east of, southeast corner of bridge 40, in coping stone of abutment; aluminum tablet stamped "798 A"____________________ 797.517
Smithboro, in front of Erie station, westbound track; top of south rail__________________________ 793.1
Tioga Center, in front of Erie station, westbound track; top of south rail__________________________ 797.7
Owego, 2.25 miles west of Erie station, southeast corner of bridge 37, in coping stone of abutment; aluminum tablet stamped "815 A"____________________ 815.028
Owego, 700 feet west of station, westbound track at crossing of Ithaca branch of Lackawanna R. R.; top of north rail__________________________ 816.6
Owego, in front of Erie station, westbound track; top of north rail__________________________ 816.9

Primary leveling in 1898 by W. W. Gilbert and in 1900 by W. E. Green.

From Owego north along railroad to Gridleyville.
Owego, in northwest corner of foundation wall of courthouse; aluminum tablet stamped "818 Albany"__________________________ 818.387
Catatonk, at road crossing into sawmill yard; top of rail____________________ 849.8
Candor, at road crossing south of station; top of rail____________________ 892.8
Gridleyville, 0.8 mile south of bridge 10, in northeast pedestal stone; bronze tablet stamped "919 Albany"__________________________ 918.464
Gridleyville, at road crossing; top of rail__________________________ 928.4

From Owego south along highway to Gibson Corners.

Owego, Main Street road crossing; top of rail 807.8
Kile triangulation station, 2.8 miles south of Owego; top of stone monument 1,280.349
Gibson Corners, 1.5 feet from south end of schoolhouse, in west side wall; bronze tablet stamped “1531 Albany” 1,531.558

From Spencer south to Halsey Valley (single-spur line).

Halsey Valley, northwest corner of Dr. H. P. Vosburgh’s house; bronze tablet stamped “1065 Albany” 1,065.618

From Van Etten east along the Lehigh Valley R. R. to North Candor.

Spencer, Lehigh Valley R. R. crossing; top of rail 999.9
Spencer, southwest corner of Main and Tioga streets, in water table on north side of Fisher block, 1 foot east of northwest corner; bronze tablet stamped “A 995” 995.395
East Spencer, Lehigh Valley R. R. station; top of rail 986.3
West Candor, Lehigh Valley R. R. station; top of rail 955.9
North Candor, Lehigh Valley R. R. station; top of rail 948.7

OXFORD QUADRANGLE.

[Latitude 42° 15’–42° 30’; longitude 75° 30’–75° 45’.]

Primary leveling in 1900 by G. H. Semper and W. E. Green.

From Guilford along the New York, Ontario & Western Ry. to Norwich.

Summit, in front of station; top of rail 1,623.0
Oxford, at road crossing near station; top of rail 1,399.1

From Afton north along highway to Coventryville (single-spur line).

Coventryville, William Lyman’s store, 8 feet from northeast corner, in foundation wall; aluminum tablet stamped “1435 Albany” 1,435.291

From Greene northeast along the Delaware, Lackawanna & Western R. R. to Oxford.

Brisbin, 500 feet west of station, in north end of east abutment of highway bridge over Chenango River; bronze tablet stamped “927 Albany” 927.277
Coventry, waiting room at station; doorsill 959.00
Oxford, Water Street crossing; top of rail 960.5
Oxford, southeast corner of Citizens’ Opera House, in foundation wall; aluminum tablet stamped “982 Albany” 982.402

OYSTER BAY QUADRANGLE.

[Latitude 40° 45’–41° 5'; longitude 73° 30’–73° 45’.]

Primary leveling in 1897 by Clark Brown.

From Mineola northeast via Jericho to East Norwich.

Jericho, opposite hotel; top of marble highway monument in triangle of roads 194.08
Jericho, Jericho pike at forks of road to Oyster Bay and Syosset, retaining wall east of road, 15 feet from driveway to residence; bronze tablet stamped “218 W. P.” 218.160
From East Norwich west via Roslyn to Bayside:

Roslyn, west side of south front of upper basin on public fountain; bronze tablet stamped "37 W. P."

Feet. 37.452


PALMYRA QUADRANGLE.

[Latitude 43°-43° 15'; longitude 77°-77° 15'.]

Primary leveling in 1898 by C. H. Semper and D. E. Baxter.

From East Palmyra north east along highway to Wallington.

Williamson, in front of station; top of rail

East Williamson, at road crossing; top of rail

Sodus, highway crossing, main track; top of rail

Sodus, southwest corner of Third Methodist Episcopal Church, on Ridge road, in water table; aluminum tablet stamped "457 Oswgo"

Wallington, on southwest corner of stone foundation of railroad water tank; chiseled square

420.2

417.0

428.8

458.255

405.90

From Galloway's bridge northeast along highways to East Palmyra.

East Palmyra, 2.3 miles southwest of, Galloway's highway bridge over Erie Canal, east wing of towpath abutment; chiseled square

East Palmyra, Presbyterian Church, in northwest corner of water table; bronze tablet stamped "471 Oswgo"

449.57

471.826

From Williamson south along highway to Marion (single-spur line).

Williamson, Union Academy; northwest corner of building; aluminum tablet stamped "454 Oswgo"

Marion, 500 feet north of four corners, Main Street front of the Marion Collegiate Institute; aluminum tablet stamped "462 Oswgo"

454.843

462.813

From Wallington south along the Northern Central Ry. to Newark.

Wallington, 0.9 mile south of, culvert 45, over Salmon Creek, northwest corner of masonry; chiseled square

Sodus Center, 0.3 mile south of, bridge 44, over Salmon Creek, on west wing of south abutment; chiseled square

Zurich, in front of station; top of rail

Fairville, brick schoolhouse, district 2; 475 feet west of Northern Central Ry., in masonry foundation, 7 feet south of front entrance; aluminum tablet stamped "456 Oswgo"

Fairville, 0.9 mile south of, railroad bridge 40, over Mud Creek, west end of south abutment; chiseled square

Fairville, 2.9 miles south of, railroad bridge 37, over Mud Creek, west end of south abutment; chiseled square

Newark station of New York Central & Hudson River R. R., Northern Central Ry. bridge over New York Central & Hudson River R. R. tracks, on top step, west end of south abutment; chiseled square

Newark, Charles Street bridge over Erie Canal, towpath side, on bottom step of east wing; chiseled square

Newark, southwest corner of Charles and Miller streets, Miller Street front of Baptist Church, 1 foot from northeast corner, in water table; aluminum tablet stamped "457 Oswgo"

405.90

411.03

441.5

456.802

414.21

416.35

434.25

447.81

457.570

1 See Bull. 514, pp. 92-93, for other elevations.

PENN YAN QUADRANGLE.

[Latitude 42° 30’–42° 45’; longitude 77°–77° 15’]

Primary leveling in 1899 by C. H. Semper and W. F. Hammond.

From Bellona south along the Northern Central Ry. to Himrod.

Benton, in northeast corner of Methodist Church; tablet stamped “1089 Oswego 1899” 1,089.814
Penn Yan, in front face of Penn Yan Academy; aluminum tablet stamped “767 Oswego 1899” 768.497
Milo Center, in east side of church on Main Street; tablet stamped “947 Oswego 1899” 947.809

From Himrod southwest along highway (single-spur line).

Himrod, 4.5 miles southwest of, small bridge 0.75 mile south of forks of road, in face of east wing of north abutment; tablet stamped “1111 Oswego, 1899” 1,112.490

From Potter Center south via Branchport to Catawba.

Potter Center, in east end of north abutment of iron bridge over Flint Creek; tablet stamped “893 Oswego 1899” 893.490
Friend, on west abutment at north end of bridge; chiseled square 987.88
Branchport, 1,200 feet east of, in south end of west abutment of highway bridge, road to Penn Yan; tablet stamped “720 Oswego 1899” 720.702
Gulicksville (near Pulteny post office), in west end north wall of iron bridge; aluminum tablet stamped “733 Oswego 1899” 733.615

PHELPS QUADRANGLE.

[Latitude 42° 45’–43°; longitude 77°–77° 15’]

Primary leveling in 1899 by C. H. Semper.

From Newark south along the Northern Central Ry. to Phelps Junction, thence southeast to East X.

Phelps Junction, 1.2 miles east of, on east end of stone abutment of aqueduct on south side of track, 15 feet from east end of wall; chisel mark 536.82
Phelps, southwest corner of schoolhouse, corner of Maine and Banta streets; aluminum tablet stamped “542 Oswego 1899” 543.142

From Phelps Junction west along the New York Central & Hudson River R. R. to Manchester.

Phelps Junction, 1.2 miles west of, on south side of railroad, top of stone abutment of creek bridge; chisel mark 565.49
Clifton Springs, 3.9 miles west of, Lehigh Valley overhead bridge over Auburn branch of New York Central & Hudson River R. R., north abutment; bronze tablet stamped “611 Oswego 1899” 612.031
Manchester, west abutment of Lehigh Valley R. R. bridge; top of bolt (railroad bench mark No. 339) 607.44
From Phelps Junction south along the Northern Central Ry. to Bellona.

Stanley, in northwest corner of grain elevator at railway station; aluminum tablet stamped "903 Oswgo 1899" 904.027

Bellona, in southeast corner of Memorial Presbyterian Church on Main Street; aluminum tablet stamped "731 Oswgo 1899" 732.207

From Stanley southwest along the Lehigh Valley R. R. to Rushville.

Rushville, in northeast corner of Methodist Episcopal Church, in water table; tablet stamped "870 Oswgo" 871.063

From Stanley west along the New York Central & Hudson River R. R. to Canandaigua.

Ennerdale (Beula post office), 30 feet south of station building, south side of railroad, on east margin of highway, in large boulder; bronze tablet stamped "851 Oswgo" 851.393

PHOENICIA QUADRANGLE.

[Latitude 42°-42° 15'; longitude 74° 15'-74° 30'.]

Primary leveling in 1900 by W. S. D. Moore and George Bailey.

From Boiceville north to Phoenicia.

Mount Pleasant, in front of station; top of rail 713.9

Phoenicia, in front of station; top of rail 796.2

Phoenicia, Ulster & Delaware R. R. bridge, south pier, top of east end; aluminum tablet stamped "804 Albany" 805.171

From Shandaken northwest along the Ulster & Delaware R. R. to Highmount.

Shandaken, steel bridge at forks of road, top of southwest wing wall; bronze tablet stamped "Albany 1071" 1,071.401

Big Indian, at station; passenger-room doorsill 1,213.85

Pine Hill, in front of station; top of rail 1,661.2

From Shandaken southwest to Big Indian, thence south to Slide Mountain post office.

Slide Mountain, rock at northwest corner of post office; bronze tablet stamped "Albany 1665" 1,665.070

From Shandaken north to Lexington.

West Kill, 1.3 miles south of top of Deep Notch, west side of road, on boulder; aluminum tablet stamped "Albany 1901" 1,901.096

West Kill, small steel bridge on south of road, east sill; chisel mark 1,464.51

From Phoenicia northeast to Lanesville.

Chichester, in front of station; top of rail 1,014.7

Chichester, 1.7 miles northeast of, north abutment of bridge, east end, top stone; chisel mark 1,151.45

From Hunter west to Lexington.

Jewett Center, east abutment of East Kill bridge, north end, top stone; aluminum tablet stamped “1405 Albany” 1,405.728
Lexington, north pier of Schoharie Creek bridge, west end, top stone; aluminum tablet stamped “1329 Albany” 1,329.760

From Shandaken along Ulster & Delaware R. R. to Pine Hill.

Shandaken, steel bridge at forks of road, top of southwest wing wall; bronze tablet stamped “1071 Albany” 1,071.401
Big Indian, passenger room at station; doorsill 1,213.85
Pine Hill, in front of station; top of rail 1,661.2

PISECO LAKE QUADRANGLE.

[Latitude 43° 15′-43° 30′; longitude 74° 30′-74° 45′.]

Primary leveling in 1898 by C. H. Semper and in 1902 by J. B. Maguire.

From Oregon north along road to Rudiston.

Oregon, near northwest corner of schoolhouse, in large boulder on east side of road; bronze tablet stamped “1511 Albany” 1,511.201
Oregon, 4.2 miles north of, 300 feet north of Pawley House, east side of road, in large table rock; aluminum tablet stamped “1674 Albany” 1,674.064
Rudiston, 1.7 miles south of, in east end of north abutment of highway bridge over outlet to Piseco Lake at mill; bronze tablet stamped “1666 Albany” 1,666.813

From mill south along road to Arietta.

Arietta, 4.7 miles north of, in east side of road at Gus Avery’s house, in large rock; bronze tablet stamped “1703 Albany” 1,703.252

From Morehouseville northeast along roads and trail to Metcalf Lake (single-spur line).

Metcalf Lake, on boulder on west side of trail; bronze tablet stamped “2380 Albany” 2,280.908

From Morehouseville east along road to Piseco.

Morehouseville, 2.7 miles east of, 50 feet west of church, south side of road, on rock; chiseled circle, with legend “B. M. G. of N. Y. State Land Survey” 1,832.82
Morehouseville, 7.8 miles east of, top of rock south side of road; chiseled circle 1,865.34
Piseco, Irondequoit Club house basement; aluminum tablet stamped “1703 A” 1,702.803

From Piseco northwest to Spruce Lake.

Piseco, 5 miles north of, 50 feet north of old road running northeast to old lumber camp, in large boulder 10 feet east of road; copper bolt stamped “1964 A” 1,964.198
PRECISE AND PRIMARY LEVELING.

PITCHER QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 75° 45'-76°.]

Primary leveling in 1900 by W. E. Green.

From Solon southeast along the Erie and New York Central railroads to Willett.

<table>
<thead>
<tr>
<th>Location</th>
<th>Elevation (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>East Freetown, at road crossing</td>
<td>1,323.6</td>
</tr>
<tr>
<td>Reuben's (milk station)</td>
<td>1,227.3</td>
</tr>
<tr>
<td>Whites Mills, in front of station</td>
<td>1,169.6</td>
</tr>
<tr>
<td>Dutch Hill, road crossing</td>
<td>1,131.49</td>
</tr>
</tbody>
</table>

From Cincinnatus northeast along highway to Otsego.

Cincinnatus, in northeast corner of brick building of J. W. Osgood, opposite hotel; bronze tablet stamped "1045 Albany" 1,044.756

North Pitcher, west side of highway, in foundation wall of post office; bronze tablet stamped "1166 Albany" 1,166.612

From Pitcher north to Lincklaen (single-spur line).

Lincklaen, at west corner of First Congregational Church, in front wall; bronze tablet stamped "1192 Albany" 1,192.683

From Truxton northeast along the Lehigh Valley R. R. to Cuyler.

Cuyler, 0.25 mile east of, 500 feet east of north and south road, 4 feet south of track, in boulder; copper bolt stamped "1256 S" 1,257.305

Cuyler, at road crossing near station; top of rail 1,127.1

PLATTSBURG QUADRANGLE (including Plattsburg Training Camp).

[Latitude 44° 30'-44° 45'; longitude 73° 15'-73° 30'.]

From Plattsburg south along highways to point near Ausable River, thence southwest to west border of quadrangle.

Primary leveling by Fred W. Crisp in 1916.

Plattsburg, at crossing of Delaware & Hudson R. R. track and Bridge Street, at south dock, in north wall of culvert, in large stone in third course from bottom and fifth from top, five holes in nearly a horizontal line; middle hole filled with lead and marked "U. S." (C. & G. S. b. m.) 109.065

Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916 109.009

Plattsburg, 1 mile south of, on Lake Shore road, in southwest corner of road crossing, 6 feet west of center of line of car tracks and 20 feet south of center of road to southwest, center of top of iron sewer manhole; painted square, painted "T. B. M. 164.85" 164.86

Plattsburg, 1.6 miles south of, on Lake Shore road, 300 feet south of bend in road, just south of barracks, 50 feet east of center line of tracks; copper nail and washer, painted "T. B. M. 159.2" 159.24

Plattsburg, 2.5 miles south of, on Lake Shore road, 50 feet west of end of spur line, 50 feet northwest of wooden bridge, 40 feet east of center of line of car tracks, top of south stone abutment; chiseled square, painted "T. B. M. 144.6" 144.64

Plattsburg, 2.7 miles south of, on Lake Shore road, 50 feet southeast of crossing of car line and Delaware & Hudson R. R., 100 feet south of road crossing, on north corner of concrete base of crossing signal; painted square, marked "U. S. T. B. M. 127.5" 127.49

104787°—Bull. 671—18—10
Plattsburg, 3.5 miles south of, on Lake Shore road, in northwest corner of crossroads, 400 feet east of Champlain Hotel railroad station, in southwest corner of concrete base of sign "Hotel Champlain"; painted square, marked "El. 164.7" feet. 164.73

Plattsburg, 4.2 miles south of, on Lake Shore road, opposite golf links, northeast corner of T road east, in stone culvert; chiseled square, marked "140.8" feet. 140.81

Plattsburg, 5.1 miles south of, on Lake Shore road, in east side of north end of iron bridge over Salmon River, in concrete guard; chiseled square, marked "113.3" feet. 113.34

Plattsburg, 6.2 miles south of, on Lake Shore road, west side of road, 400 feet south of top of hill, 300 feet south of red-brick house on same side of road, top of boulder; chiseled square, marked "157.7" feet. 157.77

Plattsburg, 6.8 miles south of, on Lake Shore road, 0.5 mile west of Valcour Landing, in northwest corner of crossroads, in top of concrete culvert, chiseled squares.

East end of culvert 127.76
West end of culvert 127.73

Plattsburg, 7.8 miles south of, on Lake Shore road, 1 mile south of Valcour Landing, at T road west, on concrete culvert; chiseled square, marked "121.1" feet. 121.15

Plattsburg, 8.8 miles south of, on Lake Shore road, 2 miles south of Valcour Landing, at Delaware & Hudson R. R. crossing, west side of track and north side of road, in end of tie; copper nail and washer, marked "126.9" feet. 126.96

Plattsburg, 9.8 miles south of, on Lake Shore road, at iron bridge over Ausable River, top of east side of span; rivet, painted "114.66" feet. 114.76

Plattsburg, 10.4 miles south of, on Lake Shore road, 0.7 mile southwest of bridge over Ausable River, at T road north, south, and west, in center of triangle, on boulder; chiseled square, marked "165.2" feet. 165.29

Plattsburg, 11 miles southwest of, on Keeseville earth road, northeast corner of wooden bridge over Dry Mill Creek; copper nail and washer, marked "U. S. G. S. 211.8" feet. 211.94

Plattsburg, 12.3 miles southwest of, on Keeseville earth road, in southeast corner of crossroads, on stump; copper nail and washer, marked "U. S. G. S. 313" feet. 313.23

Plattsburg, 13.2 miles southwest of, on Keeseville earth road, in root of large tree; copper nail and washer, marked "U. S. G. S. B. M. 360.6" feet. 360.70

PORTAGE QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 78°-78° 15'.]

Primary leveling in 1903 by George Seidel.

From Nunda west along Pennsylvania R. R. to Portage, thence north along Erie R. R. to Silver Lake Junction, thence northeast along Silver Lake Ry. to Perry, thence west over public road to South Warsaw, thence north along Buffalo, Rochester & Pittsburgh Ry. to Warsaw.

Portageville post office, west end of south abutment of Pennsylvania R. R. bridge across Genesee River; bronze tablet stamped "1131 Albany 1903" feet. 1,131.174

Castile, southwest corner of coping stone of water plug; bronze tablet stamped "1395 Albany 1903" feet. 1,394.847
PRECISE AND PRIMARY LEVELING.

147 Feet.

Castile, in front of station; top of rail................................................................ 1,395.0
Summit, highest point of Erie R. R. (Buffalo division); top of rail.................. 1,424.4
Silver Springs, road crossing at station; top of rail........................................ 1,402.0
Silver Lake Junction, about 500 feet west of, north side of Erie track,
in pier of Buffalo, Rochester & Pittsburgh Ry. bridge; bronze tablet stamped “1401 Albany 1903” (on single-spur line)............ 1,401.533
Chace station. road crossing; top of rail.......................................................... 1,370.0
Fairview, in front of station; top of rail......................................................... 1,364.0
Perry, road crossing; top of rail................................................................. 1,366.0
Perry, north end of west abutment of railroad bridge at station, in
top stone; bronze tablet stamped “1362 Albany 1903”.............................. 1,362.365
South Warsaw, north end of east abutment of bridge across Oatka Creek; bronze tablet stamped “1066 Albany 1903”.................... 1,065.823
Warsaw, road crossing at station; top of rail.............................................. 1,116.0

From South Warsaw west along public road to Wethersfield Springs, thence
south via Hardys to Pike, thence east to Portage.

