#### DEPARTMENT OF THE INTERIOR

FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

**Bulletin 671** 

# SPIRIT LEVELING IN NEW YORK

1896-1905 AND 1912-1916

R. B. MARSHALL, CHIEF GEOGRAPHER

Work done in cooperation with the State



SANOELLED.

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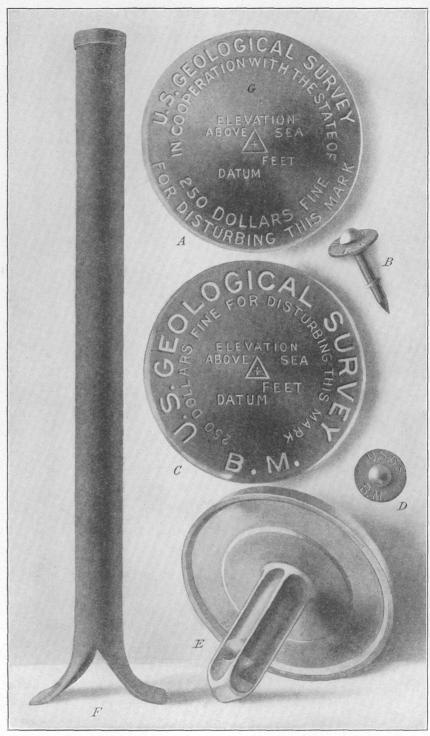
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U. S. GEOLOGICAL SURVEY BULLETIN 671 PLATE I



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.

## SPIRIT LEVELING IN NEW YORK, 1896-1905 AND 1912-1916.

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. first form is a circular bronze or aluminum tablet (C and E, Pl. I). 31 inches in diameter and 1 inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some publicbuilding, 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 31 inches in outer diamter 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 3 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

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 3-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.2 Antwerp. Apalachin.8 Attica. Auburn. Ausable.4 Babylon.5 Baldwinsville. Batavia. Bath. Berlin (N. Y.-Mass.-Vt.). Berne. Big Moose. Binghamton. Blue Mountain. Bolton. Boonville. Brier Hill. Broadalbin. Brockport. Brooklyn. Buffalo.8 Caledonia.

Canton. Cape Vincent. Carmel (N. Y.-Conn.). Carthage. Castleton (Vt.-N. Y.). Catatonk.\* Catskill. Cazenovia. Chateaugav. Chautauqua. Cherry Creek. Chittenango. Churubusco. Clayton. Clove (N. Y.-Conn.). Clyde. Clymer. Cohoes.1 Cooperstown. Copake (N. Y .- Mass.). Corning. Cornwall (Conn.-N. Y.).10 Cortland. Coxsackie. Dannemora. Delhi.

Cambridge (N. Y.-Vt.).

Canada Lake. Name changed—see

West Canada Lakes.

Canajoharie. Canandaigua. Canaseraga.

<sup>1</sup> Albany and vicinity map includes Albany, Cohoes, Schenectady, and Troy maps.

Depew.

Dryden.\*

Dunkirk.

Durham.

Eden.

Easthampton.

Elizabethtown.<sup>4</sup> Ellenville.

<sup>&</sup>lt;sup>2</sup> Shows wooded areas.

<sup>&</sup>lt;sup>3</sup> 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.

Mount Marcy and vicinity map includes Ausable, Elizabethtown, Lake Placid, and Mount Marcy maps. Mount Marcy and vicinity forestry map uses the same base.

<sup>&</sup>lt;sup>5</sup> 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.

<sup>&</sup>lt;sup>6</sup> 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.

<sup>&</sup>lt;sup>7</sup>New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.

 $<sup>^8</sup>$  Niagara River and vicinity map includes parts of all maps bordering on Niagara River.

<sup>&</sup>lt;sup>9</sup> 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.

 $<sup>^{10}</sup>$  Cornwall map, on scale of 1:62,500, has been reduced and forms part of Litchfield map, on scale of 1:125,000.

Elmira (N. Y.-Pa).1 Fire Island.3 Fonda. Fort Ann (N. Y.-Vt.). Fulton.4 Gaines (Pa.-N. Y.). Gardiners Island. Geneva. Genoa. Gilboa. Glens Falls. Gloversville. Goshen (N. Y.-N. J.). Gouverneur. Greene. Greenwood Lake (N. J.-N. Y.). Grindstone. Hamlin. Hammond. Hammondsport. Harford.5 Harlem (N. Y.-N. J.). Hartwick. Hempstead. Highmarket. Hobart. Honeoye. Hoosick (N. Y.-Vt.).

Housatonic (Mass.-N. Y.-Conn.).8

Kaaterskill. Kasoag. Kinderhook. Lake Bonaparte. Lake Placid.10 Lake Pleasant. Lassellsville. Litchfield (Conn.-N. Y.)." Little Falls. Lockport.13 Long Lake. Loon Lake. Lowville. Luzerne. Lyon Mountain. Macedon. McKeever. Malone. Margaretville. Massena. Medina. Mettawee (N. Y.-Vt.).\* Mexico. Milford (N. Y.-Pa.-N. J.) Millbrook (N. Y.-Conn.). Moira. Montauk. Monticello. Mooers. Moravia. Moriches. Morrisville.