Wethersfield Springs, culvert at west side of road; top of stone...................... 1,720.606
Hermitage, 250 feet north of road leading to Gainesville, 300 feet west of East Koy Creek, 200 feet north of Blodgett’s office, in
boulder; bronze tablet stamped “1658 Albany 1903”.................................. 1,658.056
Hardys, in front of station; top of rail.................................................... 1,686.1
Pike Five Corners; west end of south abutment of iron bridge....................... 1,595.769
Pike, iron bridge across Wiscoy Creek, about center of east abutment,
north side of driveway; bronze tablet stamped “1546 Albany 1903”............. 1,545.986

PORT JERVIS QUADRANGLE.

From Sparrowbush southeast and northeast along Erie R. R. to Otisville.

Sparrowbush, in front of station, northbound track; top of rail........................ 473.4
Port Jervis, Erie R. R. bridge over East Main Street, top of south
abutment, west side, first step below bridge seat; bronze tablet stamped “456 Albany 1900”....................................................... 457.077
Guymard, 600 feet north of station, railroad culvert, top of north
abutment, west side; bronze tablet stamped “780 Albany 1900”................. 780.914
Otisville, 500 feet west of station, small railroad bridge over private
road, west abutment, north side, top of bridge seat; bronze tablet stamped “861 Albany 1900”................................................. 862.219
Otisville, in front of station, westbound track; top of rail........................... 857.5

Primary leveling in 1904 by G. M. Dimmick.

From Pine Island west along highway to Unionville, thence north along New
York, Susquehanna & Western R. R. to Johnson.

Unionville, in foundation wall of Baptist Church, south end of east
face; bronze tablet stamped “516 Albany 1903 Adj”.............................. 516.367
Westtown, in foundation wall of storage building of T. G. Clark, south
end of west face; bronze tablet stamped “480 Albany 1903 Adj”.............. 480.026
Johnson, in foundation wall of the feed store of Simpson & Manning,
north end of east face; bronze tablet stamped “451 Albany 1903 Adj”.......... 450.994

From Port Jervis southeast along highway to Unionville.

Greenville, in foundation wall of Methodist Church, south end of east face; aluminum tablet stamped "1043 Albany 1903 Adj" 1,043.210

From Otis along highway west to Cuddebackville, thence northwest to Oakland Valley.

Cuddebackville, in foundation wall of Methodist Church, south end of east face; aluminum tablet stamped "522 Albany 1903 Adj" 522.085

Leveling in 1913 by K. F. Maxcy.

Near Port Jervis.

Port Jervis, west side of south abutment of Erie R. R. bridge over East Main Street, in top of first step below bridge seat; bronze tablet stamped "456 Albany 1900" 457.077

Port Jervis, in front of station, northbound track; top of east rail 439.3

Port Jervis, east abutment of Pike Street highway bridge over Delaware River, south end, in southeast corner of bridge seat; chiseled circle 444.50

PORT LEYDEN QUADRANGLE.

[Latitude 43° 30'-43° 45'; longitude 75° 15'-75° 30'.]

Precise leveling in 1900 by C. H. Semper.

From Leyden along Rome, Watertown & Ogdensburg R. R. to East Martinsburg.

Leyden, in front of station; top of rail 1,007.4

Port Leyden, Hotel Brunswick, opposite station, front face in brickwork; bronze tablet stamped "897 Albany 1900" 898.400

Lyons Falls, in front of station; top of rail 843.7

Glenfield, railroad station, front face of; bronze tablet stamped "776 Albany 1900" 777.618

East Martinsburg, in front of station; top rail 761.3

Primary leveling in 1902 by J. B. Maguire and in 1905 by R. P. Thompson.

From Glenfield east along highway to Houseville, thence south via Turin to Constableville, thence southeast to Boonville.

Houseville, 180 feet south of crossroads, in northeast corner of south abutment of highway bridge; aluminum tablet stamped "1304 Albany" 1,304.024

Turin, at northwest corner in west side of building owned by J. E. Jones, 50 feet southeast from crossroads; bronze tablet stamped "1264 Adj 1903" 1,264.144

Turin, 2.9 miles south of, 250 feet east of house of S. S. Freeman, 150 feet south of house of C. D. Davis, at east side of three roads intersection, 4 feet east of fence, in large rock; bronze tablet stamped "1277 Adj 1903" 1,276.537

Constableville, in southeast corner in water table of Catholic Church, bronze tablet stamped "1260 Adj 1903" 1,259.926

Constableville, 3.4 miles southeast of, 175 feet west of road, 0.2 mile northwest of three corners and 1.2 miles southwest of four corners, in foundation wall, east face, north corner of barn owned by Carpenter; bronze tablet stamped "1191 Adj 1903" 1,190.281

1 See Bull. 514, p. 24, for additional elevations.
From Port Leyden northeast along highway to Fowlersville, thence northwest to Brantingham, thence west to Glenfield.

Port Leyden, 3.1 miles northeast of, 30 feet north of center of road, 16 feet 8 inches southeast of pine tree, 17 feet 8 inches southwest of pine tree; iron post stamped “1207 Adj 1903” 1,206.965

Fowlersville, 50 feet north of northeast abutment of highway bridge over Moose River, 20 feet east of center of highway, in ledge of rock; aluminum tablet stamped “1182 Adj 1903” 1,181.594

Fowlersville, 3.6 miles northwest of, at Gridles Corners, 23 feet east of road to north, 26 feet north of east and west road, 32 feet from center of crossroads; iron post stamped “1226 Adj 1903” 1,225.959

Brantingham, in center of south face of foundation wall of T. Hess’s barn, 250 feet west of four corners; aluminum tablet stamped “1259 Adj 1903” 1,259.266

Greig, 0.2 mile south of three corners, 150 feet west of house of L. D. Hires, 20 feet north from center of road, in flat rock; bronze tablet stamped “826 Adj 1903” 825.925

Glenfield, in foundation wall of New York Central & Hudson River depot; bronze tablet stamped “776 Albany 1900” 777.618

POTS DAM QUADRANGLE.

[Latitude 44° 30’-44° 45’; longitude 74° 45’-75°.]

Primary leveling in 1906 by G. M. Dimmick.

From Norwood via Potsdam to South Colton.

Norwood, 2.6 miles south of, in brickwork of schoolhouse, north end of west face, 30 inches above ground; bronze tablet stamped “401 Adj 1903” 401.349

Potsdam, in third step of main entrance of Clarkson school building; aluminum tablet stamped “433 Adj 1903” 433.470

Potsdam, 3.7 miles south of, in foundation wall of the residence of G. B. Crandall, west end of north face; bronze tablet stamped “544 Adj 1903” 544.093

Potsdam, 6.5 miles south of, in south end of east abutment of highway bridge over Raquette River; bronze tablet stamped “559 Adj 1903” 558.958

Colton, in foundation wall of Catholic Church, west end of south face; aluminum tablet stamped “847 Adj 1903” 847.195

South Colton, in foundation wall of Methodist Church, center of south face; bronze tablet stamped “927 Adj 1903” 927.275

From South Colton via Clear Pond and Parishville to Converse.

South Colton, 3.2 miles northeast of, in large rock 15 feet south of center of highway, 400 feet east of farmhouse, owned by W. P. Lindsay; aluminum tablet stamped “1010 Adj 1903” 1,010.111

South Colton, 6.5 miles northeast of, 20 feet east of Perkins schoolhouse, district 16, in large rock; aluminum tablet stamped “1304 Adj 1903” 1,304.629

South Colton, 10.1 miles northeast of (Clear Pond), in foundation of stone building, north end of east face; bronze tablet stamped “1314 Adj 1903” 1,314.518
South Colton, 13.9 miles northeast of, in rock at primary triangulation station Whites Hill (South), 350 feet west of highway; bronze triangulation tablet stamped “1436 Adj 1903” 1,435.837

South Colton, 14.3 miles northeast of, in rock at primary triangulation station Whites Hill (North), 400 feet west of highway; bronze tablet stamped “1427 Adj 1903” 1,427.270

Parishville, in foundation wall of Baptist Church, west end of south face; aluminum tablet stamped “903 Adj 1903” 903.313

Parishville, 3.2 miles northeast of, in brickwork of house owned by Charles Cuttings, west end of north face; bronze tablet stamped “774 Adj 1903” 774.163

From Potsdam east to Converse, thence north to Buckton.

Potsdam, 2.4 miles east of, in brickwork of schoolhouse, center of south face; bronze tablet stamped “469 Adj 1903” 469.564

Potsdam, 5.7 miles east of, in top of south end of west abutment of highway bridge over St. Regis River; bronze tablet stamped “507 Adj 1903” 507.353

Potsdam, 8.2 miles east of, in stonework of stone house owned by H. Converse, west end of north face; aluminum tablet stamped “648 Adj 1903” 648.351

Potsdam, 11.3 miles northeast of, in brickwork of Beechertown schoolhouse, west end of south face, 10 bricks from foundation wall and 16 bricks from southwest corner; bronze tablet stamped “549 Adj 1903” 548.918

Buckton, in brickwork of Methodist Episcopal Church, center of west face, six bricks above foundation wall; bronze tablet stamped “405 Adj 1903” 405.190

POUGHKEEPSIE QUADRANGLE.1

[Latitude 41° 30′-41° 45′; longitude 73° 45′-74°.

Primary leveling in 1899 by Seth Van Loan.

From Poughkeepsie northeast to Pleasant Valley.

Poughkeepsie station, second step from east end of column on north side of arch bridge, keyed in fifth stone above ground; brass bolt stamped “+” 43.334

Poughkeepsie, city hall, in front face; aluminum tablet stamped “Albany 173” 172.991

Poughkeepsie, south end of first bridge east of station, over small creek; point on corner first step, east abutment 172.94

Poughkeepsie, northwest end of west abutment of small bridge east of Van Wagner crossing; point on top of stone 243.21

Poughkeepsie, 1 mile west of Pleasant Valley, at Landis place, third step from top, south end, west abutment, cattle pass and bridge; point in corner 232.57

Pleasant Valley, 300 feet east of station, in face of rock north side of track; bronze tablet stamped “Albany 211” 211.416

From Highland south along Erie R. R. to Milton.

Milton, south side of Townsend’s store, in window sill; bronze tablet stamped “9 Albany” 9.000

1 See Bull. 514, p. 45, for other elevations.
PRECIPE AND PRIMARY LEVELING.

From Highland north to College Point.

Highland, Poughkeepsie bridge, west abutment, southwest corner, top stone; chiseled mark: 225.31 Feet.
Highland, in front of West Shore R. R. station; top of west rail: 10.2
Highland, 2 miles north of, east end of south wall of open culvert; chiseled mark: 8.90

PULASKI QUADRANGLE.

[Latitude 43° 30'-43° 45'; longitude 76°-76° 15'.]

Primary leveling in 1900 by J. B. Maguire.

At Altmar.

Altmar (sand bank), southeast corner of foundation of Union Free School; aluminum tablet stamped "577 Albany": 576.806

RAQUETTE LAKE QUADRANGLE.

[Latitude 43° 45'-44°; longitude 74° 30'-74° 45'.]

Primary leveling in 1899 by W. W. Gilbert and C. B. Bailey.

From Brandreth station east along road via Brandreth and Raquette lakes to Long Lake.

Brandreth Lake, Brandreth camps, northwest corner of clearing, 10 feet east of road, 40 feet south of edge of woods, south face of boulder; aluminum tablet stamped "1915 Albany": 1,913.224
Brandreth Lake, foot of, 30 feet west of State road, 12 feet south of Brandreth Outlet, in northeast face of large boulder; aluminum tablet stamped "1884 Albany": 1,882.656
Raquette Lake, Antlers Hotel, 30 feet west of ice house, in bedrock; aluminum tablet stamped "1811 Albany": 1,809.926
Raquette, Forked Lake Carry, at southwest corner of Carry and State road, 5 feet from road, 15 feet from Carry, in face of large boulder; aluminum tablet stamped "1796 Albany": 1,796.420

From Blue Mountain Lake to upper dock of Marion River Carry.

Marion River Carry, opposite upper dock of, in the east face of ledge of rock on north side of road; aluminum tablet stamped "1793 Albany": 1,794.119

RATHBONE QUADRANGLE.

[Latitude 42°-42° 15'; longitude 77° 15'-77° 30'.]

Precise leveling in 1898 by E. L. McNair.

From Cameron southeast along Erie R. R. to Rathbone.

Adrian, 3.7 miles east of, in face of rock cliff on east side of Erie R. R. and highway, 400 feet northeast of highway bridge across Canisteo River, 25 feet from east rail; bronze tablet stamped "1080 D" (found in 1916 by Schlachter): 1,081.183
Cameron, in front of Erie station; top of north rail: 1,047.8

Cameron, 180 feet west of Erie station, in stone foundation of railroad water tank; bronze tablet stamped "1048 D" 1,048.915

Cameron Mills, in front of Erie station; top of north rail 1,033.3

Rathbone, general merchandise store of F. G. Martin (building owned by O. O. Whittemore), foundation stone at right of main entrance; bronze tablet stamped "1006 D" 1,007.041

Rathbone, in front of Erie station; top of south rail 1,008.6

Leveling in 1899 by C. H. Semper.

From Addison south along Buffalo & Susquehanna Ry. to Elkland.

Addison, 0.4 mile east of Erie station, 750 feet northeast of track, at right of main entrance to Union School building; aluminum tablet stamped "1021 D" 1,022.554

Addison, 1.3 miles south of, top of east abutment north side of bridge; chisel mark, marked "988 B. M." 987.55

Freeman, 1.2 miles south of, top of rock on east side of track, marked "1308 B. M." 1,308.50

Nichols, at road crossing; top of rail 1,406

Freeman, 4.2 miles south of, top of spike in trestle on east side of railroad, chisel mark "1390 B. M." (this trestle reported removed in 1912; elevation, 1,390.49 feet) 1,389.58

Freeman, 5.1 miles south of, at northeast end of trestle culvert; top of bolt in guard rail, chiseled, marked "1346 B. M." 1,345.43

Freeman, 6 miles south of, top of spike in culvert timber, 50 feet west of Nelson flag station, on east side of track; chiseled, marked "1295 B. M." 1,294.52

Elkland, on West Main Street, in front face of Pattison Bank; tablet stamped "1134 Harrisburg 1899" 1,134.432

Leveling in 1916 by K. E. Schlachter.

From Addison southwest along highways via Woodhull to west border of quadrangle.

Addison station, Erie R. R., top of south rail of westbound track 986.8

Addison, 2 miles south of, along State road to Woodhull, on top of small retaining wall of culvert on north side of road; chiseled circle painted "t. b. m. 1024.5" 1,024.40

Addison, 3.2 miles southwest of, along State road to Woodhull, in north side of culvert; chiseled circle painted "t. b. m. 1039.5" 1,039.42

Addison, 4.2 miles southwest of, along State road to Woodhull, in north side of culvert; chiseled circle painted "t. b. m. 1165.0" 1,164.94

Addison, 5.5 miles southwest of, along State road to Woodhull, in south side of concrete bridge, 900 feet east of "Halfway Bridge"; bronze tablet stamped "1129" 1,128.639

Woodhull, 4.5 miles east of, 300 feet east of corner of road south, on south side of culvert; chiseled circle painted "t. b. m. 1165.2" 1,165.01

Woodhull, 3.6 miles east of, on north side of concrete culvert; chiseled circle painted "t. b. m. 1274.0" 1,273.83

Woodhull, 3.2 miles east of, on south side of concrete bridge, at road north; bronze tablet stamped "1229" 1,228.42

Woodhull, 1.8 miles east of, in north end of west abutment of bridge over Tuscarora Creek; chiseled circle painted "t. b. m. 1263.1" 1,262.84
Woodhull, 1 mile east of, on north side of concrete culvert; chiseled circle painted “t. b. m. 1304.2” ........................................ 1,303.96

Woodhull, 0.3 mile east of post office, in north end of west abutment of bridge over South Branch of Tuscarora Creek; bronze tablet stamped “1314” .................................................. 1,314.047

Woodhull, on edge of concrete walk, east of Ren Colvins’s store; chiseled cross painted “t. b. m. 1321.1” .................................. 1,320.83

Woodhull, 1 mile west of, on south end of west abutment of bridge; chiseled circle painted “t. b. m. 1366.6” ........................................ 1,366.30

Brown school, in south side of west abutment of bridge near; chiseled circle painted “t. b. m. 1409.6” ........................................ 1,409.30

Brown school, 0.9 mile northwest of, 0.1 mile east of road to north, in south end of concrete culvert; bronze tablet stamped “1692” .......... 1,691.252

Brown school, 2.1 miles west of, in south end of culvert, 215 feet east of road to north; chiseled circle painted “t. b. m. 1675.2” ............ 1,674.81

**From Rathbone southwest along highways to Woodhull.**

Rathbone, general store of F. G. Martin, on foundation stone at right of main entrance; bronze tablet stamped “1006 D” (Bull. 281, p. 14) ............................................................... 1,007.041

Rathbone, 1.5 miles south of, at road fork, on flat rock in south margin of road; chiseled circle painted “b. m. 1391.5” ....................... 1,391.55

Rathbone, 2.5 miles southwest of, top of concrete step, southeast corner, in front of Charles Miller’s house; painted “1429” ............. 1,429.20

Merring School, 0.9 mile northeast of, 275 feet south of corner on north end of west side of bridge; painted bolt, eleventh bolt from bottom on outside row, painted “B. M. 1318.5” ............ 1,318.58

Merring School, 400 feet east of, on ledge, in south margin of road at corner; chiseled square painted “b. m. 1606.5” ..................... 1,606.54

Woodhull, 2 miles northeast of, on east side of north abutment of bridge; painted circle painted “B. M. 1440.2” .......................... 1,440.20

Woodhull, 1.1 miles northeast of, at road fork east, in root, north side of 12-inch maple tree, 25 feet southeast of fork; copper nail and washer painted “B. M. 1595.1” ............................. 1,595.14

**From Jasper southeast along highways to Woodhull.**

Jasper, 0.9 mile east of, 80 feet east of five corners, on southeast corner of bridge; chiseled square painted “t. b. m. 1542.6” ............ 1,542.09

Jasper, 2.5 miles east of, near corner of Townsley School, in south end of east abutment of bridge over Tuscarora Creek; chiseled square painted “t. b. m. 1461.4” ...................................... 1,460.91

Woodhull, 2 miles west of, in south end of east abutment of bridge; chiseled square painted “t. b. m. 1394.2” .............................. 1,393.69

Woodhull, 1 mile west of, on southeast corner of concrete bridge; chiseled square painted “t. b. m. 1374.8” .............................. 1,374.28

Woodhull, 0.6 mile west of, on culvert, north side of road; painted circle ................................................................. 1,335.06

**From point 2.6 miles north of Jasper along highways northeast and east to Cameron, thence northwest to permanent bench mark 3.7 miles east of Adrian, erroneously reported destroyed in Bulletin 514.**

North Jasper, 1.5 miles west of, 0.25 mile east of four corners, 100 feet east of mail box of Albert Baker, in north end of iron culvert; chiseled cross painted “t. b. m. 2101.4” ............................. 2,100.92
North Jasper, 0.4 mile west of, 20 feet west of house of L. S. Talbot, 
105 feet north of road, in boulder at well; bronze tablet stamped 
"1712"  ........................................ 1,711.973

North Jasper, 1 mile north of, on iron girder at northwest corner of 
bridge; chiseled square painted "t. b. m. 1681.4"  ............. 1,680.82

Brookland school, in west end of stone culvert at corner; chiseled 
circle painted "t. b. m. 1772.9"  .................................. 1,772.38

Brookland school, 0.8 mile east of, 300 feet east of house of John 
Brown, in ledge, north margin of road, 2 feet above ground; bronze 
tablet stamped "1793"  .......................................... 1,791.960

Brookland school, 0.8 mile east of, 300 feet east of house of John 
Brown, in ledge, north margin of road, 2 feet above ground; bronze 
tablet stamped "1793"  .......................................... 1,791.960

Cameron, 1.7 miles southwest of, at west end of north abutment of 
bridge; top of large center bolt painted "1263.2"  ............... 1,262.60

Cameron, 0.5 mile west of, in north end of center pier of highway 
bridge over Canisteo River; chiseled circle painted "t. b. m. 
1050.4"  .................................................. 1,049.79

Cameron, 2 miles west of, 600 feet west of road crossing, on base of 
semaphore 316.1, 2 feet above ditch; top of southeast bolt.  .... 1,058.64

Cameron, 3.1 miles west of, on base of semaphore pole 317.1, 2 feet 
above ditch; top of southeast bolt.  ................................ 1,066.67

Cameron, 4 miles west of, in base of semaphore pole 318.1, 2 feet 
above ditch; top of southeast bolt.  ................................ 1,070.89

From Cameron along highways north and east to point near Campbell.

Cameron, 850 feet west of Erie R. R. station, in south side of concrete 
culvert; bronze tablet stamped "1050"  ........................ 1,049.194

Cameron, 1 mile north of, 400 feet north of large barn, in culvert, 
east side of road; chiseled circle painted "t. b. m. 1408.9" .... 1,408.27

Cameron, 2.5 miles north of, in west end of concrete drain pipe at 
road corner to east; chiseled square painted "t. b. m. 1763.5" ... 1,762.79

Cameron Hill school, 0.8 mile west of, in southeast quadrant of four 
corners on rock, 0.2 feet above ground; chiseled circle painted 
"T. B. M. 1764.3"  ........................................... 1,763.65

Cameron Hill school, at four corners, in root, west side of large 
maple tree, in southwest quadrant; copper nail and washer painted 
"t. b. m. 1726.4"  ............................................. 1,725.72

Cameron Hill Church, in northwest corner of top of concrete steps 
at front entrance; bronze tablet stamped "1754"  .......... 1,753.320

Cameron Hill school, 0.5 mile east of, in ledge in south end of tri-
gle at road corner; chiseled circle painted "t. b. m. 1629.0" .... 1,628.31

Risingville, 1.4 miles west of, on rock in south margin of road, 20 
feet east of bridge; chiseled circle painted "t. b. m. 1542.9" .... 1,542.15

Risingville, 0.3 mile west of, in rock in southeast quadrant of road 
south; chiseled circle painted "t. b. m. 1553.5"  ............... 1,552.74

Risingville, 420 feet west of bridge, in south end of concrete culvert, 
40 feet west of road fork; bronze tablet stamped "1331" ....... 1,330.080

Risingville, 1.2 miles east of, on rock on south margin of road, 200 
feet west of house on north side of road; chiseled circle painted 
"t. b. m. 1299.7"  ........................................... 1,298.88

Thurston, at four corners, in south end of east abutment of bridge 
over Spring Brook; chiseled circle painted "t. b. m. 1265.5" .... 1,264.66

Thurston, in northwest corner of carriage step of Christian Church; 
bronze tablet stamped "1244"  ................................ 1,243.380
PRECISE AND PRIMARY LEVELING.

REDHOUSE QUADRANGLE.

[Latitude 42°-42° 15' ; longitude 78° 45'-79°.]

Precise leveling in 1898 by E. L. McNair.

From Little Valley southeast along Erie R. R. to Salamanca.

Little Valley, Cattaraugus County courthouse; foundation wall at southwest corner; aluminum tablet stamped "1593 D" 1,594.244
Little Valley, in front of Erie station; top of rail 1,566.5
Elkdale, in front of station; top of rail 1,464.3
Salamanca, 3.25 miles west of, at southwest corner of iron-girder bridge, bridge seat; bronze tablet stamped "1413 D" 1,413.771

Precise leveling in 1899 by E. L. McNair and in 1902 by D. H. Baldwin.

From Shongo southwest along Pennsylvania R. R. to New York-Pennsylvania State line.

Shongo, in front of station; top of north rail 1,372.0
Redhouse, in front of station, main track; top of south rail 1,345.9
Redhouse, 0.56 mile southwest of, southeast corner of bridge 126, on foundation coping stone; aluminum tablet stamped "1340 Dunkirk 1899" 1,340.904
Cold Spring, in front of signboard; top of south rail 1,327.5
Quaker Bridge, in front of station; top of rail 1,329.4
Quaker Bridge, 1.03 miles southwest of, northeast corner of steel-truss bridge, on foundation coping stone; aluminum tablet stamped "1316 Dunkirk 1899" 1,317.298
Wolf Run, in front of station; top of south rail 1,328.9
Wolf Run, 0.10 mile west of, southeast corner of bridge 121, on parapet of coping stone; chiseled square 1,327.018
Onoville, in front of station; top of west rail 1,306.6
State line, opposite boundary post; top of east rail 1,295.2

Primary leveling in 1903 by George Seidel.

From Kennedy east along railroad to Randolph (single-spur line).

Randolph, west end of north abutment of bridge west of station, top stone; bronze tablet stamped "1298 Dunkirk" 1,298.010

RED MILLS QUADRANGLE.1

[Latitude 44° 45'-45° ; longitude 75° 15'-75° 30'.]

Primary leveling in 1904 by G. M. Dimmick.

From Red Mills east along highway to Chipman.

Red Mills, 6.93 miles east of, in foundation wall of residence of Alvia Martin, west end of south face; bronze tablet stamped "348 Albany 1908 Adj." 348.175

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1 See Bull. 514, p. 80, for other elevations.

REMSEN QUADRANGLE.

[Latitude 43° 15′–43° 30′; longitude 75°–75° 15′.]

Precise leveling in 1900 by C. H. Semper.

From Remsen along the Rome, Watertown & Ogdensburg R. R. to Limerick.

Remsen, between lower milldam and Rome, Watertown & Ogdens­burg R. R., north end of retaining wall, in end of coping, face near corner; bronze tablet stamped “1172”______________________ 1,171.464
East Steuben, in front of station; top of rail________________ 1,247.7
Steuben, at road crossing near station; top of rail___________ 1,273.4
Alder Creek, milk station, 100 feet south of railroad station, west side of railroad, in south end (east face) of wall; bronze tablet stamped “1253 Albany 1900”__________________________ 1,254.385

Primary leveling in 1897 by E. L. McNair, Clark Brown, and L. T. Haney.

From South Trenton via Prospect, Hinckley, and Northwood to point near Wil­murt.

Trenton, Rome, Watertown & Ogdensburg R. R. station, south door of waiting room, 0.42 foot west of door jamb; water table________ 840.65
Prospect station, Rome, Watertown & Ogdensburg R. R. crossing over highway, just north of, on lower step of south abutment, east side; chiseled square_____________________________ 984.93
Prospect post office, 0.22 mile north of, in field opposite creamery and east of road, in boulder 3 by 7 by 12 feet; copper bolt stamped “1142 R”_____________________________ 1,141.105
Hinckley, 0.25 mile west of Empire Hotel, stone culvert north side of road, on east end of wall; chiseled square_____________________________ 1,181.05
Hinckley, 2.3 miles northeast of, and about 1.1 miles west of Oneida-Herkimer county line, in Remsen Township, 55 feet from road center, in pasture, west side of road, in boulder; copper bolt stamped “1262 R”________________________ 1,261.647
Northwood, on stone abutment at northwest corner of iron bridge over stream at sawmill; chiseled square_____________________________ 1,207.49
Northwood, 2.8 miles east of, 3,450 feet west of abandoned house south of road, 7 feet north of center of road, on large boulder; copper bolt stamped “1258 R”________________________ 1,257.696

From Ohio south to Poland.

Ohio, 2.6 miles southwest of, on stone foundation at northeast corner of iron bridge over Black Creek; chiseled square________________________ 1,238.15
Cold Brook, 3.4 miles north of, 3.6 miles south of Ohio, 480 feet south of road from southwest and 1 mile south of crossing of Black Creek, in Prussian Township, on west side of road, 3 feet from wire fence; copper bolt stamped “1265 R”_________________________ 1,264.710

From Prospect north along New York Central & Hudson River R. R. to Forest­port.

Prospect, 1,000 feet northeast of station, on Hinckley Branch Ry., on parapet north side of culvert, on northwest corner of coping; chisel mark “O. B. M. 55”_________________________ 1,146.83
Remsen, north end of retaining wall between lower milldam and Rome, Watertown & Ogdensburg R. R., in end of coping near face corner; bronze tablet stamped "1172" __________________ 1,171.46

Honedaga station, 0.25 mile north of, 40 feet west of track, opposite cattle guard, in boulder 6 by 15 feet; copper bolt stamped "U. S. G. S. 1209 R" ______________________________ 1,208.35

Forestport station, 2 miles south of, north end of Black River (reservoir) bridge, on west end of coping of parapet; chiseled circle __________ 1,178.95

Forestport, 0.3 mile north of station, at Meekville, north end of railroad bridge over Little Woodhull Creek, west end of parapet coping; copper bolt stamped "U. S. G. S. R 1199 Ft. B. M." __________ 1,199.05

From Forestport along road east to Enos, thence northeast to Atwell.

Enos, 0.7 mile southeast of, Oneida-Herkimer county line, at forks of roads to northeast and to Maple Lake; top of stone __________ 1,387.80

Maple Lake, outlet of. 1 mile southeast of Enos, west abutment of bridge; copper bolt stamped "1318 U" __________ 1,317.97

Reeds Mill, east side of south abutment of bridge over Black River; copper bolt stamped "1598 R" __________ 1,597.26

REXVILLE QUADRANGLE.

[Latitude 42°-42° 15'; longitude 77° 30'-77° 45'.]

Leveling in 1916 by K. E. Schlachtcr.

Along highways near east border of quadrangle.

Jasper, 5 miles south of, at road corners, in root, west side of maple on west margin of road; copper nail and washer painted "t. b. m. 1927.3" __________ 1,926.96

Jasper, 3.8 miles south of, in east end of culvert, 50 feet south of Homer Foster's house; bronze tablet stamped "1826" __________ 1,825.50

Jasper, 1.7 miles south of, on west side of bridge over Middle Branch of Tuscarora Creek; chiseled circle painted "t. b. m. 1708.1" __________ 1,707.69

Jasper, in east end of south abutment of bridge over Tuscarora Creek; bronze tablet stamped "1578" __________ 1,577.61

Jasper, 1 mile north of, at road forks, in east end of culvert; chiseled square painted "t. b. m. 1819.8" __________ 1,819.29

Jasper, 2.1 miles north of, at road corner east, in root on west side of 15-inch maple, 20 feet west of road; copper nail painted "t. b. m. 1902.5" __________ 1,902.02

Jasper, 2.6 miles north of, on top of burnt stump in northwest quadrant of road corner west; copper nail and washer painted "t. b. m. 2054.7" __________ 2,054.16

RHINEBECK QUADRANGLE.1

[Latitude 41° 45'-42°; longitude 73° 45'-74°.]

Primary leveling in 1899-1900 by Seth Van Loan and in 1900 by W. S. D. Moore.

From Pleasant Valley northeast to Clinton Corners, thence south to Washington Hollow.

Salt Point, 1 mile east of, south end of west abutment of Leggetts Bridge; corner second stone from top ____________________________ 267.31

1 See Bull. 514, p. 45, for other elevations.
Clinton Corners, north end of west abutment of bridge over Salt Point Creek, in coping stone; bronze tablet stamped "Albany 244"............ 158
Hibernia, south abutment, near end of truss bridge over creek; point on east side................................................................. 158

Feet. 244.735  251.43

From College Point north along West Shore R. R. to Kingston.

College Point, 180 feet north of "Watchman's Box," on east end of north wall of culvert; chisel mark.................................................. 159
West Park, West Shore R. R. station, in north wall at northwest corner; bronze tablet stamped "113 Albany"............................................. 159
Esopus, at crossing; top of rail..................................................... 160
Esopus, 0.7 mile north of, south abutment, on east end of bridge; chis­eled mark................................................................................. 160
Ulster Park, 300 feet south of station, at crossing; top of rail........... 160
Port Ewen, 500 feet south of station, at crossing; top of east rail...... 160

RICHFIELD SPRINGS QUADRANGLE.

[Latitude 42° 45'-43°; longitude 74° 45'-75°.]

Primary leveling in 1899 by A. W. Gill and W. W. Gilbert.

From Mohawk southeast to Paines Hollow, thence east to Newville, thence via Indian Castle to Little Falls.

Mohawk, 3.9 miles southeast of, Gilbert Day's stable, southwest corner of foundation; aluminum tablet stamped "719 Albany".............. 161
Paines Hollow, 0.1 mile west of post office, southwest corner of Dr. Henry Green's stable; aluminum tablet stamped "1133 Albany"........ 161
Newville, southeast corner of stone mill belonging to Messrs. Lewis & Spoor; aluminum tablet stamped "552 A"................................. 161

From Paines Hollow south through Jordanville to Richfield Springs.

Richfield Springs, 1 mile northeast of, highway bridge at three cor­ners, at center of east parapet wall, on coping stone; chisel mark........ 161
Richfield Springs, northwest corner of Gould Avenue and Church Street, southeast corner of Universalist Church; aluminum tablet stamped "1327 Albany"................................................. 161

From Richfield Springs east via Warren to East Springfield.

Springfield Center, foundation of Baptist Church; aluminum tablet stamped "1257 Albany"......................................................... 162
East Springfield, west side of stone building used as post office; aluminum tablet stamped "1324 Albany"........................................... 162

From Newville via Starkville to East Springfield.

Starkville, Abram De Garno's mill, in wall 1 foot east of northwest corner of building, 4 feet above ground; aluminum tablet stamped "692 Albany"......................................................... 162
PRECISE AND PRIMARY LEVELING.

RICHMONDVILLE QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 74° 30'-74° 45'.]

Precise leveling in 1898 by E. L. McNair.

From Worcester northeast along Delaware & Hudson R. R. to Cobleskill.

<table>
<thead>
<tr>
<th>Location</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Worcester, in front of Delaware &amp; Hudson station; top of north rail</td>
<td>1,306.4</td>
</tr>
<tr>
<td>East Worcester, 0.75 mile west of, north end of center pier of railroad bridge or large culvert; aluminum tablet in capstone stamped &quot;1406 A&quot;</td>
<td>1,405.207</td>
</tr>
<tr>
<td>East Worcester, in front of Delaware &amp; Hudson station; top of north rail</td>
<td>1,434.5</td>
</tr>
<tr>
<td>Richmondville, 0.6 mile west of, northeast corner of Delaware &amp; Hudson R. R. bridge No. 31, in coping stone of east abutment wall; bronze tablet stamped &quot;1224 A&quot;</td>
<td>1,223.062</td>
</tr>
<tr>
<td>Richmondville, in front of Delaware &amp; Hudson station; top of south rail</td>
<td>1,185.9</td>
</tr>
<tr>
<td>Cobleskill, 1 mile west of, south end of culvert at west side of road crossing; chiseled square</td>
<td>949.23</td>
</tr>
</tbody>
</table>

Primary leveling in 1901 by William Kelley and in 1902 by W. E. Green.

From North Kortright northwest to Fergusonville, thence northeast to Charlotteville, thence north to East Worcester.

<table>
<thead>
<tr>
<th>Location</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Worcester, 6 feet north of southeast corner of Olmstead &amp; Sturges's store, east side of foundation wall; aluminum tablet stamped &quot;1373 Albany 1901&quot;</td>
<td>1,374.016</td>
</tr>
<tr>
<td>East Worcester, in front of station; top of east rail</td>
<td>1,427.63</td>
</tr>
<tr>
<td>East Worcester, 0.75 mile west of station (precise line), north end of culvert; tablet stamped &quot;1406 Albany 1901&quot;</td>
<td>1,405.207</td>
</tr>
</tbody>
</table>

From Charlotteville northeast to Summit, thence south to Stewart post office (single-spur line).

<table>
<thead>
<tr>
<th>Location</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summit, south side wall of Jump &amp; Havens's drug store; bronze tablet stamped &quot;2108 Albany 1902&quot;</td>
<td>2,108.96</td>
</tr>
<tr>
<td>Stewart, in southeast corner of post office (Martin Vroman's house); bronze tablet stamped &quot;1364 Albany 1902&quot;</td>
<td>1,364.230</td>
</tr>
</tbody>
</table>

From Cobleskill northwest along the Cherry Valley branch of Delaware & Hudson R. R. via Hyndsville and Seward to Sharon Springs.

<table>
<thead>
<tr>
<th>Location</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hyndsville, in front of passenger room; top of high rail</td>
<td>1,115.6</td>
</tr>
<tr>
<td>Seward, in front of passenger-room door; top of rail</td>
<td>1,181.5</td>
</tr>
<tr>
<td>Seward, in front of wall of general store; bronze tablet stamped &quot;1186 Albany 1902&quot;</td>
<td>1,186.486</td>
</tr>
<tr>
<td>Hanson's crossing; top of rail</td>
<td>1,217.0</td>
</tr>
</tbody>
</table>

From Seward west along public road to South Valley (single-spur line).

<table>
<thead>
<tr>
<th>Location</th>
<th>Height (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>South Valley, Christian Church; bronze tablet stamped &quot;1563 Albany 1902&quot;</td>
<td>1,563.183</td>
</tr>
</tbody>
</table>

RIDGEWAY QUADRANGLE.

[Latitude 43° 15'-43° 30'; longitude 78° 15'-78° 30'.]

Primary leveling in 1896 by E. L. McNair.

On circuits tied to canal bench marks.

Jeddle, 153 feet from doorway of Adventist Church, 50 feet from doorway of schoolhouse, in road corners, in top of boulder 3.3 feet high; copper bolt stamped "421"...

Oak Orchard, 6 feet from southwest corner of iron bridge across Oak Orchard Creek, 1.000 feet east of post office, in abutment; copper bolt stamped "370"...

Eagle Harbor, Gaines Town, Erie Canal bridge 131, in lower step of east wing, towpath side; copper bolt stamped "516" (Barge canal 516.899)...

RIVERHEAD QUADRANGLE.

[Latitude 40° 45'-41°; longitude 72° 30'-72° 45'.]

Primary leveling in 1903 by George Seidel.

From Riverhead southwest to Eastport.

Riverhead, northeast corner of courthouse, in brick foundation; aluminum tablet stamped "28 Willets Pt."...

Eastport, 225 feet north of railroad station, south side of road to Speonk; iron post stamped "29 Willets Pt."...

ROCHESTER QUADRANGLE.

[Latitude 43°-43° 15'; longitude 77° 30'-77° 45'.]

Precise leveling in 1901-2 by D. H. Baldwin.

From Charlotte south along New York Central & Hudson River R. R. to Rochester.

Charlotte, 0.22 mile northeast of New York Central station, old lighthouse, upper side of water table at south-southeast angle, east of the south window; chiseled cross (U. S. L. S. B. M.)...

Barnard, crossing; top of northwest rail...

Little Ridge crossing; top of west rail...

Rochester, Ridgeway Avenue, or Big road crossing; top of west rail...

Rochester, highway bridge 87, over barge canal, south abutment, east wing; chiseled square on lowest step...

Rochester (State engineer's bench mark 457), Rowe Street bridge 86, near towpath, on foundation under east tower; chiseled square...

Rochester, Rowe Street bridge (Buffalo, Rochester & Pittsburgh Ry.), southwest corner, on parapet stone; chiseled square...

Rochester, Buffalo, Rochester & Pittsburgh Ry. bridge over Niagara Falls R. R., southwest corner, on parapet wall; chiseled square...

Rochester, Buffalo, Rochester & Pittsburgh Ry. bridge over New York Central R. R.; top of west rail...

Rochester, grade crossing of Buffalo, Rochester & Pittsburgh main line over Pennsylvania (branch) R. R.; top of rail...

See Bull. 514, pp. 94-95, for other elevations.
South along Pennsylvania R. R. to Scottsville.

Rochester, 0.22 mile south of, Buffalo, Rochester & Pittsburgh Ry. crossing, west of track, near north end of stone culvert; chiseled square ............................................................... 538.32

Genesee Junction, West Shore R. R. bridge, northeast corner, near northwest corner of parapet stone; chiseled square ............................................................... 524.75

Genesee Junction, in front of station; top of east rail .................................................. 526.0

Genesee Junction, 1.49 miles south of, southeast corner of small bridge over old canal, coping of foundation wall; chiseled square .................................................. 525.90

Whites, road crossing, near flag station; top of east rail .................................................. 527.1

Whites, 0.72 mile south of, old lock, west side wall, south quoin between anchors; chiseled square ............................................................... 530.93

Severance, in front of flag station; top of east rail .................................................. 532.6

Severance, 640 feet south of, northwest corner of bridge over canal, on coping stone; chiseled square ............................................................... 531.38

Severance, 2.23 miles south of, northeast corner of highway bridge over canal, on coping stone; chiseled square ............................................................... 534.58

Scottsville, 800 feet north of station, south side of creek overflow dam, on top of stone pier; bronze tablet stamped “537 Rochester 1902” .................................................. 535.447

Scottsville, in front of station, main track; top of west rail .................................................. 538.4

Primary leveling in 1898 by C. H. Semper.