Indian Lake.

Islip.2

Ithaca.1

Jamestown.

Mount Marcy.10

\* Mount Marcy and vicinity (20 cents).10

<sup>\*</sup> Out of print.

<sup>&</sup>lt;sup>1</sup> 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.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> 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.

<sup>4</sup> Oswego special map includes parts of Oswego and Fulton maps.

<sup>&</sup>lt;sup>5</sup> 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.

New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.

<sup>&</sup>lt;sup>7</sup> 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.

 $<sup>^8</sup>$  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.

Shows wooded areas.

<sup>&</sup>lt;sup>10</sup> Mount Marcy and vicinity map includes Ausable, Elizabethtown, Lake Placid, and Mount Marcy maps. Mount Marcy and vicinity forestry map uses the same base.

<sup>&</sup>lt;sup>11</sup> Cornwall map, on scale of 1:62,500, has been reduced and forms part of Litchfield map, on scale of 1:125,000.

<sup>&</sup>lt;sup>18</sup> 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). Niagara.4 Niagara Falls.456 \* Niagara Falls and vicinity (10)cents).56 (10 Niagara River and vicinity cents). Nineveh. North Creek. Northeast (Pa.-N. Y.). Northport.7 Norwalk (Conn.-N. Y.). Norwich. Number Four. Nunda. Oak Orchard. Ogdensburg. Olcott.4 Old Forge. Olean. Oneida.

Ontario Beach.8 Oriskany. Orwell. Oswego. Oswego special.9 Ovid. Owego.10 Oxford. Oyster Bay (N. Y.-Conn.). Palmyra. Paradox Lake. Passaic (N. J.-N. Y.).11 Paterson (N. J.-N. Y.).8 11 Pawlet (Vt.-N. Y.).12 Penn Yan. Phelps. Phoenicia. Piseco Lake. Pitcher. Pittsfield (Mass.-N. Y.).18 Plainfield (N. J.-N. Y.). Plattsburg (N. Y.-Vt.). Plattsburg Training Camp (20 cents). Portage. Port Henry (N. Y.-Vt.). Port Jervis (N. Y.-N. J.-Pa.). Port Levden. Potsdam. Poughkeepsie. Pulaski. Pultneyville. Ramapo (N. Y.-N. J.). Raquette Lake.

Oneonta.

<sup>1</sup> Mount Marcy and vicinity map includes Ausable, Elizabethtown, Lake Placid, and Mount Marcy maps. Mount Marcy and vicinity forestry map uses the same base.

<sup>2</sup> 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.

<sup>3</sup> New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.

<sup>4</sup> 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.

<sup>5</sup> Niagara Falls and vicinity map includes Niagara Falls, Tonawanda, and Wilson maps.

<sup>6</sup> Niagara River and vicinity map includes parts of all maps bordering on Niagara River.

<sup>7</sup> 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.

<sup>8</sup> Rochester special map includes parts of Rochester and Ontario Beach maps.

9 Oswego special map includes parts of Oswego and Fulton maps.

<sup>10</sup> 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.

<sup>11</sup> 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.

 $^{12}$  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.

<sup>13</sup> 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.

<sup>\*</sup> Out of print.

Red Mills. Remsen. Rhinebeck. Richfield Springs. Richmondville. Ridgeway. 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.).23 Sangerfield.4 Santanoni. Saranac. Saratoga. Schenectadv. Schoharie. Schroon Lake. Schunemunk, Schuvlerville. Setauket.6 Sheffield (Mass.-Conn.-N. Y.).

Stamford (Conn.-N. Y.). Staten Island (N. J.-N. Y.). Stonington (Conn.-R. I.-N. Y.). Stony Creek. Stony Island. Syracuse. Taberg. Taconic (N. Y.-Mass,-Vt.). Tarrytown (N. Y.-N. J.). Thirteenth Lake. Ticonderoga (N. Y.-Vt.). Tonawanda. 9 10 11 Trov.5 Tully. Tupper Lake. Utica. Waddington. Warren (Pa.-N. Y.). Watertown. Watkins.12 Watkins Glen.18 Waverly.12 Wavland. Weedsport. West Canada Lakes. Westfield. West Point. Whitehall (N. Y.-Vt.). Willsboro (N. Y.-Vt.). Wilmurt. Wilson.9 11 Winfield.

Shelter Island.

Slide Mountain. Sodus Bay.

Silver Creek.

Skaneateles.

<sup>&</sup>lt;sup>1</sup> Rochester special map includes parts of Rochester and Ontario Beach maps.

<sup>&</sup>lt;sup>2</sup> New York City and vicinity map includes Brooklyn, Harlem, Paterson, Staten Island, and parts of Hempstead, Oyster Bay, and Sandy Hook maps.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>4</sup> Shows wooded area.

<sup>&</sup>lt;sup>5</sup> Albany and vicinity map includes Albany, Cohoes, Schenectady, and Troy maps.

<sup>\*</sup>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.

<sup>&</sup>lt;sup>7</sup> 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.

<sup>&</sup>lt;sup>8</sup> 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.

Taconic map, on scale of 1:125,000.