From Charlotte east along the Rome, Watertown & Ogdensburg R. R. to Forestlawn.

Charlotte, upper side of water table of old lighthouse, at southeast angle east of the south window; chiseled circle (U. S. Engineer Corps bench mark No. 1) .................................................. 283.168

Charlotte, Genesee River, railroad swing bridge over, on southwest corner of west abutment of bridge, on top of parapet wall; chiseled square .................................................. 257.16

Windsor, station of Rome, Watertown & Ogdensburg R. R., cement foundation of first post of building east of station; chiseled square .................................................. 278.46

Irondequoit, in front of Lake Shore Hotel; top of rail .................................................. 270.2

Irondequoit Bay, Rome, Watertown & Ogdensburg R. R. bridge over outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square .................................................. 252.23

Forestlawn, 0.8 mile west of, railroad bridge over Webster road, on west abutment, north side of top step; chiseled square .................................................. 266.40

ROSENDALE QUADRANGLE.

[Latitude 41° 45'-42° ; longitude 74°-74° 15'.]

Primary leveling in 1900 by W. S. D. Moore and in 1901 by W. E. Greene.

From Kingston west along the Ulster & Delaware R. R. to Brodhead.

Kingston, city hall, in center of face of wall of front portico; aluminum tablet stamped “223 Albany” .................................................. 223.760

Bridge 6, Ulster & Delaware R. R., east abutment, north end, on top stone; chisel mark .................................................. 155.94

Kingston Creek bridge, on north end of west abutment; chisel mark .................................................. 165.01

104787° — Bull. 671—18—11
Stony Hollow, 0.25 mile north of, bridge 12, east abutment, south end, top stone; chisel mark 459.34
West Hurley, 0.5 mile east of railroad station, 100 feet northwest of road crossing on south side of highway; bronze tablet stamped “546 Albany” 546.312
West Hurley, in front of station; top of rail 531
Olive Branch, in front of station; top of rail 515.2
Olive Branch, 400 feet west of station, bridge 17, west abutment, north end, top stone; chisel mark 512.22
Olive Branch, 2.5 miles west of, bridge 20, east abutment, south end, top stone; chisel mark 506.37
Brodhead bridge, east abutment, north end; chisel mark 502.21
Brodhead, at Ulster & Delaware R. R. crossing; top of rail 503.4

From Shokan southeast along public road to Alligerville.

Krumville, 1.5 miles southeast of, at L. D. Christiana’s house, in northeast corner of foundation wall; bronze tablet stamped “827 Albany 1902” 827.287

From Alligerville northeast via Rosendale to Rifton.

Alligerville, iron bridge over Rondout Creek, east end of south abutment; bronze tablet stamped “220 Albany 1901” 220.405
Rosendale, road crossing at station; top of rail 182.5
Rifton, 150 feet from post office, east side of road, rock ledge; bronze tablet stamped “170 Albany 1901” 169.887

From Rosendale south along Wallkill Valley R. R. to Newpaltz.

Springtown, farm crossing at station; top of rail 188.4
Newpaltz, 150 feet north of station, at road crossing; top of rail 207.5

From Rosendale along Wallkill Valley R. R. to Kingston.

Binnewater, road crossing; top of rail 206.1
Whiteport, in front of station; top of rail 180.4

RUSSELL QUADRANGLE.

[Latitude 44° 15’-44° 30’; longitude 75°-75° 15’.] Leveling in 1914 by K. E. Schlachter.

From point near Hermon southeast along highways to Dranes Corners, thence south to Fine.

Hermon, 0.5 mile west of, at first crossroad out of town, 25 feet south of intersection, 12 feet east of road; bronze tablet stamped “497” 496.678
Hermon, 1 mile southeast of, along State road to Russell, on top of Fordham Hill, in south side of concrete culvert; chiseled square 658.12
Hermon, 1.9 miles southeast of, along State road to Russell, in ledge on south side of road; chiseled circle 741.41
Mott school, 0.8 mile east of, on Gibbons Hill, 200 feet east of house, in north side of concrete culvert; bronze tablet stamped “708” 707.713
Russell, 1.7 miles northwest of, along State road to Hermon, 350 feet east of water trough, in south side of concrete culvert; chiseled square______________________________ 617.01
Russell, 0.9 mile west of, along State road to Hermon, in north side of concrete culvert; chiseled square______________________________ 571.50
Russell, in bridge over Grass River, in east side of center pier; bronze tablet stamped "580"______________________________ 579.804
Palmerville (Gate’s mill), 350 feet north of bridge over Plum Creek, in east side of concrete culvert; top of pebble in chiseled circle______________________ 592.63
Palmerville (Gate’s mill), 1.4 miles south of, 500 feet south of road fork, in west side of concrete culvert; chiseled square______________________ 629.82
South Russell, 2.7 miles north of, at road forks, 6 feet inside of fence, in ledge east of road; bronze tablet stamped “645”____________ 644.354
South Russell, 0.9 mile north of, 280 feet south of corner, in east side of concrete culvert; chiseled square______________________ 697.02
South Russell post office, 200 feet south of, at road corner, in southeast corner of boulder; bronze tablet stamped “Prim. Trav. Sta. 715”______________________________ 714.674
South Russell, 0.9 mile south of, at Silverhill Road corner (Offutt’s Corner), on west side of road, 7 feet south of concrete culvert, on rock; chiseled circle______________________ 718.20
Offutt’s Corner, 0.8 mile south of, 350 feet south of road, on boulder on east margin of road; chiseled circle______________________ 786.63
School 5 (Russell), 1.5 miles north of, on boulder in west margin of road; chiseled square______________________ 920.71
School 5 (Russell), 1 mile north of, at corner, on rock; painted circle______________________ 903.93
School 5 (Russell), 600 feet south of, 90 feet south of house, in rock in west margin of road; chiseled square______________________ 1,003.84
Dranes Corner, 0.4 mile north of, in boulder in west margin of road; bronze tablet stamped “1014”______________________________ 1,013.081
Dranes Corner, in southwest abutment of bridge over Plum Creek; chiseled square______________________ 1,011.77
Dranes Corner, 1.6 miles south of, 100 feet north of divide, in boulder in east margin of road; bronze tablet stamped “1104”______________________________ 1,102.705
Square House Corner, 1.1 miles north of, at road fork, on boulder in fork; chiseled circle______________________________ 1,027.88
Square House Corner, 1 mile east of Fine, on boulder opposite T road; painted circle______________________________ 1,014.98

From point 3 miles south of Russell southwest along highway to Edwards.

Hughesville school (Russell 4), 0.5 mile west of, on boulder in north margin of road; chiseled circle______________________________ 696.12
Belleville Corner, 0.9 mile east of, in ledge in south margin of road; chiseled square______________________________ 687.60
Belleville Corner, 0.6 mile east of, at road south, 150 feet south of intersection, in west side of concrete culvert; bronze tablet stamped “687”______________________________ 686.220
Edwards, 3 miles northeast of, 700 feet south of road west, on ledge in west margin of road; chiseled circle______________________________ 649.44
Edwards, 1 mile northeast of, on boulder in east margin of road; chiseled circle______________________________ 653.24

From Hermon along highways east to point near West Pierpont, thence south to Degrasse, thence southwest to point near Russell school.

Hermon, 1 mile east of, 400 feet east of house, on boulder in north margin of road; chiseled circle. 632.38

Brownsville, Wood Bridge (2.4 miles east of Hermon), in south side of center pier of bridge over Grass River; bronze tablet stamped "532". 531.709

Gibbs school, 0.2 mile west of, 250 feet east of cheese factory, in boulder in north margin of road; chiseled circle. 674.37

Moore's Corner, 1.1 miles west of, 350 feet east of crossroad, in boulder in south margin of road; chiseled circle. 741.27

Moore's Corner, 0.4 mile west of, in boulder in south margin of road; bronze tablet stamped "Prim. Trav. Sta. No. 5, 673". 673.039

Moore's Corner, in ledge opposite T road; chiseled circle. 637.57

Star school, 0.9 mile southwest of, at corner, 20 feet north of T road, on small boulder 50 feet west of intersection; chiseled square. 739.65

Star school, 0.25 mile southwest of, at corner, 50 feet south of intersection, in boulder in west margin of road; bronze tablet stamped "761". 761.237

Stone school, in southwest corner of crossroads at, in boulder; chiseled circle. 872.32

Clare Town Hall, 1 mile north of, 0.4 mile north of road west, in boulder in east margin of road; bronze tablet stamped "877". 876.509

Clare Town Hall, 150 feet north of, southeast abutment of bridge over Buck Brook; chiseled circle. 803.80

Clare Town Hall, 0.7 mile south of, 800 feet south of church, in west side of concrete culvert; chiseled square. 808.71

Clare cheese factory, 850 feet south of, 75 feet north of road west, in west side of concrete culvert; bronze tablet stamped "816". 815.798

Clare school 1, 100 feet south of, on west side of concrete culvert; chiseled square. 815.47

Clare, 650 feet north of Middle Branch bridge, in east side of concrete culvert; bronze tablet stamped "Prim. Trav. Sta. No. 7, 829". 828.534

Degrassse, at road fork, 0.1 mile north of bridge over Grass River, on ledge; chiseled circle. 854.36

Degrassse, at crossroads, 200 feet west of school, on north side of concrete culvert; chiseled square. 868.12

Degrassse, 0.7 mile south of, at corner, on rock in west margin of road chiseled circle. 928.27

Degrassse, 1.7 miles southwest of, in southeast abutment of bridge over Plum Creek; bronze tablet stamped "904". 903.922

From Degrassse southeast along highway to point 0.9 mile east of Clifton.

Degrassse, 1.6 miles southeast of, along road to Newbridge, on boulder in north margin of road; chiseled circle. 946.92

Clifton, 0.1 mile southeast of, in south side of concrete culvert; bronze tablet stamped "903". 963.223

Clifton, 0.9 mile southeast of, in north side of concrete culvert; chiseled square. 1,035.40
Precise and primary leveling.

Near Edwards.

Edwards, 1.08 miles northeast of post office, on boulder 20 feet east of center of road; chiseled square. 653.24 Feet.

Edwards, 2.23 miles northeast of, in front yard of James W. Davis's residence, in granite boulder, 30 feet from road; bronze tablet stamped "634". 634.206

Edwards, 3.4 miles northeast of, on rock midway between road and E. Bancroft's barn; chiseled square. 729.45

From point near Trout Lake to point near Hermon.

Trout Lake, 1.91 miles northeast of schoolhouse, 260 feet north of E. Taylor's house, 6 feet east of road, on granite ledge; chiseled square. 704.30

Hermon, 3 miles south of, at Porter Hill crossroads, 35 feet south of intersection, 6 feet west of road, in granite outcrop; bronze tablet stamped "701". 700.934

Marshville, 0.8 mile south of, 375 feet north of road to east, on rock, 6 feet east of road; chiseled square. 585.58

Marshville, 450 feet north of crossroads, on west side of concrete culvert; chiseled square. 493.32

Hermon, 0.5 mile west of, at first crossroads out of town, 25 feet south of intersection, 12 feet east of road; bronze tablet stamped "497". 496.678

Leveling in 1916 by F. L. Shalibo.

From near Sellecks Corners southwest along highways to Clare.

Sellecks Corners, 1.6 miles west of, at east edge of bog, on northwest side of road, in rock; chiseled square marked "t. b. m. 958.3". 958.79

Sellecks Corners, 2.7 miles southwest of, at three corners, in front of M. Austin's residence, in large rock; bronze tablet stamped "P. B. M. 1013". 1,013.652

Sellecks Corners, 3.7 miles southwest of, at foot of hill, on cement culvert; chiseled square marked "t. b. m. 823.1". 828.68

Sellecks Corners, 4.6 miles southwest of, 100 feet below A. Garnard's residence, on opposite side of road, in rock; chiseled square marked "t. b. m. 823.6". 824.14

Clare, 150 feet north of Town Hall, in southeast abutment of bridge over Book Brook; chiseled circle marked "t. b. m. 803.8". 803.80

St. Regis Quadrangle.

[Latitude 44° 15'-44° 30'; longitude 74° 15'-74° 30'.]

Precise leveling in 1900 by C. H. Semper.

From Blue Pond along New York & Ottawa R. R. to Brandon.

Blue Pond, in front of station; top of rail. 1,552.7

Blue Pond, 5 miles north of, 1,300 feet north of milepost "T. 18 & O. 110." in large boulder 10 feet west of track; bronze tablet stamped "1551 Albany 1900". 1,551.259

Brandon, in front of station; top of rail. 1,603.4

Brandon, 1 mile north of, 0.4 mile north of milepost "T. 23 & O. 105." in large boulder 10 feet west of track; bronze tablet stamped "1595 Albany 1900". 1,594.129

Primary leveling in 1901 by C. H. Semper and in 1902 by George Seidel.

From Saranac Junction southwest along the New York Central R. R. to Tupper Lake Junction.

Saranac Inn, in front of station; top of rail__________________________ 1,622.3
Saranac Inn, 1.7 miles west of, 200 feet south of milepost (Herkimer 146), in middle of rock cut; aluminum tablet stamped "1632 Ft. Covington 1901"______________________________ 1,631.920
Floodwood, at road crossing; top of rail____________________________ 1,594.0

From Paul Smith station west along public roads via Paul Smith post office to Brandon.

Paul Smith post office (Corning Point), 900 feet south of store, in boulder, aluminum tablet stamped "1632 Ft. Covington"________ 1,631.943
Paul Smith post office, 2.8 miles west of, at power house; northeast corner of concrete dam__________________________ 1,620.77
Brandon, in front of station; top of rail____________________________ 1,603.3

At Wawbeek.

Wawbeek, 100 feet west of road corners, at south side of road, in boulder; aluminum tablet stamped "1650 A"__________________________ 1,650.771

SALAMANCA QUADRANGLE.

Precise leveling in 1898 by E. L. McNair.

From West Salamanca southeast along Erie R. R. to Allegany.

West Salamanca, in front of flag station; top of rail__________________ 1,372.6
Salamanca, in front of Erie station; top of rail______________________ 1,387.5
Salamanca, Union School building on Maple street, in water table at right of entrance; aluminum tablet stamped "1391 Dunkirk 1899"________ 1,391.485
Killbuck, in front of flag station; top of rail________________________ 1,385.6
Carrollton, in front of station; top of rail___________________________ 1,391.0
Carrollton, 475 feet east of Erie station, west pier of Buffalo, Rochester & Pittsburgh Ry. iron bridge crossing over Erie tracks; bronze tablet stamped "1393 D"__________________________ 1,394.641
Vandalia, in front of Erie station; top of rail________________________ 1,407.8
Allegany, 1.8 miles west of Erie station, on stone arch culvert under Erie R. R., 75 feet east of road crossing, south end of next to top step; bronze tablet stamped "1408 D"__________________________ 1,408.938

Primary leveling in 1897 by E. L. McNair.

From South Vandalia southeast through Chipmunk oil fields to Knapp Creek.

Chipmunk, 0.8 mile south of, 55 feet south of road east and 140 feet north of M. Kelly's white house, 2 feet outside of fence on west side of road; copper bolt in boulder stamped "1529 Ft. S"______________ 1,524.144

Carrollton south via Limestone to New York-Pennsylvania State line.

South Carrollton, 1.2 miles south of, iron highway bridge crossing Allegheny River, on bridge abutment 8 feet from southeast corner; chiseled square__________________________ 1,397.23
South Carrollton, 2 miles south of, 4 miles north of Limestone, in large boulder nearly buried in ground on west side of road, between it and ditch, near entrances to pasture fields on each side of road; copper bolt stamped “1410 Ft. S” ____________________ 1,405.718

Limestone, 2 miles south of, 9 feet from southwest corner of iron bridge over stream just inside State line, in stone abutment; chiseled square __________________________ 1,413.47

Limestone, 2.3 miles south of, on west side of road, near oil derrick, opposite telephone pole 6050, on top of State-line monument; chiseled square __________________________ 1,450.83

Killbuck northeast to Great Valley, thence east to Humphrey.

Killbuck, 3.9 miles north of, at southwest corner of iron bridge across Wrights Creek at about 0.25 mile above its junction with Great Valley Creek, in stone abutment; copper bolt stamped “1456 Ft. S” ____________________ 1,451.923

Great Valley, 2.52 miles southeast of, northwest corner of iron bridge across Wrights Creek, near a white church, on stone abutment; chiseled square __________________________ 1,513.61

Humphrey, 1.7 miles west of, 4 feet from southeast corner of iron bridge across Wrights Creek, on stone abutment; chiseled square __________________________ 1,543.98

Humphrey, W. J. Sherman’s hotel, in stone doorstep in front of porch, west side; copper bolt stamped “1626 Ft. S.” __________________________ 1,621.444

SANGERFIELD QUADRANGLE.

[Latitude 42° 45'-43°; longitude 75° 15'-75° 30'.]

Precise leveling in 1901 by D. H. Baldwin.

From Richfield Junction south along Delaware, Lackawanna & Western R. R. to Bridgewater, thence along Unadilla Valley Ry. to West Edmeston.

Richfield Junction, 2.84 miles south of, at North Bridgewater crossing near old milk station, top of east rail __________________________ 1,235.9

Bridgewater, in front of station; top of east rail __________________________ 1,198.1

Leonardsville, at southeast corner of milk station, in face of corner stone of foundation; aluminum tablet stamped “1152 Albany 1901” __________________________ 1,152.551

Leonardsville, at crossing near station; top of east rail __________________________ 1,148.7

West Edmeston, crossing; top of east rail __________________________ 1,138.8

West Edmeston, northeast corner of highway bridge, on coping stone of east abutment; chiseled square __________________________ 1,134.21

Primary leveling in 1904-5 by G. M. Dimmick.

From Richfield Junction along Delaware, Lackawanna & Western R. R. southwest via Waterville and New Brookfield to Poolville.

Paris station, in foundation wall of the residence of J. W. Pugh, east end of north face; bronze tablet stamped “1423 1903 Adj” __________________________ 1,423.286

Waterville, 150 feet west of station, in foundation wall of N. C. Bohn & Son’s shoe shop, south end of east face; aluminum tablet stamped “1237 Albany Adj” __________________________ 1,237.417

Sangerfield, 200 feet east of station, in foundation wall of residence of M. L. Williams; bronze tablet stamped “1250 Albany 1903 Adj” __________________________ 1,250.190
North Brookfield, in foundation wall of Cedar Valley Hotel, north end of west face; aluminum tablet stamped "1201 Albany 1903 Adj" .......................................................... 1,200.680
Hubbardsville, in foundation wall of Hotel Green, east end of north face; bronze tablet stamped "1202 Albany 1903 Adj" .................. 1,202.113

From Bouckville northeast along New York, Ontario & Western Ry. to Deansboro, thence southeast to Waterville.

Oriskany Falls, in foundation wall of the store of E. McGlynn, east end of south face; bronze tablet stamped "978 Adj 1903" ................. 978.320
Deansboro, in foundation wall of the United States milk condensery, east end of south face; bronze tablet stamped "795 Adj 1903" .......... 795.020
Forge Hollow, 0.51 mile southeast of, in foundation wall of stone schoolhouse, south end of east face; aluminum tablet stamped "987 Adj 1903" .................................................. 986.810

From Richfield Junction south along Delaware, Lackawanna & Western R. R. to Bridgewater.

Bridgewater, in foundation wall of Congregational Church, north end of east face; bronze tablet stamped "1215 Albany 1903 Adj" .......... 1,215.112

SANTA CLARA QUADRANGLE.¹

[Latitude 44° 30'-44° 45'; longitude 74° 15'-74° 30'.]

Precise leveling in 1900 by C. H. Semper.

From Leboeuf along New York & Ottawa R. R. to Santa Clara.

Leboeuf, 0.3 mile north of, in large rock 125 feet north of section post 14-15, and 50 feet east of railroad; bronze tablet stamped "1556 Albany 1900" .......................................................................................... 1,555.690
Spring Cove, in front of station; top of rail ........................................ 1,342.6
Santa Clara, in front of station; top of rail ......................................... 1,337.4
Santa Clara, 0.7 mile north of, 750 feet north of milepost "T. 37 & O. 91," in large rock 10 feet east of railroad; bronze tablet stamped "1306 Albany 1900" .................................................. 1,306.086

SANTANONI QUADRANGLE.

[Latitude 44°-44° 15'; longitude 74°-74° 15'.]

Primary leveling in 1901 by C. H. Semper.

From Axton via Ampersand and Preston Ponds to Averyville.

Axton, 6.5 miles east of, 0.7 mile southwest of Ampersand Lake, 450 feet west of old lumber camp, 10 feet south of road, on large rock 20 by 15 feet; bronze tablet stamped "1917 Ft. Covington 1901" ...... 1,917.438
Averyville, 550 feet south of school, 20 feet west of west margin of road, in large boulder 8 feet square; bronze tablet stamped "2069 Ft. Covington 1901" .................................................. 2,069.446

From Averyville via Lake Placid and along the Chateaugay R. R. to Lake Placid.

Averyville, 1.9 miles northeast of, iron bridge over river, west side of north abutment, on top of bridge seat; chiseled square .................. 1,817.88

¹ See Bull. 514, p. 13, for other elevations.
PRECISE AND PRIMARY LEVELING.

From Newcomb north along road toward Cold River (single-spur line).

Newcomb, 7.3 miles north of, 0.8 mile west of Moose Pond, on road to Cold River at top of hill, 30 feet east of road, on large rock; bronze tablet stamped "1910 Ft. Covington 1901." 1,909.615

From Preston Ponds south along trail and public roads via Upper Iron Works to Tahawas.

[Excessive error distributed in this line.]

Preston Ponds, 800 feet south of Upper Pond, on east margin of trail between Upper Pond and Henderson Lake, in face of rock; bronze tablet stamped "2180 Ft. Covington 1901." 2,179.791

Upper Iron Works, opposite Tahawas Club house, 65 feet east of road; on large rock; bronze tablet stamped "1771 Ft. Covington 1901." 1,770.881

SARANAC QUADRANGLE.

[Latitude 44° 15'–44° 30'; longitude 74°–74° 15'.]


From Lake Placid along railroad to Saranac Lake.

Lake Placid, 2.8 miles west of, north end of west abutment of stone culvert; top of bridge seat, chiseled square 1,631.88
Lake Placid, 4.5 miles west of, north end of east abutment of stone culvert; top of parapet wall, chiseled square 1,570.97
Ames Mills, at road crossing; top of rail 1,569.0
Saranac Lake, stone building formerly the Baptist Church, opposite Grand Union Hotel, in north face of foundation wall; aluminum tablet stamped "1549 Ft. Covington 1901." 1,548.97

From Saranac Lake northwest along New York Central R. R. via Lake Clear to Saranac Junction.

Saranac Lake, in front of New York Central R. R. station; top of rail 1,574.0
Lake Clear (Saranac Junction), in front of station; top of rail 1,632.7
Lake Clear (Saranac Junction), 800 feet south of station, railroad water tank, on top of southeast foundation stone nearest track; chiseled square 1,630.25

From Saranac Lake southwest along State road via Ampersand Hotel to clearing (single-spur line).

Saranac Lake, 6.4 miles southwest of, on north edge of clearing, on face of large rock; aluminum tablet stamped "1678 Ft. Covington 1901." 1,678.218

From Saranac Junction northeast along New York Central & Hudson River R. R. via Paul Smith station to Onechiota.

Saranac Junction, west side of railroad, southeast corner of foundation stone of water tower; aluminum tablet stamped "1630 Ft. Covington." 1,630.474
Paul Smith station, road crossing at station; top of rail 1,701.2
Paul Smith station, 665 feet west of track, 225 feet north of road to post office, in boulder; bronze tablet stamped "1704 Ft. Covington". 1,703.800
Rainbow Lake, road crossing at station; top of rail. 1,708.5
Onchiota, 200 feet south of station, east side of track, in big boulder; aluminum tablet stamped "1710 Ft. Covington". 1,710.514

**From Paul Smith station east along public roads to Bloomingdale, thence north via Vermontville to Onchiota.**

Bloomingdale station, road crossing; top of rail. 1,555.8
Bloomingdale station, iron bridge, 70 feet east of north side of road, in large boulder; aluminum tablet stamped "1530 Ft. Covington". 1,529.666
Vermontville, 5.6 miles north of, road crossing, in large boulder; aluminum tablet stamped "1776 Ft. Covington". 1,776.288

**SARATOGA QUADRANGLE.**

[Latitude 43°–43° 15'; longitude 73° 45'–74°.]

Precise leveling in 1899 by E. L. McNair.

**From Ballston Spa north along Delaware & Hudson R. R. to Kings.**

Ballston Spa, Saratoga County courthouse, foundation stone 4 feet left of main entrance; aluminum tablet stamped "320 Albany". 320.848
Saratoga Springs, Loughberry Lake, surface of water. 283.0
Saratoga Springs, Delaware & Hudson R. R. station, 1,500 feet south of, at east end of north abutment of steel-girder bridge over Congress Street, in coping stone; aluminum tablet stamped "314 Albany 1899". 314.410
Greenfield station, 0.33 mile north of, at southeast corner of stone culvert under railroad, in coping stone; aluminum tablet stamped "596 Albany 1899". 596.343
Kings, 0.8 mile north of station, at northeast corner of stone culvert under railroad, in coping stone; aluminum tablet stamped "602 Albany 1899". 602.834

Primary leveling in 1899 by J. E. Thomas.

**From Ballston Spa via Factory village to Middlegrove.**

Factory village, east abutment of bridge over creek; bench mark at southwest corner. 354.48
Rock City Falls, on wall of flume at Pioneer Mills, 50 feet south of track; chisel mark. 400.49
Rock City Falls, southeast corner of mill, 40 feet east of stone bridge; aluminum tablet stamped "445 Albany". 445.760

**From East Galway east to South Greenfield.**

East Galway, in east side of foundation wall of Baptist Church; bronze tablet stamped "889 Albany". 889.598
Rock City Falls, 2.5 miles northwest of, near gristmill at Middlegrove; northwest corner of west abutment to iron bridge over Kayaderosseras Creek. 523.56
Middlegrove, in east end of south abutment of iron bridge over Kayaderosseras Creek; bronze tablet stamped "523 Albany". 523.515
PRECISE AND PRIMARY LEVELING.

From Hadley south to Corinth (single-spur line).

Corinth, in northwest corner of Baptist Church; bronze tablet stamped “626 Albany”

**Feet.**

626.057

SCHENECTADY QUADRANGLE.¹

[Latitude 42° 45’-43°; longitude 73° 45’-74°.]

Precise leveling in 1899 by E. L. McNair.

From Schenectady north along Delaware & Hudson R. R. to Ballston Lake.

Ballston Lake, 0.75 mile north of, coping stone at west end of stone culvert under railroad; aluminum tablet stamped “269 Albany 1899” (mutilated)

269.116

Precise leveling in 1898 by E. L. McNair.

From Schenectady east along Erie Canal to point 6.5 miles east of Rexford.

Schenectady, New York Central & Hudson River R. R. bridge over Erie Canal, northeast corner of coping stone of abutment wall; bronze tablet stamped “242 A”

241.195

Schenectady, 4 miles east of, Rexford Feeder bridge, Erie Canal; coping 1.5 feet from south corner west abutment

217.244

Rexford, 3.5 miles east of; coping stone on south corner of east wall of west lock 20

208.305

Rexford, 3.5 miles east of; top of screw bolt fastening down collar of southwest gate of west lock 20

208.396

Rexford, 6.5 miles east of; top of projection of stone on second course of masonry at east corner of south abutment of second canal bridge below lock 19

190.870

SCHOHARIE QUADRANGLE.

[Latitude 42° 30’-42° 45’; longitude 74° 15’-74° 30’.]

Precise leveling in 1898 by E. L. McNair.

From Cobleskill northeast along Delaware & Hudson R. R. to Esperance.

Cobleskill, Union school building, stone foundation at northwest corner; bronze tablet stamped “930 A”

929.004

Cobleskill, in front of Delaware & Hudson station; top of north rail

909.1

Barnerville, crossing, on rock 50 feet north of railroad; chiseled square

903.833

Barnerville, crossing, in front of station; top of north rail

906.1

Howe Cave, in front of Delaware & Hudson station; top of south rail

795.4

Howe Cave, 1.2 miles east of, bridge seat at northwest corner of small bridge or open culvert; bronze tablet stamped “731 A”

730.725

Central Bridge, in front of Delaware & Hudson station; top of north rail

621.1

Schoharie Junction, in front of Delaware & Hudson station; top of north rail

598.8

Esperance, 1,250 feet west of Delaware & Hudson station, north end of stone culvert under Delaware & Hudson R. R., in coping stone; bronze tablet stamped “753 A”

752.440

Esperance, in front of Delaware & Hudson station; top of north rail

768.0

¹ See Bull. 514, pp. 65-67, for other elevations.
Primary leveling in 1898 by Clark Brown.

From Shutts Corners to Barnerville.

Shutts Corners, schoolhouse; east end of doorsill

Barnerville, 200 feet west of covered bridge, 100 feet north of Main Street, at iron bridge over mill race, south abutment, east wing; aluminum tablet stamped “A 827”

From Barnerville east to Schoharie, thence south to Middleburg.

Schoharie, courthouse, south side of south door in west front, beveled jamb; aluminum tablet stamped “A 611”

Schoharie, 1.25 miles south of Bridge Street, on railroad bridge, north abutment, west wing, second step, domelike fossil 6 inches from face

Middleburg, schoolhouse, east front, south of entrance, in foundation wall; aluminum tablet stamped “A 649”

Breakabeen, Lutheran Church, in west foundation, 5 feet from corner; aluminum tablet stamped “A 754”

West Fulton, iron bridge across Panther Creek, south abutment, east end, in coping; aluminum tablet stamped “A 1156”

Vintonton, 0.25 mile south of, schoolhouse; south end of doorsill

From Middleburg south to Franklinton.

Middleburg, 1.75 miles southeast of, iron bridge, north abutment, east wing, on bridge seat; chiseled square

Franklinton, schoolhouse, southwest corner of foundation; aluminum tablet stamped “A 1215”

SCHROON LAKE QUADRANGLE.

[Latitude 43° 45’-44°; longitude 78° 45’-74°.]

Primary leveling in 1896 by A. F. Krause.

From North Creek north via Minerva to Aiden Lair.

Minerva, in north end of picket fence southeast of Kellogg House, in large boulder 15 feet to right and 1.5 feet above road; copper bolt stamped “U. S. G. S. 1393 Ft. B. M.”

Minerva, 1.75 miles north of, 50 feet east of Kellogg House, at junction of road to North Woods Club, south of schoolhouse, 26 feet to right of and 7.3 feet above center of road, in outcrop; copper bolt stamped “U. S. G. S. 1742 Ft. B. M.”

SCHUNEMUNK QUADRANGLE.

[Latitude 41° 15’-41° 30’; longitude 74°-74° 15’]

Primary leveling in 1899 by Seth Van Loan.

From Cornwall via Newburg Junction along the Erie R. R. to Oxford.

Cornwall, 600 feet north of, New York, Ontario & Western Ry. bridge, in face of west abutment; bronze tablet stamped “Albany 271”

Mountainville, 0.5 mile north of, west end of south abutment of railroad bridge; point on bridge seat
Woodbury, 200 feet south of station; point on northeast foot block at end of truss bridge. 435.90

Central Valley, 200 feet north of station, south abutment, east end bridge seat; point on stone. 484.20

Central Valley, west of Nuxon's store, in large stone in retaining wall of Finken's place; bronze tablet stamped "Albany 488" (loose). 489.334

Newburg Junction, 0.5 mile north of, east end of south abutment of railroad bridge; point on bridge seat. 518.22

Arden, 300 feet north of, north abutment of bridge over stream; point on top, east end, chisel mark. 522.16

Arden, 300 feet north of station, railroad bridge over stream, in pier top, east end; bronze tablet stamped "Albany 519" (covered by dirt). 520.695

Doyles, 0.25 mile east of, face of large boulder in road; bronze tablet stamped "Albany 718" (reported destroyed). 719.921

Turners, 300 feet west of, west abutment of bridge, on north end; chisel mark. 554.78

Monroe, 0.5 mile east of, west abutment of culvert; point on top of north end. 592.32

Oxford, 300 feet east of, east abutment of overhead bridge; point on north end. 531.92

Craigville, 300 feet north of, south abutment, east end of cattle pass; point second step from top. 423.42

Farmingdale, 500 feet north of, south abutment, east end of cattle pass; point on top. 379.27

Elsmere, 0.5 mile south of, west of north abutment of cattle pass; point on second step from top. 372.80

Burnside, 1.25 miles east of, in west face of east abutment of concrete-arch railroad bridge 35; bronze tablet stamped "359 Albany". 358.823

Meadowbrook, 400 feet east of; point on north end of east abutment of culvert. 337.2

Cornwall, 0.4 mile east of, south abutment of Erie R. R. bridge; point on coping at west end. 338.34

Cornwall, west abutment of New York, Ontario & Western Ry. bridge; point on step, north end. 271.82

From Oxford north to Burnside, thence east to Cornwall.

Craigville, 300 feet north of, south abutment, east end of cattle pass; point second step from top. 423.42

Farmingdale, 500 feet north of, south abutment, east end of cattle pass; point on top. 379.27

Elsmere, 0.5 mile south of, west of north abutment of cattle pass; point on second step from top. 372.80

Burnside, 1.25 miles east of, in west face of east abutment of concrete-arch railroad bridge 35; bronze tablet stamped "359 Albany". 358.823

Meadowbrook, 400 feet east of; point on north end of east abutment of culvert. 337.2

Cornwall, 0.4 mile east of, south abutment of Erie R. R. bridge; point on coping at west end. 338.34

Cornwall, west abutment of New York, Ontario & Western Ry. bridge; point on step, north end. 271.82

SCHUYLERVILLE QUADRANGLE. ¹

Schuylerville, in front of station; top of rail. 175.0

Schuylerville, corner of College and Green streets, school building, under second window from west corner; bronze tablet stamped "216 A". 215.149

Victory Mills, in front of station; top of rail. 192.7

Victory Mills, southwest corner of Gates Avenue and Pine Street, southeast corner of foundation of hotel, on projecting stone; chisel mark. 200.64

Gates in front of station; top of rail. 234.0

¹ See Bull. 514, pp. 53-55, for additional elevations.
Burgoyne, bridge over Saratoga Lake outlet, north abutment, east face, corner of coping; chiseled square.

Burgoyne, road crossing at station; top of rail.

Stafford, in front of station; top of rail.

Schuyler Junction, 1.5 miles west of, double-span bridge, center pier, southwest corner, coping; chiseled square.

From Saratoga along Fitchburg and Delaware & Hudson railroads northeast via Gansevoort to Fort Edward.

Saratoga, 5.5 miles northeast of, South Wilton Church, south side near front, in foundation; bronze tablet stamped "327 A" (reset 1913, elevation doubtful).

Gansevoort, 3.75 miles south of, railroad bridge over road, outside anchor; bolt in southeast wall plate.

Gansevoort, Empire House, south side, near front, in brickwork; bronze tablet stamped "246 A".

From Schuylerville to Champlain Canal bridge 56.

Schuylerville, Ferry Street canal bridge, towpath abutment, north wing, face corner, second step from bottom; chiseled cross in circle (canal bench mark 42).

Schuylerville, 2 miles south of canal bridge 56; towpath abutment, north wing, face corner; chiseled cross in circle (canal bench mark 41).

From Schuylerville east to Bald Mountain, thence south to Easton Corners, thence west to Sarles Ferry.

Schuylerville, 1.5 miles north of, canal bridge 63, towpath abutment, south end, lower step, face corner; chiseled cross in circle (canal bench mark 45).

Schuylerville, 1.75 miles north of, lock 10, coping, southeast anchor; chiseled cross in circle (canal bench mark 46).

Middle Falls, south bank of creek, 75 feet east of covered bridge, southeast corner of brick gristmill; bronze tablet stamped "303 A".

North Easton (Easton Corners), 0.1 mile north of, 10-foot arch culvert, southwest wing, first stone back of arch on level with base; bronze tablet stamped "332 A".

From Sarles Ferry northeast via Quaker Springs to Staffords Bridge.

Sarles Ferry, opposite, on Champlain Canal, waste weir 7, north wing, southeast corner of coping; painted cross in circle (Canal bench mark 37 and Deep Waterways bench mark).

Quaker Springs, 600 feet west of crossroads, north side of road, in outcrop; bronze tablet stamped "321 A".

Schuyler, Staffords Bridge, east end of north abutment, back corner of coping; chiseled square.

From Bald Mountain north via Durkeetown to Fort Edward.

Durkeetown Church, south side, 10 feet from rear corner, in stone foundation; bronze tablet stamped "171 A".
SETAUKET QUADRANGLE.

[Latitude 40° 45’-41°; longitude 73°-73° 15’.]

Primary leveling in 1902 by A. P. Meade.

From Kings Park east along Long Island R. R. to Port Jefferson, thence along highways south to Holtsville, thence west to Brentwood.

Smithtown, southwest wing wall of big railroad bridge, cement pier, west end of bridge; bronze tablet stamped “26 Willets”

Stony Brook, 300 feet east of station, 30 feet north of track, at foot of triple tree; top of big rock, chiseled square

Setauket, 100 feet west of station, north side of east abutment of railroad bridge; top of first step below coping

Port Jefferson, at east end of station, railroad crossing; top of north rail

Port Jefferson, railroad crossing, 6 feet north of track, west side of highway crossing, 25 feet east of freight station; iron post stamped “192 Willets”

Selden, northwest corner of Methodist Church, in brick foundation; bronze tablet stamped “108 Willets”

Ruland Hill, Coast and Geodetic Survey triangulation station, 1.9 miles south of Selden; top of east stone reference post

Holtsville, north face of brick house south of track, 150 feet east of station; bronze tablet stamped “104 Willets”

Ronkonkoma, east end of station, in grass plot, south of highway, north of track; iron post stamped “108 Willets”

From point 1.4 miles east of Brentwood north along highway to Smithtown branch.

Hauppauge, in front of post office, road crossing; top of big milestone

Smithtown branch railroad crossing, south side of track, east side of highway, west end of station; spike in telegraph pole

From Patchogue north to Holtsville.

Patchogue, Coast and Geodetic Survey gage bench mark 1, about 80 yards from shore, west of Ocean Avenue; 4 spikes in twin cedar tree (elevation given by Coast Survey)

Patchogue, railroad freight station, north side of track, in northeast corner of brick wall; aluminum tablet stamped “15 Willets Pt.”

SILVER CREEK QUADRANGLE.

[Latitude 42° 30’-42° 45’; longitude 79°-79° 15’.]

Precise leveling in 1902 by D. H. Baldwin.

From Angola southwest along Lake Shore & Michigan Southern Ry. to Silver Creek.

Angola, 1.69 miles northeast of, northeast corner of trestle over cattle pass, 1 foot above track, on coping stone of wing wall; chiseled square

Angola, 0.51 mile northeast of, southwest corner of truss and stone-arch bridge 228, near northwest corner of coping stone; chiseled square

Angola, in front of station; top of rail

Farnham, southeast corner of bridge 220, in east face of parapet coping stone; bronze tablet stamped "633 Rochester 1902". Feet. 632.956

Farnham, in front of station; top of rail. 632.3

Farnham, 1.21 miles southwest of, northeast corner of culvert 218, on coping stone; chiseled square. 610.15

Irving, in front of station; top of rail. 601.7

Silver Creek, southeast corner of bridge 207 over Dunkirk Street, near east corner of parapet wall; chiseled square. 622.10

Silver Creek, in front of station; top of rail. 625.5

Silver Creek, 1.58 miles southwest of, southeast corner of bridge 204 (A52), near southeast corner of parapet stone; chiseled square. 628.02

SKANEATELES QUADRANGLE.
[Latitude 42° 45'-43°; longitude 76° 15'-76° 30'.]

Primary leveling in 1896 by A. B. Pomme.

From Skaneateles south along highway to Owasco, thence southeast to Glenhaven.