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.

 $<sup>^{10}\,\</sup>mathrm{Niagara}$  River and vicinity map includes parts of all maps bordering on Niagara River.

<sup>&</sup>lt;sup>11</sup> Niagara Falls and vicinity map includes Niagara Falls, Tonawanda, and Wilson maps. <sup>12</sup> 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,1

[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"Holley, Webster warehouse, south and west of Erie Canal bridge 115, in doorsill of door on canal side; copper bolt stamped "514"	Feet. 519. 984 513. 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. 137 674. 637 708. 143
schoolhouse, district 9; copper bolt stamped "652" 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"	651. 645 665. 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,2	•
[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"	364. 786 282. 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

<sup>See Bull. 514, pp. 95-96, for other elevations.
See Bull. 514; pp. 62-63, for other elevations.</sup> 

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 1-inch brass bolt cemented into bed rock 6 inches below surface of ground	Feet. 274. 351
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"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)	287. 768 290. 698
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" Duanesburg, in front of Delaware & Hudson station; top of south	680. 822
railKelleys, at station; top of rail	676. 6 490. 9
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"	409. 008
South Schenectady, at road crossing of West Shore and Delaware & Hudson railroads; top of rail	
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 railFraser station, 650 feet south of, in southwest abutment of railroad	1, 323. 6
bridge over Platner Brook; bronze tablet stamped "N. Y. 1324" Fraser station, 1 mile southwest of, 540 feet southwest of milepost N. Y. 192, in east side of concrete culvert 20; chiseled square	1, 323, 631
painted "t. b. m. 1306.2"	
Delancey, in front of station; top of rail	1, 296. 5
bronze tablet stamped "N. Y. 1285"	1, 285. 497
Hamden, opposite store of E. L. Miller, top of hydrant painted "t. b. m. 1,288.3"	•
Hamden, in front of station; top of rail	

the Deep Waterways Commission.

<sup>2</sup> 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;	1 505 000
bronze tablet stamped "N. Y. 1565"	1, 565. 039
Delancey station, 4.3 miles east of, 50 feet northeast of intersec-	
tion of Bagley Brook and Terry Clove railroads, in ledge, west margin of road; chiseled square painted "t. b. m. 1638.0"	1 622 02
Cabin Hill Church, 2.3 miles west of, 60 feet south of corner, in	1, 056. 06
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;	1, 000. 12
bronze tablet stamped "N. Y. 2203"	2, 203, 151
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. 2092.2"	2, 090. 30
Cabin Hill Church, 1.9 miles east of, at road corner north, in rock in	•
stone wall, in northeast corner; 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. 093
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"	<b>1</b> , 594. <b>451</b>
Andes, 1 mile south of, 528 feet north of railroad bridge 7, in bowlder,	- F10 0F
west margin of track; chiseled square painted "t. b. m. 1546.3"	
Kaufman's, in front of station; top of rail	1, 461. 6
Kaufman's station, 65 feet north of, in ledge, east margin of track; chiseled circle painted "t. b. m. 1463.9"	1 462 00
Kaufman's station, 0.7 mile south of, in boulder 12 feet east of	1, 100. 00
track; bronze tablet stamped "N. Y. 1413"	1 413 419
Wolf Hollow, in front of station; top of rail	
Wolf Hollow station, 0.4 mile south of, in southeast abutment of rail-	2,002.0
road bridge $4\frac{1}{2}$ ; chiseled circle painted "t. b. m. 1357.9"	1, 357, 95
Pleasant Valley, in front of station; top of rail	
Pleasant Valley station, 0.2 mile south of, in southeast abutment of	·
railroad bridge 33; chiseled circle painted "t. b. m. 1324.2"	1, 324. 30
Union Grove, 2 miles north of, in boulder, 35 feet west of track;	
bronze tablet stamped "N. Y. 1295"	1, 295. 335
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	
12½; chiseled circle painted "t. b. m. 1216.1"	1, 218. 92
Union Grove, in southeast corner of railroad bridge, over the East	4 040 000
Branch of the Delaware; bronze tablet stamped "N. Y. 1218.6"	
Union Grove, in front of station; top of rail Union Grove, 1 mile northeast of, in northwest abutment of railroad	1, 219, 5
bridge 10; chiseled square painted "t. b. m. 1220.0"	1 999 90
Jacksonburg siding, 0.5 mile west of, in southwest corner of railroad	1, 444. 00
bridge 8; bronze tablet stamped "N. Y. 1227"	1, 229, 722
Jacksonburg siding, at road crossing; top of rail	
Anomorphise promet at road crossing, sob or restriction	_,