Skaneateles, in west wing of wall of State dam, first step from top; copper bolt stamped "U. S. G. S. B. M. 870 ft.". 866.648

Owasco, brook north of, on northwest seat of iron bridge; chiseled square. 792.47

Owasco, 0.25 miles southeast of, on road to Twelve Corners, in fifth foundation stone from south end of dry wall on east side of north approach to small iron bridge; copper bolt stamped "U. S. G. S. B. M. 853 ft.". 849.588

Owasco, 2 miles from, on north wing stone, southwest end of culvert, at forks of road; chiseled square. 1,175.88

Twelve Corners, house in northeast corner of road crossing, on boulder in front yard; chiseled square. 1,391.91

Kelloggsville, opposite road from Twelve Corners, west side of maple tree and scales in front of W. D. Sayle's store, in boulder; copper bolt stamped "U. S. G. S. B. M. 1424 ft.". 1,421.185

Sayles Corners, at south end of culvert across road from east; chiseled square. 1,587.33

Skaneateles Lake, bridge over south inlet at intersection of roads southwest and north and south, on stone 3 feet east of southwest bridge seat; chiseled square. 976.17

Glenhaven, iron bridge at south inlet of Skaneateles Lake, on northwest bridge seat; chiseled square. 868.95

From Marcellus station south to Marcellus.

Marcellus station, road culvert west of; southeast corner of coping stone on south wing wall. 431.58

Limekiln, bridge across mill race opposite, on coping stone of northeast end of northeast wall; chiseled square. 470.52

Marcellus Falls, at road running east, stone arch over creek, on coping stone at west end of parapet wall; chiseled square. 513.17

Marcellus powder works, iron bridge south of, on southeast bridge seat; chiseled square. 611.03

Marcellus, stone arch over Otisco Lake outlet (Ninemile Creek), on coping stone north of parapet wall; chiseled square. 651.21
Marcellus, Main street, stone arch over Otisco Lake outlet (Ninennie Creek), in fourth coping stone east from angle at west end of north parapet wall, a little west of center; copper bolt stamped “U. S. G. S. B. M. 655 ft.”

From Skaneateles southeast along highway to Marietta, thence south to Glenhaven.

Clintonville, culvert under road from south, on stone at southeast end; chiseled square

Marietta Hotel, at corner of roads to Clintonville and Rose Hill, on foundation stone north corner of plaza; chiseled square

Otisco Lake, highway bridge below State dam, on road from Marietta to Amber, southwest corner of bridge seat; chiseled square

Otisco Lake outlet, at west end of State dam, close to gate chamber; crest of spillway

Otisco Lake outlet, east wing of State dam, in south coping stone; copper bolt stamped “U. S. G. S. B. M. 789 ft.”

Borodino, 0.5 mile north of, Thorn Hill road, 215 feet south of intersection of first road running east, in sandstone boulder on east side of driveway; copper bolt stamped “U. S. G. S. B. M. 1021 ft.”

Spafford, in northwest corner of road crossing; water table at southeast corner of church

Spafford, 0.5 mile south of, in Bruce Norton’s lot, 200 feet from fence on bank of small brook, east side of road; copper bolt stamped “U. S. G. S. B. M. 1654 ft.”

From Moravia north to Cascade.

Cascade Hotel, 1.25 miles northwest of, in limestone boulder; 10 feet southwest of bridge over small brook, on road running north and south; copper bolt stamped “U. S. G. S. B. M. 1061 ft.”

SLIDE MOUNTAIN QUADRANGLE.

[Latitude 41° 45’-42°; longitude 74° 15’-74° 30’.

Primary leveling in 1903 by G. M. Dimmick and in 1900 by W. S. D. Moore.

From Brodhead northwest to Boiceville.

Shokan, 0.2 mile east of station, west abutment of bridge 22, north end, bedplate; bronze tablet stamped “532 Albany”

From Shokan to Olive City, thence southwest along highway to Samsonville, thence south to Kerhonkson, thence along railroad southwest to Napanoch.

Samsonville, 50 feet south of Methodist Church, in limestone outcrop; bronze tablet stamped “855 Albany 1903”

Kerhonkson, in water table at center of east face of New York, Ontario & Western depot; aluminum tablet stamped “254 Albany 1903”

1 Found necessary to establish a new bench mark at Otisco Lake outlet; old bench mark still in same position, but owing to rise in surface of water it is at times inundated. New bench mark on southwest abutment of new dam about 12 inches from batter line. Mark is 1-inch copper bolt marked “B. M.” elevation 790.15 feet. Spillway elevation of new dam is 786.6 feet.
From Napanoch northwest along highway to Eureka, thence northeast to Sundown (single-spur line).

Lackawack, 0.3 mile northwest of, in foundation wall of Methodist Church, east face, 5 feet from southeast corner; bronze tablet stamped "691 Albany 1903". 691.304

Lackawack, 3.61 miles northwest of, highway bridge over small stream; point on top of west end of south abutment. 760.32

Sundown, in foundation wall of Methodist Church, north end of west face; bronze tablet stamped "903 Albany 1903". 993.485

From point west of Sundown north along highway to Denning (single-spur line).

Denning, in foundation wall of Hotel Erts, east end of south face; aluminum tablet stamped "1965 Albany 1903". 1,964.941

STARK QUADRANGLE.

[Latitude 44° 15'-44° 30'; longitude 74° 45'-75°.]

Leveling in 1914 by K. E. Schlachter.

From point near Clifton south along highway and log railroad to point north of Newton Falls.

Newbridge, 3.2 miles northwest of, 50 feet west of Bristol camp, on north side of concrete culvert; chiseled square. 1,258.63

Newbridge, 2.4 miles northwest of, at camp, in north side of concrete culvert; bronze tablet stamped "1222". 1,221.388

Newbridge, 250 feet southeast of company's store, in granite boulder; bronze tablet stamped "1237". 1,236.822

Newbridge, 1.3 miles south of, in east margin of track, in boulder; chiseled circle. 1,353.51

Newbridge, 3 miles south of, on large boulder on east edge of track; chiseled circle. 1,406.86

Leveling in 1916 by F. L. Shalibo.

Along highways near south border of quadrangle.

Carter station, 0.7 mile west of, 3 miles east of Cranberry Lake, 1,300 feet east of bridge over Grass River, 20 feet north of Grass River R. R. track, in large boulder; bronze tablet stamped "Prim. Trav. Sta. No. 5, 1916, Elev. 1417". 1,416.635

Carter station, 0.4 mile west of, at road crossing; top of rail. 1,444.46

Carter station, at southeast corner of, in root of stump; copper nail marked "t. b. m. 1474.2". 1,474.26

Brandy Brook station, 350 feet west of, in foundation of switch lever at east end of Y; copper nail marked "1469.6". 1,469.61

Brandy Brook station, 1.1 miles east of, on south side of track, 100 feet west of barn of lumber camp, in root of old stump; copper nail marked "t. b. m. 1501.1". 1,500.16

From center of east border of quadrangle northwest along highways to South Colton.

Hollywood, 3.8 miles north of, at Carry Falls road, on east side in large boulder; chiseled square marked "t. b. m., also primary traverse point 1376.1". 1,376.25
PRECISE AND PRIMARY LEVELING.

McKizer's Hotel, 100 feet northeast of, in large boulder; bronze tablet stamped "Prim. Trav. Sta. 1356" 1,356.04 feet.

McKizer's Hotel, 0.7 mile northwest of, at forks of road leading to Joe Indian Pond, on southwest side of road, in wooden stake; copper nail marked "t. b. m. 1286.6" 1,286.75 feet.

McKizer's Hotel, 1.9 miles northwest of, at junction of road leading to Sisson's residence, on southwest side of road, in root of tree; copper nail marked "t. b. m. 1222.7" 1,222.79 feet.

McKizer's Hotel, 3.1 miles northwest of, in southeast corner of foundation of George Rodwell's residence; bronze tablet stamped "Prim. Trav. Sta. 1208" 1,207.71 feet.

McKizer's Hotel, 3.6 miles northwest of, on northeast side of cement culvert over Cold Brook; chiseled square marked "t. b. m. 1174.2" 1,174.31 feet.

McKizer's Hotel, 4.7 miles northwest of, 500 feet southeast of Ed Cayey residence, on northeast side of road, in root of tree; copper nail marked "t. b. m. 1147.7" 1,147.90 feet.

McKizer's Hotel, 4.9 miles northwest of, 130 feet northwest of corner, in cement culvert on southwest side of road; chiseled square marked "t. b. m. 1092.3" 1,092.48 feet.

McKizer's Hotel, 5.3 miles northwest of, 100 feet southwest of Cold Brook school district 3, in large rock; bronze tablet stamped "1053" 1,053.32 feet.

McKizer's Hotel, 6.4 miles northwest of, in base of cement bridge over Cold Brook; chiseled square marked "t. b. m. 979.6" 979.70 feet.

McKizer's Hotel, 6.9 miles northwest of, on base of cement bridge over Cold Brook; chiseled square marked "t. b. m. 933.1" 933.25 feet.

South Colton, 0.25 mile southeast of bridge over Racquette River at road forks, on cement culvert; chiseled square marked "t. b. m. 948.3" 948.44 feet.

South Colton, on northeast corner of road opposite Catholic Church, in rock; chiseled square, marked "t. b. m. 912.2" 912.33 feet.

South Colton, in foundation wall of Methodist Church, center of south face; bronze tablet stamped "A. D. J. 927 (B. 514, p. 17, elev. +0.35 foot correction)" 927.275 feet.

From Colton west along highways to Sellecks Corners and 1 mile south.

South Colton, 1.2 miles west of, at road corners on south side of road, near small stream, in rock; chiseled square marked "t. b. m. 885.5" 895.89 feet.

South Colton, 2.5 miles west of, at four corners opposite Littlejohn schoolhouse, in bedrock; chiseled square marked "t. b. m. 994.9" 995.32 feet.

South Colton, 3.3 miles west of, 50 feet from road on south side, at three corners, in large boulder; bronze tablet stamped "980 P. B. M." 980.850 feet.

Philips Corners, three corners, on south side of road, in rock; chiseled square marked "t. b. m. 1026.2" 1,026.66 feet.

Philips Corners, 0.7 mile west of, 420 feet south of Philips tenant house, on east side of road, in large boulder; chiseled square marked "t. b. m. 1014.7" 1,015.17 feet.

Plumbs Corners, 1.1 miles west of Philips Corners, 300 feet south of M. W. Davis's house, at southwest corner, in rock; chiseled square marked "t. b. m. 1037.2" 1,037.64 feet.

Feet.
Sellecks Corners, 140 feet east of, in yard of A. Rexford's residence, Feet.
in large rock; bronze tablet stamped "P. B. M. 1014." 1,014.843
Sellecks Corners, 1.1 miles south of, on flat, at top of hill, east side
of road in rock; chiseled square marked "t. b. m. 1,073.0" 1,073.54

STARRUCCA QUADRANGLE.
[Latitude 41° 45'-42°; longitude 75° 15'-75° 30'.]
Precise leveling in 1901 by D. H. Baldwin.

From Cadosia to Hancock.
Hancock, in front of Erie station, northbound track; top of north
rail------------------------------------------------------- 923.7
Hancock, southeast corner of bridge 18, on foundation stone; chis­
eled square ----------------------------------------------- 912.74
Hancock, 0.75 mile north of, southeast corner of large steel bridge
19, top of parapet wall, 6 feet east of rail; bronze tablet stamped
"924 Albany 1900" ---------------------------------------- 924.721

From Hancock south along Erie R. R. to Stockport.
Hancock, in front of station, northbound track; top of rail------- 923.7
Stockport, in front of station, northbound track; top of rail----- 891.9
Stockport, 1.1 miles south of bridge 17, west abutment, south side,
on top of second step; bronze tablet stamped "882 Albany 1900") 882.904

Leveling in 1915 by K. E. Schlachter.
At Cadosia.
Cadosia, New York, Ontario & Western Ry. (Scranton branch)
bridge Bl, in southeast corner of concrete abutment; bronze tab­
let stamped "990" (set by New York, Ontario & Western Ry. in
1912, when bridge was rebuilt; the old tablet described in Bull.
281, p. 20, was destroyed)---------------------------------- 990.147

STONY CREEK QUADRANGLE.
[Latitude 43° 15'-43° 30'; longitude 74°-74° 15'.]
Primary leveling in 1896 by Clark Brown and in 1904 by L. E. Tucker.

From Batchellerville north along road via Mud Lake to West Stony Creek,
thence northeast to Knowelhurst.
West Stony Creek, 4.2 miles south of, at outlet of Mud Lake, 135
feet west of log camp, on north side of road, in boulder; bronze
tablet stamped "1689 Albany Adj 1903" 1,689.369
West Stony Creek, 60 feet southeast from large stone chimney on
south end of hotel, 20 feet southwest of southwest corner of ice
house, in rock; bronze tablet stamped "1552 Albany 1903 Adj" 1,552.773
Knowelhurst, southeast corner of foundation of Methodist Episcopal
Church; bronze tablet stamped "1583 Albany" 1,584.375

From West Stony Creek west via Wilcox Lake to Wells-Hope road.
West Stony Creek, 3.7 miles west of, 20 feet east of south end of
Bakertown flow dam, north side of road, in boulder; aluminum
tablet stamped "1355 Albany 1903 Adj" 1,355.079
From Gilman Lake northeast along highway to Griffin.

Griffin, 30 feet above milldam, 5 feet north of road, 5 feet south of river; copper bolt in rock, stamped "U. S. G. S. B. M. 1280 Ft." 1,275.948 Feet.

SYRACUSE QUADRANGLE.

[Latitude 43°-43° 15'; longitude 76°-76° 15'.]

Primary leveling in 1897 by Clark Brown and in 1902 by J. B. Maguire.

From Syracuse south to East Onondaga.

Syracuse, at Weigh lock, canal collector's office, at right of west entrance door, in water table; bronze tablet stamped "404 S" 404.320
Syracuse, Geddes Street bridge 90, pier at foot of west towpath stairs, at southwest corner of stairway landing; copper plug (State engineer's bench mark 305) 406.230
Syracuse, station of Delaware, Lackawanna & Western R. R.; top of rail 389.3
Syracuse, West Colvin Street bridge over Onondaga Creek, north end of west abutment, northwest corner of top stone; chiseled square 405.54
Syracuse, northeast corner of South Salina Street and Matson Avenue, on stone monument; chiseled cross 418.31
East Onondaga, northwest wing of bridge over Onondaga Creek, in coping; copper bolt stamped "S 422" 422.129

From Oran northwest to Limestone Creek Aqueduct.

Manlius, 1.5 miles northwest of, at High Bridge (double-arch), over Limestone Creek, in coping 5 feet from end of southwest wing; copper bolt stamped "S 507" 507.550
Erie Canal, Limestone Creek Aqueduct, southwest coping parapet on west wing, towpath side; copper bolt (State engineer's bench mark 286) 434.207

At Constantia.

Constantia, road crossing at station; top of rail 394
Constantia, northwest corner of foundation of Presbyterian Church; bronze tablet stamped "389 Albany 1903" 389.508

TABERG QUADRANGLE.

[Latitude 43° 15'-43° 30'; longitude 75° 30'-75° 45'.]

Primary leveling in 1902 by J. B. Maguire.

From Camden southeast along railroad to Rome.

Camden, southwest corner of water table of town hall; aluminum tablet stamped "520 Albany" 519.966
Blossvale, I. J. White's store, opposite station, in southeast corner of foundation; aluminum tablet stamped "420 Albany" 420.230

1 See Bull. 514, pp. 83-84, for other elevations.

From Blossvale northeast along road to West Leyden.

Point Rock, in northwest corner of foundation of post office and general store; bronze tablet stamped “1017 Albany” 1,016.596

Point Rock, about 4 miles north of, West Leyden road, in northwest wall of Jacob Kirk’s house, facing road; bronze tablet stamped “1493 Albany” 1,492.340

THERESA QUADRANGLE.

[Latitude 44°-44° 15’; longitude 75° 45’-76°.]

Precise leveling in 1900 by C. H. Semper.

Near Felts Mills.

Felts Mills, south abutment of Island Bridge over north channel of Black River, on east end of bridge seat; bronze tablet stamped “583 Cape Vincent” 582.456

Black River, in front of station; top of rail 564.5

Primary leveling in 1900 by William Kelley.

From Limerick east via Brownville to Felts Mills.

Brownville, in front of station; top of rail 324.8

Brownville, brick schoolhouse at five corners, midway of front building and 3.2 feet above surface of ground, in limestone foundation wall; bronze tablet stamped “355 Cape Vincent” 354.243

Sanford, in front of station; top of rail 470.3

Felts Mills, bridge over north channel of Black River, on east end of south abutment (Island abutment); bronze tablet stamped “583 Cape Vincent” 582.456

From Felts Mills north to Evans Mills (single-spur line).

Evans Mills, at southeast corner of crossroads, in north face of limestone building of Wesley Rulison (post-office building), 2.3 feet east of northwest corner; bronze tablet stamped “431 Cape Vincent” 430.88

From Lafargeville east to Theresa.

Lafargeville, Orleans Hotel (stone building), in southeast corner; aluminum tablet stamped “381 Cape Vincent” 380.461

Theresa, stone high school on Main Street, in water table in north face and near northwest corner of belfry tower; aluminum tablet stamped “376 Cape Vincent” 375.915

From Perch River northeast to Stone Mill post office (single-spur line).

Stone Mill post office, north side of limestone store and dwelling of John Irwin, about 2.6 feet west of northeast corner; bronze tablet stamped “359 Cape Vincent” 358.293
PEEOISE AND PRIMARY LEVELING. 183

THIRTEENTH LAKE QUADRANGLE.

[Latitude 43° 30'-43° 45'; longitude 74°-74° 15'.]

Primary leveling in 1896 by Clark Brown and A. F. Krause.

From North Creek northwest to North River.

North River, 40 feet west of northwest corner of Thirteenth Creek bridge, 30 feet east of corner of house; copper bolt stamped "U. S. G. S. 1076" 1,072.257

North River, 300 feet west of bridge at; top of copper bolt of Adirondack Survey triangulation station 118, 1882 (said to mark Warren-Essex county line) 1,080.929

From North Creek southwest via Sodom and Bakers Mills to Mountain House.

Bakers Mill Pond, under southwest corner of bridge over North Creek; southwest edge of casting 1,016.86

Bakers Mills, 50 feet north of blacksmith shop and 25 feet west of road, in boulder 6 feet broad and 2 feet above ground; copper bolt stamped "U. S. G. S. B. M. 1585 Ft" 1,581.042

From Griffin to Mountain House.

Oregon, 2.5 miles southwest of, 300 feet northeast of Stuarts Creek and east of Sacandaga River, point 5 feet west of road on outcrop; copper bolt stamped "U. S. G. S. 1377 Ft. B. M" 1,373.140

Oregon, 1,000 feet northeast of the North House (McKlosky's) and 150 feet north of curve to right in road, boulder 5 by 10 feet to right of road; copper bolt stamped "U. S. G. S. B. M. 1435 Ft" 1,431.005

From Mountain House northwest via Thirteenth Lake and Kings flow dam to Indian Lake.

Big Shanty dam, 200 feet southeast from east end of, in boulder 3 feet high and 8 feet broad; copper bolt stamped "U. S. G. S. 1666 Ft. B. M" 1,662.383

Thirteenth Lake House, 75 feet in front of, in low flat outcrop; copper bolt stamped "U. S. G. S. 1874 Ft. B. M" 1,869.761

Kings flow dam, 500 feet northwest of bridge at, 10 feet to right of and 1 foot above road; copper bolt stamped "U. S. G. S. 1724 Ft. B. M" 1,720.016

TROY QUADRANGLE.1

[Latitude 42° 30'-42° 45'; longitude 73° 30'-73° 45'.]

DATA CONCERNING THE GREENBUSH BENCH MARK AND THE ELEVATION OF HUDSON RIVER AT ALBANY.

The Greenbush bench mark, otherwise known as the "Gristmill" bench mark, was established by the Coast and Geodetic Survey in 1857. It is a cross cut in the face of the cellar wall of an old gristmill at Greenbush, opposite Albany, and has been an important reference mark of several Government and State surveys. The elevation of this bench mark is now accepted as 13.863

1 See Bull. 514, pp. 48-50, for other elevations.
feet, as determined by precise leveling of the Coast and Geodetic Survey in 1902 from Dobbs Ferry and not changed by the 1907 or 1912 adjustment of precise leveling. Other elevations that have been determined for this bench mark at various times previously are given in the following table taken from the 1901 Report of the State Engineer:

**Table No. 5.—Elevations of the Greenbrush bench mark.**

<table>
<thead>
<tr>
<th>Date</th>
<th>Authority</th>
<th>Location of reference gage</th>
<th>Elevation (feet)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1877-58</td>
<td>Mr. J. B. Vose, Coast and Geodetic Survey</td>
<td>Governors Island</td>
<td>15.37</td>
</tr>
<tr>
<td>1877</td>
<td>Lieut. J. B. Willard, Corps of Engineers</td>
<td>Governors Island</td>
<td>15.37±0.50</td>
</tr>
<tr>
<td>1877</td>
<td>O. H. Tittman, Coast and Geodetic Survey</td>
<td>Weehawken</td>
<td>14.728</td>
</tr>
<tr>
<td>1889</td>
<td>Deduced from West Shore R. R. levels</td>
<td></td>
<td>16.01</td>
</tr>
<tr>
<td>1894</td>
<td>Coast and Geodetic Survey (mean of two following lines)</td>
<td></td>
<td>13.64</td>
</tr>
<tr>
<td>1893-1895</td>
<td>Coast and Geodetic Survey from Boston</td>
<td></td>
<td>13.07</td>
</tr>
<tr>
<td>1896-1895</td>
<td>Coast and Geodetic Survey from Sandy Hook</td>
<td>Sandy Hook</td>
<td>13.22</td>
</tr>
<tr>
<td>1898-99</td>
<td>Coast and Geodetic Survey Report Appendix 8, p. 414</td>
<td></td>
<td>13.732</td>
</tr>
<tr>
<td>1898-99</td>
<td>Coast and Geodetic Survey Report Appendix 8, p. 548</td>
<td></td>
<td>13.577</td>
</tr>
</tbody>
</table>

The elevation used for this bench mark by the U. S. Lake Survey in determination of the elevations of the Great Lakes, as published in Professional Papers No. 24, Corps of Engineers, United States Army, page 609, 1888, was 14.73 feet, which is also the value used for it by the Coast and Geodetic Survey between 1877 and 1900, by the Deep Waterway Survey in 1898-99, and by the Barge Canal Survey since 1900. The elevations given in the Report of the State Engineer for 1901 as “above mean tide New York,” include this value for the Greenbrush bench mark, therefore at Albany they are subject to a correction of minus 0.867 foot to accord with the 1912 adjustment value.

The elevation of Hudson River at Albany was determined from the lower miter sill of lock 1, which is reported to be a reliable reference mark. The height of mean low water above this point is given in the Report of the State Engineer for 1888, page 97, as 7.443 feet. The elevations in that report, as in the report for 1877, are based upon mean low water. The elevation of canal bench mark 4a, on lock 1, above the lower miter sill, was determined in 1901 as 23.855 feet (see elevations of these points, pages 657 and 709, Report of the State Engineer and Surveyor, 1901) and the accepted elevation of bench mark 4a, determined by precise leveling of the Lake Survey in 1902, as adjusted by the Coast and Geodetic Survey in 1903, is 16.824 feet. Mean half-tide range at Albany from Tide Tables, published by the Coast and Geodetic Survey, is 1.2 feet. Mean half-tide level at Albany is therefore 16.824−23.855+7.443+1.2=1.612 feet above mean sea level.

**TULLY QUADRANGLE.**

[Latitude 42° 45'-43°; longitude 76°-76° 15'.]

**Primary leveling in 1897 by Clark Brown.**

From East Onondaga south up Onondaga Valley to Tully.

- Onondaga Castle, 30 feet north of hotel, 30 feet east of road, on well curb; chiseled square. 519.38
- Onondaga Indian Village, 0.25 mile south of road leading to South Onondaga, 900 feet south of cemetery and 40 feet south of small brook, in boulder 3 feet from west road fence; copper bolt stamped “S 469” 468.705
Precise and Primary Leveling. 185

Solway water tank, west side of road, opposite tank; chiseled square on north side of rim of valve casing. 567.57 Feet.
Cardiff, 0.12 mile east of road, back of hotel, 75 feet south of brook, boulder 6 feet broad and 2 feet high; copper bolt stamped “S 676” 676.192
Tully Center, 1.5 miles north of, 700 feet north of road west to Vesper, 500 feet south of curve in road, on boulder in southwest corner of barnyard, west side of road; copper bolt stamped “S 819” 819.617
Tully, 200 feet north of Hotel Slayton, in water table of brick house on west side of road, at southeast corner of front of house; bronze tablet stamped “1251 S” 1,251.670

From Tully north to Jamesville, thence west to East Onondaga.

Apulia station, 1 mile north of, on road to Syracuse, 500 feet north of white house on west side of road, 125 feet north of road summit; copper bolt in boulder, stamped “1292 S” 1,292.510
Onativia (0.8 mile east of Lafayette), engine water column at railway station; top of anchor bolt in northwest corner of base plate 992.25
Jamesville, 0.75 mile south of, at east end of reservoir dam, in coping; cross mark on bronze tablet stamped “S 645” 645.493

Tupper Lake Quadrangle.

[Latitude 44°-44° 15'; longitude 74° 30'-74° 45'.] 1899

Primary leveling in 1899 by W. W. Gilbert and C. B. Bailey.

From Nehasane northeast along railroad to Long Lake West.

Bog Lake, 1.25 miles north of, 35 rail lengths north of milepost 81 miles from Malone, 35 feet west of track, in east face of large boulder; stamped “1764 Albany” 1,762.673
Long Lake West, 215 feet north of People's Hotel, 30 feet east of track, in west face of outcrop of rock; aluminum tablet stamped “1789 Albany” 1,787.787

From Long Lake West northeast along New York Central & Hudson River R. R. to Tupper Lake.

Horseshoe station, 50 feet north of, 50 feet west of track, in east face of large boulder 1 foot above ground; aluminum tablet stamped “1739 A” 1,738.177
Childwood, 40 rail lengths south of station on left of track, in face of rock cut; aluminum tablet stamped “Albany 1713” 1,713.164

From Long Lake West southeast via Little Tupper Lake to Long Lake.

Long Lake West, 4 miles east of, opposite 15-mile post, 10 feet from road, in southeast face of large boulder; aluminum tablet stamped “1839 Albany” 1,838.171
Little Tupper Lake, head of, at Loomis's camp, 150 feet southeast of camp, 25 feet from barn, north face of large boulder; aluminum tablet stamped “1760 Albany” 1,758.446
Little Tupper Lake, 0.12 mile east of, 115 feet west of 10-mile post, 8 feet north of road, 25 feet west of blacksmith shop at Moynehan's lumber camp, west face of large boulder; aluminum tablet stamped “1739 Albany” 1,738.170
UNADILLA QUADRANGLE.

[Latitude 42° 15' - 42° 30'; longitude 75° 15' - 75° 30'.]

Precise leveling in 1898 by E. L. McNair.

From Bainbridge east along Delaware & Hudson R. R. to Unadilla.

Bainbridge, 2 miles south of, northeast corner of small cattle-pass opening, in foundation stone; bronze tablet stamped "978 A". 977.676
Bainbridge, in front of station; top of north rail. 1,006.2
Bainbridge, 2.75 miles east of, southwest corner of bridge 84, in coping stone of abutment; bronze tablet stamped "989 A". 989.674
Sidney, 0.25 mile west of Delaware & Hudson station, at crossing of Delaware & Hudson and New York, Ontario & Western railroads;
top of rail. 990.9
Sidney, in front of Delaware & Hudson station; top of south rail. 993.1
Unadilla, in front of Delaware & Hudson station; top of south rail. 1,023.0
Unadilla, Union School building, foundation wall at left of main entrance; aluminum tablet stamped "1024 A". 1,023.325

Precise leveling in 1901 by D. H. Baldwin.

From Holmesville south along New York, Ontario & Western Ry. to Sidney, thence east to Maywood (Sidney Center).

Holmesville, 1.77 miles south of, southeast abutment of wooden railroad bridge; chiseled square. 1,054.54
White's Store, in front of station; top of east rail. 1,072.8
Lathams Corners, at north crossing; top of east rail. 1,049.9
Rockwells Mills, at crossing near station, main track; top of east rail. 1,055.4
Mount Upton, Methodist Church, north side of front (east) entrance, in third course of foundation stone above ground; aluminum tablet stamped "1035 Albany 1901". 1,035.710
Mount Upton, in front of station; top of east rail. 1,047.2
Mount Upton, 2.38 miles south of, northwest corner of large iron highway bridge over Unadilla River, 150 feet east of track, on coping; chiseled square. 1,017.07
Rockdale, in front of station; top of east rail. 1,020.18
New Berlin Junction, at highway crossing, on New York, Ontario & Western Ry., top of east rail, main line. 1,084.4
Sidney at junction, grade crossing of Delaware & Hudson and New York, Ontario & Western railways, top of rail. 990.9
South Unadilla, in front of station; top of east rail. 1,159.3
Youngs, in front of station; top of north rail. 1,238.3
Maywood, in front of station, top of east rail. 1,386.5
Maywood (Sidney Center), trestle 216, under north side of third trestle tower from east end, in top of old pier, aluminum tablet stamped "1344 Albany 1901". 1,344.405

Primary leveling in 1900 by W. E. Green.

From Sidney northwest along New York, Ontario & Western Ry. to Guilford.

New Berlin Junction, north side of station at railroad crossing; top of east rail. 1,084.4
Parker, at road crossing near station; top of rail. 1,423.0
From Mount Upton northeast along highway to Maple Grove.

Mount Upton, Methodist Church, in north side of front entrance, in third course of foundation stone above ground; aluminum tablet stamped "N. Y. 1035" (Bull. 281, p. 19)____________________ 1,035.710

Mount Upton, 1 mile southeast of, at road fork, in east side of concrete culvert; chiseled circle painted "t. b. m. 1058.9"____________________ 1,058.93

Mount Upton, 2 miles northeast of, in west side of concrete culvert, 300 feet north of milestone; chiseled circle painted "t. b. m. 1036.3"__________ 1,036.27

Gilbertsville, 2 miles south of, in west side of concrete culvert, 50 feet south of milestone; bronze tablet stamped "N. Y. 1091"_________ 1,091.260

Gilbertsville, 1 mile south of, 75 feet north of milestone, in west side of concrete culvert; chiseled circle painted "t. b. m. 1122.9"________ 1,122.83

Gilbertsville, in face of east wall of bridge over Millard's Brook, at park, near Major's Inn; bronze tablet stamped "N. Y. 1108"____ 1,107.708

Gilbertsville, 1.25 miles east of, on crossroad, in southeast abutment of bridge over Cahoon Brook; chiseled circle painted "t. b. m. 1088.7" ______________________________ 1,088.68

Maple Grove, 2 miles west of, at road fork, in boulder 3 feet inside of wall, in triangle 200 feet east of corner; bronze tablet stamped "N. Y. 1283"__________________________ 1,282.506

Gilbertsville, 3.9 miles east of, at road corner north, in north side of stone culvert; chiseled circle painted "t. b. m. 1359.8"__________ 1,359.72

Maple Grove, 0.9 mile south of, 150 feet west of three corners, on north side of road; bronze tablet stamped "1470" (set 1914)____ 1,469.602

Leveling in 1914 by F. L. Shalibo.

Near Wells Bridge.

Wells Bridge, 1.1 miles north of, in front of O. Morgan's residence, in fence corner, in stone; chiseled square marked "U. S. T. B. M. 1200"_________________________________ 1,200.20

Wells Bridge, 2.1 miles north of, in front of Briar Creek Creamery, in cement culvert; chiseled square marked "U. S. G. S. T. B. M. 1183"_________________________________ 1,183.30

Wells Bridge, 2.9 miles north of, 0.50 mile north of four corners at top of hill, in stone on west side of road; chiseled square marked "U. S. T. B. M. 1373"___________________________ 1,373.08

Wells Bridge, 4 miles north of, 200 feet north of J. B. Wickham's residence, on west side of road, in stone; chiseled square marked "U. S. T. B. M. 1325"______________________________ 1,325.45

Hughston Corners, in front of Hughston residence, on west side of road, in rock; bronze tablet stamped "1379"____________________________ 1,378.925
UTICA QUADRANGLE.¹

Precise leveling in 1901 by D. H. Baldwin, based on Deep Waterways and State Engineer's bench marks.

In Utica.

Utica, Deep Waterways bench mark, about 50 feet north of north bank of Mohawk River and about 830 feet northeast from northeast corner of railroad bridge over Mohawk River, Black River branch of the New York Central & Hudson River R. R.; copper nail in root of elm tree. Feet. 405.083

Utica, post office, west side of eastern of two rear entrances in basement area on building wall; bronze tablet stamped "419 feet." 417.207

Utica, Seneca Street bridge, southeast corner of lower step, west wing towpath (north) abutment; chiseled square. 430.14

Utica, Whitesboro Street bridge, old bench mark in new position on top of southeast corner of stone platform at base of east stairs, towpath abutment, about 3 feet above towpath; chiseled circle stamped "B. M." on south face. 431.56

Utica, Whitesboro Street bridge (State engineer's b. m. 222), southwest corner of stone platform base of west stairs, towpath abutment, 3 feet above towpath; copper bolt. 431.637

Utica, lock 46 (State engineer's b. m. 223), northeast hollow quoin, towpath lock, between anchors; copper bolt. 430.410

Primary leveling in 1896 by A. B. Pomme.

Utica, Turner Street, Herkimer-Oneida county line, on fence line between the New York Central & Hudson River R. R. and trolley tracks; bronze meridian tablet. 466.329

Utica, Albany Street, Starch Factory Creek, stone-arch bridge, north abutment, west wing; northeast corner of top step. 522.90

Utica, the Delaware, Lackawanna & Western and Rome, Watertown & Ogdensburg railroads; northwest corner of foundation of northwest pier (New York Central & Hudson River R. R. bench mark). 408.70

From Stewarts Corners via Moyer Creek to Frankfort.

Rushmer road, first barn east of Stewarts Corners, between third and fourth telegraph poles Nos. 9588 and 9587 east of barn, on boulder half in road and half in field; copper bolt stamped "U. S. G. S. 1380 feet B. M." 1,378.477

Lock 45, canal engineer bench mark 204, at coping at end of northeast gate; towpath lock, stamped "⊕" 427.326

From Sauquoit east along highway to Norwich Corners.

Norwich Corners, south face near east end of residence of H. A. Smith, in foundation wall; aluminum tablet stamped "1318 Adj 1903" 1,318.155

¹ See Bull. 514, pp. 74-76, for additional elevations.
From Utica north via Trenton plank road to South Trenton.

Deerfield, J. A. Auert’s brick building, middle door; north corner of stone doorsill .......................................................... 427.68
Salem, Welsh Church, Trenton plank road, 600 feet west from plank road, on foundation stone at southeast corner; chisel mark ........ 815.70
Ninemile Creek bridge, Trenton plank road, on west bridge seat, north abutment; chiseled square .................................... 755.82
South Trenton, north side of road opposite west gate of cemetery, on boulder; copper bolt stamped “U. S. G. S. B. M. 806 Ft.” ........ 803.938

From South Trenton east via North Gage to Poland, thence southeast to Newport.

North Gage Church, on southeast corner of stone step; chiseled square .......................................................... 986.00
Poland, Main Street, center of stone arch over Cold Brook, on west coping; chiseled square .............................................. 720.38
Poland, first iron bridge over Cold Brook northeast of village, in foundation stone, east abutment, north wing; copper bolt stamped “U. S. G. S. B. M. 800 Ft.” ........................................ 708.841
Poland, 0.5 mile south of, north wing of iron highway bridge over West Canada Creek, on east abutment bridge seat; chiseled square 690.86
Newport, northeast corner of Newport Bank building; water table .......................................................... 657.59
Newport, stone bridge over West Canada Creek, in north coping over center pier, 6 inches south of square chisel mark and flush with coping; copper bolt stamped “U. S. G. S. 658 Ft. B. M.” (reported destroyed, 1910) .................................................. 656.450
Ilion, Steel Creek Aqueduct, Erie Canal, in center of third coping stone from west end, parapet wall, towpath side; copper bolt stamped “U. S. G. S. B. M. 410 Ft.” (0.027 foot higher than State engineer’s b. m. 197) .................................................. 408.574

From Frankfort to point 5.6 miles north of Frankfort in town of Schuyler.

West Shore R. R. crossing; top of south rail .................................................. 400.4
Frankfort station, Mohawk River bridge, near north abutment, east wing, on bridge seat; chiseled square .................................. 398.57
Frankfort, near station, New York Central R. R. crossing; top of south rail .................................................. 400.00
Frankfort, 5.6 miles north of, at southwest corner of road crossing; iron post stamped “U. S. G. S. B. M. 580 Ft.” .................. 577.703

WADDSINGTON QUADRANGLE.1

[Latitude 44° 45’–45°; longitude 75°–75° 15’.]

Primary leveling in 1904 by G. M. Dimmick.

From Chipman southeast to Madrid.

Chipman, in foundation wall of Scotch Presbyterian Church, center of north face; bronze tablet stamped “355 Albany 1903 ADJ” ........... 354.953

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1 See Bull. 516, p. 60, for other elevations.
MADRID NORTHEAST TO RAYMONDSVILLE.

Madrid, 3.95 miles north of, in foundation wall of residence of N. J. Abernathy, center of east face; bronze tablet stamped “349 Albany 1903 Adj” 348.942

Chases Mill (8 miles north of Madrid), in foundation wall of Hotel Creighton, center of south face; bronze tablet stamped “272 Albany 1903 Adj” 271.453

WALTON QUADRANGLE.

[Latitude 42°-42° 15'; longitude 75°-75° 15'.]

Precise leveling in 1901 by D. H. Baldwin.

From Walton south along New York, Ontario & Western By. to Rock Rift.

Northfield, 5.95 miles southeast of, southeast corner of bridge, on foundation stone; chiseled square 1,312.68

Walton, in front of station; top of rail 1,233.4

Walton, southwest corner of North and Gardiner streets, northeast corner of Ogden Free Library, east face of corner of water table; aluminum tablet stamped “1215 Albany 1901” 1,216.051

Pine, switch crossing; top of southeast rail 1,201.1

Beerston, at crossing, main track; top of south rail 1,181.3

Rock Rift, 0.5 mile north of, 150 feet south of crossing, on east side of track, 4 feet above rail, on face of ledge; aluminum tablet stamped “1214 Albany 1901” 1,214.760

Rock Rift, in front of station; top of east rail 1,226.8

Leveling in 1915 by K. E. Schlacht.

From Hamden west along New York, Ontario & Western By. to Walton.

Hawleys station; top of west rail with painted arrow, painted “t. b. m. 1,259.9” 1,259.95

Hawleys station, 0.5 mile southwest of, on ledge in east margin of track; chiseled circle painted “t. b. m. 1,260.9” 1,260.94

Hawleys station, 1.6 miles southwest of, in west side of concrete culvert 11; bronze tablet stamped “N. Y. 1251” 1,250.928

Hawleys station, 3.2 miles southwest of, 525 feet south of mile post “N. Y. 184” on east side of stone culvert; chiseled circle painted “t. b. m. 1,235.0” 1,235.06

Colchester station, 0.25 mile northeast of, in ledge, west side of track; bronze tablet stamped “N. Y. 1254” 1,253.855

Colchester, in front of station; top of rail 1,265.3

Walton, 1.5 miles north of, in south side of track, on stone culvert; chiseled square painted “t. b. m. 1,248.1” 1,248.13

Walton, in southwest corner of North and Gardiner streets, in northeast corner of Ogden Free Library, east face of water table; aluminum tablet stamped “N. Y. 1215” (Bull. 281, p. 20) 1,216.051

From East Branch along Delaware & Northern R. R. to Downsville.