From point near Union Grove west along Delaware & Northern R. R. to Downs ville.	•
Shavertown, 0.7 mile east of, in west side of stone culvert, in cap stone; chiseled circle painted "t. b. m. 1192.5"	1, 195. 33 -
road bridge over Tremper Kill; bronze tablet stamped "N. Y 1187"	
Shavertown, in front of station; top of rail	
Shavertown, 1,8 miles southwest of, in northeast corner of railroad	
bridge 15; chiseled circle painted "t. b. m. 1175.0"	
Pepacton, 1.4 miles east of, on northeast abutment of Rock Eddy	
bridge; top of bolt painted "t. b. m. 1157.5"Pepacton station, 200 feet west of, in northeast corner of railroad	
bridge 17; bronze tablet stamped "N. Y. 1146"	
Pepacton, 1.3 miles west of (Wilson's siding) in east abutment of	?
bridge 18; chiseled square painted "t. b. m. 1134.5"	
Pepacton, 1.9 miles west of, in east side of concrete culvert; bronze	
tablet stamped "N. Y. 1123"Williams siding, 1½ miles east of Downsville, 150 feet east of, in east	
side of concrete culvert; chiseled circle painted "t. b. m. 1120.1"	
Downsville, in northeast abutment of first (and smaller) highway	
bridge from station to village; bronze tablet stamped "N. Y. 1103".	. 1, 102. 927
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	•
Pepacton, 2 miles south of, at road corner east, in boulder in west	
margin of road; chiseled square painted "t. b. m. 1469.7"	
Holliday's Brook School, 0.7 mile south of, in ledge, west margin of	2
road; bronze tablet stamped "N. Y. 1941"	
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"	
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 tables stamped "N. Y. 1651"	
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"	
ANGELICA QUADRANGLE.1	
[Latitude 42° 15'-42° 30'; longitude 78°-78° 15'.]	<b>%</b>
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. 243

<sup>&</sup>lt;sup>1</sup> See Bull. 514, p. 5, for other elevations.

#### Primary leveling in 1903 by George Seidel.

#### 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"Houghton, road crossing at station; top of railCanadaea, 0.6 mile north of, west side of track, old canal lock, foundation, reals	1, 213. 069 1, 210
tion rock	
Caneadea, 500 feet south of station, west end of north abutment of railroad bridge; aluminum tablet stamped "1236 Albany 1903" Oramel, road crossing at station; top of rail	1, 236. 916
Belfast, 2.1 miles south of, west side of track at railroad crossing; top stone of culvert	
Black Creek, road crossing at station; top of rail	
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 Allen Center (single-spur line).	
Allen 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 Eric R. R. to Belmont.	
Belfast, corner of Main Street, northeast corner of foundation to Belfast House; aluminum tablet stamped "1313 Albany 1903"Angelica, crossing at station; top of railAngelica, 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. Whit-comb'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. <sup>1</sup> [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"Campville, in front of station; top of north rail	811. 679 824. 9
10 00 00 11 11 11 11 11 11 11 11 11 11 1	

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"Union station, in front of station, eastbound track; top of south rail_Hooper, in front of station; top of south rail, westbound track	Feet. 828. 353 835. 2 834. 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 Newark Valley, 900 feet south of station, at northwest corner of iron	907. 23
bridge 299 A, on abutment; bronze tablet stamped "961 A" Newark Valley, waiting room at station; doorsill	961, 634 967, 03
From Union north along highway to Maine (single-spur line).	
Union, Duane Street crossing west of station; top of rail Union Center, Andrew & Pitcairn's store, northwest side of; mark on	833. 3
water table  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
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" Arcade, railroad crossing; top of rail	990. 187 974
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"	
From Crittenden east along the New York Central & Hudson River R. R. to Corfu, thence along highway to Darien, 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	000

Corfu, 2.1 miles west of; New York Central R. R. bench mark at mile- post 417	Feet. 878. 36
Corfu, 1.1 miles west of; New York Central R. R. bench mark at mitestone 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	002. 92
tablet stamped "854 Albany 1903" (bench mark on single-spur line) _ Lehigh Valley R. R. crossing; top of rail	854. 445 878
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. 86
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. 211
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	702 22

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 Union Springs north along highway to Cayuga.	
Cayuga, on northwest corner of doorsill to north door of malt house; chiseled squareCayuga, Cayuga and Seneca Canal, lock 10, between anchors of	387. 83
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-Fleming, Methodist Episcopal Church; copper bolt in doorstep, south door, stamped "U. S. G. S. B. M. 912 ft."	721. 13 910. 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) Throopsville, north side of road just east of four corners, on south-	546. 060
east corner of stone horse block; chiseled square 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;	516. 36
chiseled square	408, 87
BABYLON 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 railBabylon, Methodist Episcopal Church on Deerpark Avenue, front face near north end; bronze tablet stamped "17 Willets Pt. 1901"	13. 0 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.1	
[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 abut-	

<sup>&</sup>lt;sup>1</sup> 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"Phoenix, Oswego Canal, in second step of abutment, south end, on Bridge Street; copper bolt stamped "364 A" (canal bench mark)Phoenix, Oswego Canal, guard lock 1, in upper hollow quoin between cinchers; copper bolt stamped "363 A" (canal bench mark)Baldwinsville, southeast corner of Free Academy, Elizabeth Street;	Feet. 395, 020 365, 000 364, 400
aluminum tablet stamped "423 Oswgo"  Warners, 700 feet east of crossroads, Mr. Hawley's brick dwelling, in east end of stone water table; aluminum tablet stamped "477 Oswgo"	424. 348 478. 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. 689 413. 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 railBatavia (Attica branch of New York Central), 0.5 mile from station, in northeast abutment of railroad bridge; bronze tablet stamped "893 Rochester"	900. <b>4</b> 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" Dale, in front of station; top of rail 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, 215. 0
From Warsaw north along the Buffalo, Rochester & Pittsburgh Ry. via Pearl Greek and Pavilion Center to Leroy.	
Pearl Creek, 800 feet north of station, southeast abutment of rail- road bridge over creek; bronze tablet stamped "954 Rochester" Pavilion Center, 400 feet south of, bridge over highway, in top of	954. 333

#### 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.	
Friendship, in front of Erie station; top of south rail	Feet.
Friendship, Union School building, water table at right of main en-	
trance; aluminum tablet stamped "1520 D"	1, 521. 036
Belmont, southeast corner of Alleghany County Jail, in stone founda-	
tion; aluminum tablet stamped "1416 D." Permission granted B. B. Ackerman, Belmont, N. Y., February 2, 1912, to move this	
mark	
Belmont, in front of Erie station; top of south rail	
Primary leveling in 1896 by E. L. McNair.	
From Cuba southeast to Clarksville.	
Clarksville, at M. M. Congdon's residence, in stone horse block; cop-	
per 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.	
Delanson, in front of Delaware & Hudson station; top of south rail	812. 5
Primary leveling in 1898-1900 by Seth Van Loan and J. H. Hodges.	
From Delanson south to Gallupville, thence southeast to East Berne.	
Delanson, in front of station; top of rail	
Delanson, in front of station; top of railGallupville, Dutch Church, in wall near southeast corner; bronze tab-	
Delanson, in front of station; top of railGallupville, Dutch Church, in wall near southeast corner; bronze tablet stamped "831 Albany"	831. 310
Delanson, in front of station; top of rail	831. 310
Delanson, in front of station; top of railGallupville, Dutch Church, in wall near southeast corner; bronze tablet stamped "831 Albany"	831. 310
Delanson, in front of station; top of rail	831. 310 1, 014. 986
Delanson, in front of station; top of rail	831. 310 1, 014. 986
Delanson, in front of station; top of rail	831. 310 1, 014. 986
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094 1, 174. 310
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094 1, 174. 310
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094 1, 174. 310 464. 780
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094 1, 174. 310 464. 780
Delanson, in front of station; top of rail	831. 310 1, 014. 986 1, 144. 094 1, 174. 310 464. 780 771. 86

#### 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.)	
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;	404 500
bronze tablet stamped "Albany 464"Altament 10 miles goutheast of 100 feet gouthwart of Delaware 6	
Altamont, 1.2 miles southeast of, 100 feet southwest of Delaware &	
Hudson R. R. crossing, east of road, on small boulder; keel mark_	
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	
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	
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	
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	
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	
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	ı
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 "	
Altamont, 5.5 miles southeast of, 0.7 mile west of Park triangula-	
tion station, at crossroads, on stone; chisel cross	
Altamont, 6.63 miles southeast of, 400 feet east of white house, on	
ledge; chisel cross	
Altamont, 7.5 miles southeast of, 250 feet north of bridge, on east	
edge of road, on stone; chisel cross	
Altamont, 8.2 miles southeast of, 200 feet east of small house, on	
north side of road, on rock, chisel cross	
Altamont, 10.27 miles southeast of, 80 feet south of bridge, on west	

side of road, on stone; cross mark\_\_\_\_\_\_1,191.54

#### 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.

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"	Feet. 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"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 fact of large boulder; bronze tablet stamped "2036 Albany"	
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 Binghamton, Broome County courthouse, west end of, at left of base-	848. 1
ment entrance from Collier Street; aluminum tablet stamped	,
"867 A"	866. 056
Binghamton, in front of Erie and Delaware & Hudson station, west- bound track; top of north rail	863. 5
Binghamton, 1 mile east of, at crossing of Delaware & Hudson and	000.0
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

Tort Crane, 5.25 miles west or, 900 feet west or road crossing, in	
parapet wall at east end of culvert under railway; bronze tablet Feet.	
stamped "959 A" 958. 51	9
Port Crane, in front of station; top of north rail1,041.8	
Sanitaria Springs, in front of station; top of north rail1, 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. 61	7

#### Precise leveling in 1900 by C. 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. 05 <b>0</b>
Langdon, 1,000 feet north of station, top of south abutment west side	
of creek culvert; bronze tablet stamped "860 Albany 1900"	860.468
Langdon, in front of station; top of rail	864. 4
Kirkwood, in front of station, northbound track; top of rail	871.6
Kirkwood, 0.5 mile south of, retaining wall of signal tower, in north- west 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.