East Branch, in northeast corner of concrete foundation of railroad water tank; bronze tablet stamped “N. Y. 1,007” 1,007.124
East Branch, 1 mile north of, along Delaware & Northern R. R., in ledge, in northeast corner of intersection with highway; chiseled circle painted “t. b. m. 1,032.0”----------------------------- 1,032.24

Harvard station, 0.4 mile south of, in ledge, in east margin of track; chiseled circle painted “t. b. m. 1,057.3”----------------------------- 1,057.51

Harvard, in front of station; top of rail----------------------------- 1,066.1

Harvard station, 160 feet east of, in ledge, south margin of track; bronze tablet stamped “N. Y. 1067”----------------------------- 1,066.752

Harvard, 1.2 miles northeast of, in concrete culvert, south side of track, 110 feet south of farm road crossing; chiseled circle painted “t. b. m. 1,099.7”----------------------------- 1,099.95

Harvard station, 2.2 miles northeast of, on ledge in south margin of track; chiseled square painted “t. b. m. 1,104.6”----------------------------- 1,104.85

Long Flat station, 110 feet east of, in south end of east abutment of railroad bridge 31; bronze tablet stamped “N. Y. 1102”----------------------------- 1,102.685

Shinhopple, 0.9 mile southwest of, in ledge on east margin of track, at farm road crossing; chiseled square painted “t. b. m. 1,095.0”----------------------------- 1,095.23

Shinhopple, in front of station; top of rail----------------------------- 1,096.5

Shinhopple station, 1 mile northeast of, 360 feet west of concrete culvert in boulder, south margin of track; bronze tablet stamped “N. Y. 1088”----------------------------- 1,088.116

Gregorytown, in front of station; top of rail----------------------------- 1,092.3

Corbett station, 0.8 mile southwest of, on boulder in east margin of track; chiseled square painted “t. b. m. 1094.5”----------------------------- 1,094.75

Corbett station, 450 feet northeast of, in southwest abutment of railroad bridge 26; bronze tablet stamped “N. Y. 1105”----------------------------- 1,104.986

Colchester station, on northwest abutment of Delaware & Northern R. R. bridge 24; chiseled circle painted “t. b. m. 1,066.1”----------------------------- 1,066.29

**WATERTOWN QUADRANGLE.**

[Latitude 43° 45’-44°; longitude 75° 45’-76°.]

Precise leveling in 1900 by C. H. Semper.

Near Watertown.

Watertown, 2 miles west of, 100 feet north of railroad and 600 feet south of paper mill, stone culvert under railroad, top of masonry, north end; chiseled square----------------------------- 381.77

Primary leveling in 1900 by William Kelley.

From Brownville southeast to Watertown (single-spur line).

Watertown, Arsenal Street, State armory, front face, west end; aluminum tablet stamped “479 Cape Vincent”----------------------------- 478.087

**WATKINS QUADRANGLE.**

[Latitude 42° 15’-42° 30’; longitude 76° 45’-77°.]

Primary leveling in 1898 by W. W. Gilbert.

From Millport to Burdett.

Millport, highway bridge over Catherine Creek at Millport House, in face of abutment at southwest corner; bronze tablet stamped “709 D”----------------------------- 710.627

Millport, at north line of station; top of rail----------------------------- 750.5
Montour Falls, 1.37 miles south of, south abutment of Northern Central Ry. bridge over highway, on top stone; chisel mark

Montour Falls, opposite north line of station; top of rail

Montour Falls, old Schuyler County courthouse, on foundation (base) of east pillar, front of courthouse; chisel mark

Watkins, 0.5 mile south of station, on southeast corner of north abutment of Northern Central Ry. bridge over Glen Creek; chisel mark.

Watkins, Schuyler County courthouse, in foundation at front, second course of stone from top, 3 feet south of northwest corner; bronze tablet stamped "476 D"

Burdett, at south line of station, Lehigh Valley R. R.; top of rail

From Burdett southeast along the Lehigh Valley R. R. to Odessa, thence southwest to Millport.

Burdett, 600 feet south of station; in north end of coping, west end of culvert under Lehigh Valley R. R.; copper bolt stamped "1002 D"

Burdett station, north end of coping, west end of culvert under Lehigh Valley R. R.; iron bolt (Lehigh Valley bench mark 309)

Burdett station, 1.37 miles south of, in top course of west end of south abutment of railroad bridge over intersection of highways; iron bolt (Lehigh Valley bench mark 307)

Burdett station, 3 miles south of, 150 feet north of milepost 307, in top stone of east end of small culvert under railroad; iron bolt (Lehigh Valley bench mark 306)

Burdett station, 4.12 miles south of, in face of west abutment of highway bridge over railroad, near north end of abutment, 0.12 mile south of milepost 306; iron pin (Lehigh Valley bench mark 305)

Odessa, 2 miles north of, in top stone at east end of culvert under railroad, 450 feet south of milepost 305; iron bolt (Lehigh Valley bench mark 304)

Odessa, 1.12 miles north of, in top stone at east end of culvert under railroad, 250 feet north of milepost 304; iron pin (Lehigh Valley bench mark 303)

Odessa, 0.12 mile north of, in coping of west end of south abutment of railroad bridge over highway; iron bolt (Lehigh Valley bench mark 302)

Odessa, at south end of station; top of east rail, west track

Odessa, 550 feet south of station, on west end of culvert under Lehigh Valley R. R., in face of coping near north end; bronze tablet stamped "1053 D"

From Watkins west via Watkins station of the Fall Brook division New York Central R. R. to Townsend, thence south to Beaverdams, thence east to Millport.

Watkins, 0.5 mile north of post office, Steuben Street, on northwest corner of south abutment of bridge over stream; chiseled cross

Watkins, opposite south line of station; top of rail

Watkins Glen station, at south line of; top of rail

Watkins Glen station, railroad bridge over Glen Creek, on southeast corner of north abutment; chisel mark

Townsend, 2 miles south of, house of W. T. Beebe on east side of Beaverdams road, on northeast corner of top step of a flight of stone steps leading from the house to the road; chisel mark
Beaverdams, 0.75 mile south of, on abutment at northwest corner of iron highway bridge over small stream; chisel mark

1,234.32

Beaverdams, in foundation of house of David Beardsley, center of front, second course from top; aluminum tablet stamped "1262 D"

1,263.179

Kendalls, 1 mile northeast of, abutment at north corner of iron highway bridge over East Creek; chisel mark

1,260.93

Millport, 2.5 miles west of, schoolhouse 9, Catlin Township, at southwest corner of building, on footing course of foundation; chisel mark

1,050.75

From Watkins station north along highway to Reading Center.

Reading Center, in foundation south side of Baptist Church, 4.5 feet from southeast corner, fourth course from top; bronze tablet stamped "1253 D"

1,253.894

From Burdett north along the Lehigh Valley R. R. to Hector.

Burdett station, 2.75 miles north of, east side of water tank, north pier west of track; iron bolt (Lehigh Valley bench mark 312)

963.81

Burdett station, 4 miles north of, in west end of south abutment of Lehigh Valley R. R. bridge over small stream, 100 feet north of milepost 314, back of house of J. B. Erway; copper bolt stamped "939 D"

940.461

Burdett station, 4 miles north of, in west end of south abutment of bridge over small stream; iron bolt (Lehigh Valley bench mark 313)

940.582

WAVERLY QUADRANGLE.

[Latitude 42°-42° 15'; longitude 76° 30'-76° 45'.]

Precise leveling in 1898 by E. L. McNair.

From Wellsburg east along Erie R. R. to Waverly.

Wellsburg, 1,800 feet west of station, at southeast corner of bridge 55, in coping stone of abutment; aluminum tablet stamped "824 A" (probably destroyed, 1917)

823.204

Wellsburg, in front of station, east-bound track; top of south rail

825.2

Chemung, 1 mile west of station, at northeast corner of bridge 53 across Chemung River, in coping stone of abutment; aluminum tablet stamped "804 A"

803.077

Chemung, in front of Erie Station, westbound track; top of north rail

811.3

Waverly, in front of Erie Station, westbound track; top of north rail

829.9

Waverly, city hall building on Broad Street, stone column between doorways; aluminum tablet stamped "840 A"

839.336

Primary leveling in 1898 by W. W. Gilbert.

From Wellsburg north along highway to Breesport, thence east along Lehigh Valley R. R. to Erin, thence north to Park, thence southeast to Van Etten, thence south to Waverly.

Breesport, county buildings, on west face of foundation of brick structure, 3 feet above ground and 25 feet south of northwest corner, between second and third cellar windows; aluminum tablet stamped "A1160"

1,100.580

104787°—Bull. 671—18—13
Erin station, Lehigh Valley R. R.; chiseled mark on top of foundation, 6 feet south of northeast corner

Erin station, in front of east line of; top of rail

Park station, south side of water tank; iron pin in foundation

Park station, at highway crossing; top of rail

Park station, 1 mile east of, on Lehigh Valley R. R.; iron pin in top at center of east abutment of trestle (Lehigh Valley R. R. bench mark 18)

Swartwood, east corner of water tank; iron pin in foundation (Lehigh Valley R. R. bench mark 21)

Swartwood, in front of station, opposite north line; top of rail

Swartwood, front of residence of Benjamin Barnes, center of foundation, north wing; aluminum tablet stamped “A 1054”

Van Etten, Warner Street crossing of Lehigh Valley R. R., Elmira & Cortland branch; top of rail

Van Etten, southeast corner of Waverly and Warner streets; water table at northwest corner of new brick building

Van Etten Junction, crossing of Elmira & Cortland branch of Lehigh Valley R. R.; top of rail

Van Etten Junction, 0.87 mile south of, southeast abutment of iron highway bridge over Cayuta Creek, 200 feet west of Lehigh Valley R. R.; iron pin (Lehigh Valley R. R. bench mark)

Reniff, southeast corner of highway bridge over Cayuta Creek; chisel mark on shoe

WAYLAND QUADRANGLE.

[Latitude 42° 30'-42° 45'; longitude 77° 30'-77° 45'.]

Primary leveling in 1901 by C. H. Semper.

From South Livonia along Erie R. R. to Wayland, thence east to Atlanta.

Webster Crossing, 900 feet north of station, road crossing; top of rail

Webster Crossing, Hill & Webster's general store, north face near northeast corner; bronze tablet stamped “1368 Rochester 1901”

From point 2 miles east of Hemlock south along highway to Springwater.

Canadice, northwest corner of church sheds, at margin of roads, on large rock foundation; aluminum tablet stamped “1569 Rochester 1901”

Tabor Corners, in west face of schoolhouse, aluminum tablet stamped “1863 Rochester 1901”

Springwater, schoolhouse on road to station, in front face at northeast corner; aluminum tablet stamped “970 Rochester 1901”

From Wayland west along Delaware, Lackawanna & Western R. R. to Grove-

land.

Wayland, in sidewalk in front of Lackawanna schoolhouse; aluminum tablet stamped “1372 Rochester 1901”
PRECISE AND PRIMARY LEVELING.

Wayland, road crossing near Delaware, Lackawanna & Western station; top of rail........................................... 1,360.5
Dansville, in front of station; top of rail........................................ 1,025.1
Dansville, station of Delaware, Lackawanna & Western R. R., southeast corner of foundation; aluminum tablet stamped "1024 Rochester 1801" ........................................ 1,022.980

WEEDSPORT QUADRANGLE.

[Latitude 43°-43° 15'; longitude 76° 30'-76° 45'.]

Primary leveling in 1898 by D. E. Baxter.

From Sterling station south along the Lehigh Valley R. R. to Cato, thence southwest along highway to Conquest, thence south to Port Byron.

Ira, highway crossing 200 feet north of station; top of east rail, main track........................................ 419.7
Ira station, about 700 feet southwest of station, in northeast corner of water table of brick house; bronze tablet stamped "430 Oswgo". ........................................ 431.585
Cato, highway crossing 200 feet north of station; top of east rail, main track........................................ 419.0
Cato, northwest corner of Main and North streets, southeast corner of water table of brick building; aluminum tablet stamped "461 Oswgo". ........................................ 462.811
Conquest, 0.6 mile south of, east side of road, in south side front of brick house, in water table; bronze tablet stamped "449 A"........................................ 450.454
Port Byron, West Shore R. R.; top of north rail........................................ 396.8
Port Byron, Canal Street highway bridge over Erie Canal, east wing of towpath abutment; copper bolt........................................ 406.63
Port Byron, highway bridge just east of Canal Street, east wing of towpath abutment; copper bolt........................................ 407.54
Port Byron, lock 52, fourth step from west end of north side lock pier; copper bolt (N. Y. 352)........................................ 403.279
Port Byron, lock 52, east hollow quoin south side of lock; head bolt stamped "404 A"........................................ 406.005

From Montezuma and Weedsport, set from State engineer's bench mark.

Montezuma, in northeast corner of Methodist Church, Auburn Street, in foundation masonry; bronze tablet stamped "417 Oswgo"........................................ 417.449
Weedsport, Methodist Episcopal Church, on south side of Brutus Street, in front face of east end of foundation wall; bronze tablet stamped "433 Oswgo"........................................ 433.256

WELLSVILLE QUADRANGLE.

[Latitude 42°-42° 15'; longitude 77° 45'-78°.]

Precise leveling in 1898 by E. L. McNair.

From Scio east along Erie R. R. to Tip Top summit.

Scio, in front of Erie station; top of south rail........................................ 1,454.2
Wellsville, at east end of Erie station; top of north rail........................................ 1,519.6
Wellsville, Union School building, in footstone of arch over northeast corner entrance; aluminum tablet stamped "1516 D." (reset)........................................ 1,517.514

1 See Bull. 514, pp. 88-90, for other elevations.

Andover, 3 miles west of, stone steps of iron-girder railroad bridge; bronze tablet stamped “1573 D” 1,574.208

Andover, in front of Erie station, main track; top of south rail 1,650.2

Andover, 2 miles north of, stone foundation at southeast corner of small railway bridge; bronze tablet stamped “1675 D” 1,676.105

Tip Top summit, opposite water tank; top of south rail 1,773.2

WEST CANADA LAKES QUADRANGLE.

[Latitude 43° 30’–43° 45’; longitude 74° 30’–74° 45’.] Primary leveling in 1898 by C. H. Semper and M. S. McDermid.

From Honnedaga northeast via West Canada Lakes and Cedar Lakes to Little Moose Lakes.

Honnedaga, 7.8 miles east of, 250 feet east of ford of West Canada Creek, near head of Second Stillwater, in boulder; aluminum tablet stamped “2168 A” 2,168.067

Mud Lake dam, 125 feet north of sluice of, 100 feet north of Indian hut, in large white boulder; aluminum tablet stamped “2356 A” 2,355.722

Buck, 400 feet east of Cedar Lake, on trail to Speculator, northwest corner of camp; copper bolt stamped “U. S. G. S. B. M. 2472 Ft. A” 2,472.429

From Little Moose Lake west to Fawn Lake.

Little Moose Lake, 200 feet from, in rear of log house, in large rock; copper bolt stamped “2143 A” 2,144.184

Little Moose Lake, 4.5 miles west of, on road to Kenwells, 0.3 mile west of Silver Run, at summit of hill, in large rock 5 feet south of road; aluminum tablet stamped “2049 A” 2,049.583

Kenwells, 3,150 feet northeast of, north side of road to Fourth Lake and Wakely dam, in large rock; aluminum tablet stamped “1854 A” 1,855.475

From Third Stillwater, West Canada Creek, southeast to Spruce Lake.

Spruce Lake, east side of, at Clark’s camp, in large boulder; copper bolt stamped “2382 A” 2,382.139

WESTFIELD QUADRANGLE.

[Latitude 42° 15’–42° 30’; longitude 79° 30’–79° 45’.] Primary leveling in 1898 by E. L. Faison.

From Mayfield north to Prospect, thence west to Westfield, thence northeast to West Portland.

Prospect, foundation of Western New York & Pennsylvania Ry. station, in northeast corner; bronze tablet stamped “1213 D” 1,214.183

Westfield, in northwest corner of masonry foundation of public-school building, 2.5 feet above ground; bronze tablet stamped “748 D” 748.900

From Mayville west to Volusia.

Volusia, foundation of Methodist Church, in front of south side; bronze tablet stamped “1557 Dunkirk 1902” 1,556.785
PRECISE AND PRIMARY LEVELING.

WHITE LAKE QUADRANGLE.

[Latitude 41° 30'-41° 45'; longitude 74° 45'-75°.]

Primary leveling in 1904 by G. M. Dimmick.

From Forestburg south to Mongaup.

Forestburg, in foundation wall of Catholic Church, south end of east face; bronze tablet stamped “1241 Albany 1903 Adj”  

WILMURT QUADRANGLE.

[Latitude 43° 15'-43° 30'; longitude 74° 45'-75°.]

Primary leveling in 1897 by E. L. McNair and in 1898 by M. S. McDiarmid.

From Hubbard Hotel south to Ohio.

Wilmurt, 3 miles west of, 0.18 mile east of Hubbard Hotel, 60 feet south of road, 25 feet east of fence, in meadow; chiseled point on painted boulder marked “E" (State bench mark)  

Ohio, 750 feet west of corner near church, 1,200 feet east of schoolhouse and 80 feet north of road, in field belonging to G. Johnson; copper bolt stamped “1374 R”  

From near Wilmurt northeast via Nobleboro to Honnedaga Lake.

Wilmurt, 0.7 mile west of, 165 feet east of Henry Paull’s hotel, in pasture, 70 feet south of center of road; bronze tablet stamped “1402 Ft. R”  

Nobleboro, 225 feet east of hotel, 4 feet from fence on north side of road, on small boulder; chiseled square  

WINFIELD QUADRANGLE.

[Latitude 42° 45'-43°; longitude 75°-75° 15'.]

Precise leveling in 1901 by D. H. Baldwin.

From Clayville south along Delaware, Lackawanna & Western R. R. to Richfield Junction.

Clayville, in front of station; top of east rail  

Richfield Junction, in front of new station; top of east rail, main track  

Jerseyfield Lake, 200 feet west of outlet, 300 feet south of lake, in yard of Mrs. Williams’s tenant house, on large boulder; tablet stamped “1941 A”  

Morehouseville, 940 feet east of road south from post office, 425 feet east of schoolhouse, 15 feet south of center of road to Piseco Lake, in flat ledge; copper bolt stamped “1909 Ft. B. M.” (reset 1912)  

From Nobleboro to Morehouseville.

[The error distributed in this line is excessive.]
Richfield Junction, 0.36 mile south of, on south end of foundation wall of wooden trestle bent under overhead highway bridge, west side of track, aluminum tablet stamped "1221 Albany 1901" | 1,221.512

Richfield Junction, 1.15 miles south of, about 250 feet north of red tool house, summit of railroad; top of east rail | 1,271.6

**Primary leveling in 1909 by G. M. Dimmick.**

From Bridgewater east along the Delaware, Lackawanna & Western R. R. to Richfield Springs.

West Winfield, 134 feet east of station and on line with south end of same and 19 feet north measured at right angles from center line of present main track, in east concrete monument, 6 inches in diameter in center of park at station; bronze tablet stamped "Albany 1903 Adj" | 1,182.308

East Winfield, 880 feet east of station; top of railroad milepost 298 | 1,214.16

Cedarville, in foundation wall of station, east end, north face; bronze tablet stamped "1292 Albany 1903 Adj" | 1,291.955

Millers Mills, in foundation wall of station, north end, east face; bronze tablet stamped "1410 Albany 1903 Adj" | 1,409.826

Millers Mills, 2.64 miles east of; top of milepost 304 | 1,472.14

South Columbia, in foundation wall of Methodist Church; bronze tablet stamped "1476 Albany 1903" | 1,476.007

South Columbia, 2.02 miles east of, top of railroad iron milepost 808 | 1,343.49

From Norwich Corners southeast to Millers Mills.

Jerusalem Hill, in foundation wall of Jerusalem Church, 24 inches above ground; bronze tablet stamped "1532 Adj 1903" | 1,531.843

From Millers Mills northeast along highway via Columbia Center to Mohawk.

Columbia Center, 4.16 miles east of Cedarville, in foundation wall of Methodist Church, south end of west face, bronze tablet stamped "1532 Adj 1903" | 1,532.466

Denison Corners, in foundation wall of the residence of A. A. Wolleber, south end of west face; bronze tablet stamped "1315 Adj 1903" | 1,815.560

From West Winfield southeast along highway to Schuyler Lake.

Plainfield Center, in foundation wall of the Congregational parsonage, west end of south face; bronze tablet stamped "1756 Adj 1903" | 1,755.843

West Exeter, in foundation wall of the store of Denis Harrington, north end of west face; bronze tablet stamped "1320 Adj 1903" | 1,819.666

Exeter, in wall of stone store occupied by P. J. Horan, north end of west face; bronze tablet stamped "1656 Adj 1903" | 1,655.488

Schuyler Lake, in wall of Universalist Church, south end, west face; aluminum tablet stamped "1313 Adj 1903" | 1,312.548
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