 886. **7** 

#### 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. 1793 Ft. B. M."\_\_\_\_\_\_\_\_\_1, 788.807

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. Feet. B. M. 1,918"	From Cedar River House southwest to Wakely dam.	
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	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.	
room; 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	From Cedar River House northwest to Blue Mountain Lake.	
Blue Mountain Lake, foundation of schoolhouse, in second stone from southwest corner of second course from top; bronze tablet stamped "1810"	room; in outcrop; copper bolt stamped "U.S.G.S. 1941 Ft.B.M."_Blue Mountain Lake, 3 miles southeast of, bridge over Rock River, on	÷
southwest corner of second course from top; bronze tablet stamped "1810"	From Blue Mountain Lake north to Long Lake.	
and 2.5 feet above center of road, in bowlder; copper bolt stamped "U. S. G. S. 1855 Ft. B. M."	southwest corner of second course from top; bronze tablet stamped "1810"	1, 805. 700
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."	and 2.5 feet above center of road, in bowlder; copper bolt stamped	1, 851, 176
Long Lake, front line of Lake House, 35 feet south of house, on bowlder; chiseled mark ("Colvins B. M. 71 A")	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	
fork in State road to Forked Lake, 50 feet south of road, north face of large boulder; 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."	Long Lake, front line of Lake House, 35 feet south of house, on bowlder; chiseled mark ("Colvins B. M. 71 A")	
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."	fork in State road to Forked Lake, 50 feet south of road, north	1, 726. 514
feet to right and 2.5 feet above center of road; copper bolt stamped "U. S. G. S. 1863 Ft. B. M."	From Long Lake east to Essex-Hamilton County line.	
BOONVILLE QUADRANGLE.¹  [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 1900"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	feet to right and 2.5 feet above center of road; copper bolt stamped "U. S. G. S. 1863 Ft. B. M."	
[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 1900"		1, 694. 227
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 1900"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		
At Boonville.  Boonville, canal lock 71, at railroad station, top of west wall, south end; bronze tablet stamped "1120 Albany 1900"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		
Boonville, canal lock 71, at railroad station, top of west wall, south end; bronze tablet stamped "1120 Albany 1900"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		
end; bronze tablet stamped "1120 Albany 1900"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		•
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		1, 121. 306
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	Primary leveling in 1901 by A. S. Havens.	
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		
	north end; bronze tablet stamped "1493 Albany 1901" West Branch, steel bridge over West Branch of Mohawk River, south abutment, top of east end; bronze tablet stamped "1002	

<sup>&</sup>lt;sup>1</sup> See Bull. 514, p. 78, for additional elevations.

Albany 1901" \_\_\_\_\_ 1,001.800

Stokes, south entrance to hotel on northeast corner of crossroads, west end of lower step; chisel mark	Feet.
Delta, steel bridge over Mohawk River, north of State dam, top of	634. 6
north end of east abutment; bronze tablet stamped "516 Albany 1901"	516, 10
Westerville, canal lock 16, southwest hollow quoin between anchors; copper bolt	587. 6
Frenchville, canal lock 17, top of north end of west wall; copper bolt	595. 4'
Frenchville, steel bridge over creek, top of west end of south abutment; aluminum tablet stamped "593 Albany 1901"	593. 30 932. 2
BRIERHILL QUADRANGLE.1	
[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. 2
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"	300 O
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	389. 91
1903 Adj "	301. 48
Edwardsville, in foundation wall of Union Church, east end of south face, bronze tablet stamped "295 Albany 1903 Adj"	295. 20
Edwardsville, 2.93 miles northwest of; 2.6 miles southeast of Morristown, in solid rock, 30 feet west of southwest corner of red school-	
house and 54 feet northeast of intersection at four corners; ronze tablet stamped "300 Albany 1903 Adj"	300. 22
Morristown, in foundation wall of stone warehouse, 79.5 feet from north side of United States customhouse; 2-inch bolt (Deep Water-	
ways bench mark)	271. 28
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. 45
West Galway, in northwest corner of foundation wall of Presbyterian Church; aluminum tablet stamped "871 Albany"	871. 94
Broadalbin, in southeast corner of brick Baptist Church; aluminum tablet stamped "820 Albany"	820. 56

<sup>&</sup>lt;sup>1</sup> 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	Feet.
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"	1 010 27
Northampton, 2.9 miles south of, at intersection of roads, northwest	1,019.87
corner, 50 feet north of road; old State bench mark	1, 035. 00
Hagedorns Mills, south abutment in southeast corner of bridge over	074 994
creek; bronze tablet stamped "975 Albany" North Galway, square stone monument 200 feet north of road locally	974. 824
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 founda-	
tion 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
BROCKFORT 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 Car Dull Fild a Of for additional algorithms	

Sweden Center, 1 mile south of, at Geo. W. Way's residence, in foundation wall under bay window; bronze tablet stamped "639 B"	Brockport Normal School, in foundation wall in front of office; bronze tablet stamped "538 B"	Feet. 539. 231
Bergen, West Shore R. R. crossing; top of rail		640. 191
Bergen, West Shore R. R. crossing; top of rail	Spur lines from corrected railroad levels of doubtful value.	
Bergen, New York Central & Hudson River R. R. station; top of rail. Bergen, New York Central & Hudson River R. R. station, in doorstep of baggage room; bronze tablet stamped "604 B"	At Bergen.	
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"	Bergen, New York Central & Hudson River R. R. station; top of rail_Bergen, New York Central & Hudson River R. R. station, in doorstep	604.1
Central & Hudson River R. R., in south end of old culvert abutment at southwest corner of flagman's shanty; bronze tablet stamped "561 B"	Southward from Chili station (New York Central R. R.).	or the second
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)	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
Churchville, 800 feet east of station; west abutment of New York Central & Hudson River R. R. bridge 721 (railroad company's bench mark)	· · · · · · · · · · · · · · · · · · ·	559. 471
Central & Hudson River R. R. bridge 721 (railroad company's bench mark)	At Churchville.	,
[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	Central & Hudson River R. R. bridge 721 (railroad company's bench mark)	569. 569. 6
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	BUFFALO QUADRANGLE,	•
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		
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		
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		
tically in ground 589. 591	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	587
	tically in ground	

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	Feet. 585. <b>66</b>
Buffalo (railroad bench mark), northwest corner two-span, steel-truss bridge 267 over Buffalo Creek, southwest corner of parapet wall; chiseled circle	591. 46
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	589. 16
West Seneca, in Front of station; top of rail	599. 9
Athol Springs, in front of station; top of rail	591. 27 626
Athol Springs, 0.76 mile south of, milepost "B 11" north face, 6 feet	020
above ground; chiseled square	640. 54
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"	631. 110
Athol Springs, 1.1 miles south of, road crossing to "Hamburg-on-the-Lake;" top of east rail	636. 6
Primary leveling in 1903 by George Seidel.	
From Ebenezer north along highway to Williamsville.	
	***
Ebenezer, railroad crossing at station; top of rail	636. 3
	630. <b>57</b>
	828
Erie R. R. crossing; top of rail	636 641
Delaware, Lackawanna & Western R. R. crossing; top of rail	636 641
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"	
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	641 662. 079 657. 69
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"	641 662. 079
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	641 662. 079 657. 69
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 founda- tion 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	662. 079 657. 69 654. 75
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.	641 662. 079 657. 69
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°.]	662. 079 657. 69 654. 75
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 founda- tion 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.	662. 079 657. 69 654. 75
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.  From Avon southwest along Pennsylvania R. R. to Cuylerville.  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	641 662, 079 657, 69 654, 75 543, 5
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.  From Avon southwest along Pennsylvania R. R. to Cuylerville.  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	641 662. 079 657. 69 654. 75 543. 5 551. 98 561. 2
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.  From Avon southwest along Pennsylvania R. R. to Cuylerville.  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	641 662, 079 657, 69 654, 75 543, 5 551, 98 561, 2 561, 3
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"	641 662. 079 657. 69 654. 75 543. 5 551. 98 561. 2
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.  From Avon southwest along Pennsylvania R. R. to Cuylerville.  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	641 662, 079 657, 69 654, 75 543, 5 551, 98 561, 2 561, 3
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.  From Avon southwest along Pennsylvania R. R. to Cuylerville.  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	641 662. 079 657. 69 654. 75 543. 5 551. 98 561. 2 561. 3
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"	641 662. 079 657. 69 654. 75 543. 5 551. 98 561. 2 561. 3 555. 76 564. 96

	Feet.
Cuylerville, in front of station; top of east rail	569. 9
Cuylerville, 0.53 mile south of, northwest corner of bridge 5, on northwest corner of parapet wall; chiseled square	569. 29
Delaware, Lackawanna & Western Junction, grade crossing; top of east rail	586. 8
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"	608. 977
From Genessee Valley junction south along the Erie R. R. to Mount Morris.	
Avon, west side of station; platform	<b>584.</b> 0
Ashantee, in front of station and creamery; top of rail	579.8
South Avon, road crossing near station; top of east rail	614. 3
Geneseo, in front of station; top of east rail Geneseo, 60 feet east of Erie freight house, 5 feet south of northwest	596. 2
corner of Delehanty's warehouse, in west face of foundation wall;	
aluminum tablet stamped "602 Rochester"	602.290
Cuylerville, road crossing; top of east rail	579. 2
From Avon west along the Eric 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	557. 4
of foundation wall; aluminum tablet stamped "669 Rochester" Leroy, junction of the Erie and the Buffalo, Rochester & Pittsburgh railroads; top of rail	668. 399
Leroy, "Church crossing" of Erie R. R., at southwest corner of, at northeast corner of malthouse lettered "D," in easterly face;	862. 50
bronze tablet stamped "869 Rochester"	868. 385
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"	660. 404
Leicester, highway crossing; north rail	656. 2
Greigsville, in front of station; top of north rail	762. 0
Craigs, highway crossing; top of north rail	865. 0
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"	865. 988
Linwood, in front of station; north rail	933. 2
CANAJOHARIE QUADRANGLE. <sup>1</sup> [Latitude 42° 45′-43° : longitude 74° 30′-74° 45′ ]	
[2007]	
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	350. 301 675. 72
man shirthe, schoolhouse, south end of doorshi	010.12

From Ames east to Blaine, thence south to Sharon.	
Blaine, 50 feet from east coping of cemetery wall; aluminum tablet stamped "A 943"	Feet. 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, 295. 007
From Sharon Springs station northwest to Sprout Brook, thence east to Ames.	
Sprout Brook, 1 mile south of, at road corner; south end of school-house doorsill	783. 73 825. 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) Fort Plain, Union Free School, Division Street front, water table	312. 151
1 foot from south corner; aluminum tablet stamped "A 316" Fort Plain, 1.5 miles west of, Valley schoolhouse; west end of door- sill	317. 090 394. 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 Lake, at outlet; surface of water September 13, 1899 Canandaigua, southwest corner of courthouse, in foundation wall; bronze tablet stamped "766 Oswego 1899"	684. 8 766. 916
Holcomb, in front of station; top of rail  East Bloomfield, southeast corner of hotel; aluminum tablet stamped "1017 Oswego 1899"	877. 0 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. 59 <b>6</b> 560. 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. 3 713. 594
CANASERAGA QUADRANGLE.1	
[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	
Precise leveling in 1902 by D. H. Baldwin.	
From Swain east along Eric R. R. to Canascraga.	
Swain, 1.7 miles north of, southeast corner of steel-girder bridge over small stream, on parapet wall; chiseled squareSwain, 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 Swain, 200 feet south of Erie R. R. station, small Union Church, northwest corner of, in foundation wall; aluminum tablet stamped	
"1316 Rochester 1902"Swain, in front of Erie station; top of north rail	1, 316. 658
Swain, 0.4 mile southeast of, northwest corner of bridge 9, on coping stone of foundation; chiseled squareSwain, 1.79 miles southeast of, northeast corner of bridge 8, on	1, 297. 10
parapet wall; chiseled squareGarwood, in front of station; top of south rail, northbound track 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 Canaseraga, Kingston Hotel, southwest corner, in water table; aluminum tablet stamped "1253 Rochester 1902"	•
	1, 202. 010
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"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"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.	1, 316. 658 1, 414. 13
T. B. M. 1506"Grove, opposite station; top of rail	

Grove, 0.33 mile southwest of station, in northeast wing of concrete overhead crossing, top tier; bronze tablet, stamped "1639"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"Center, 0.3 mile northeast of, on boulder 5 feet west of track;	1, 704. 27
chiseled square, painted "U. S. T. B. M. 1710.2"Center, opposite station, top of railCenter, 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" Birdsall, 0.32 mile northeast of station, 180 feet north of sawmill	1, 770. 605
crossing, on boulder 6 feet east of track; chiseled square painted "U. S. T. B. M. 1743"	•
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" 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"	
Scholes, in front of station; top of railScholes, 1.63 miles southwest of, 250 feet south of road crossing, in boulder 6 feet east of track; bronze tablet stamped "1608"	
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.	
Bennett, opposite station; top of rail 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. 659
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 00
County House, 0.53 mile west of, in southeast corner concrete abutment of railroad bridge; bronze tablet stamped "1486"	,
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"	
Blinn's Four Corners, 500 feet south of, in boulder 4 feet west of road; bronze tablet stamped "1645"Blinn's Four Corners, 1.10 miles south of, on large sandstone boulder;	1, 645. 428
chiseled square painted "U. S. T. B. M. 1825" Blinn's Corners, 2.16 miles south of, 1.07 miles north of crossroad,	1, 824. 56
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;	Foot
copper nail and washer painted "U. S. t. b. m. 1803"	
Phillips Creek, in southwest abutment of bridge at cheese factory;	1, 002. 02
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 horse	
block; 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	1 040 00
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"	1 720 010
Alfred station, 1.06 miles west of, on south side concrete culvert;	1, 730. 019
chiseled square painted "U. S. t. b. m. 1638.1"	1 638 14
Alfred station, Erie station, water table under front office window	1, 000. 11
facing track; aluminum tablet stamped "1611 D"	1, 611, 391
	_, 0
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 De Kalb 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	207 071
stamped "398"	397. 971
Canton, 1.0 mile southwest of, on southwest corner of railroad bridge abutment; chiseled square marked "367.6"	
Canton, town hall, east end of top step of main entrance; aluminum	266 55
Canton, town han, east cite of top step of main chitranec, araminan	366. 55
tablet stamped "362"	
tablet stamped "362"Canton, 3.4 miles north of, at T road east, beside old State road, on	366. 55 363. 132
Canton, 3.4 miles north of, at $\boldsymbol{T}$ road east, beside old State road, on	
	363. 132
Canton, 3.4 miles north of, at <b>T</b> road east, beside old State road, on granite boulder; chiseled square marked "375"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	363. 132
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"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"	363. 132
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"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"Canton, 6.5 miles north of, on old State road, 15 feet east of center of	363. 132 375. 09
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"	363. 132 375. 09
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"	363, 132 375, 09 349, 045
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"	363, 132 375, 09 349, 045 330, 93
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"	363, 132 375, 09 349, 045
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"	363, 132 375, 09 349, 045 330, 93
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"	363, 132 375, 09 349, 045 330, 93 314, 398
Canton, 3.4 miles north of, at T road east, beside old State road, on granite boulder; chiseled square marked "375"	363, 132 375, 09 349, 045 330, 93

bronze tablet stamped "320"\_\_\_\_\_

319, 557

#### 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"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	Feet. 330. 237
"330.2"	330. 57 328. 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
stamped "323"Lisbon, in foundation wall of Methodist Church, center of south face; bronze tablet stamped "357"	322. 668 357. 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. 132 377. 91
tablet stamped "363"Crary Mills, west abutment of bridge over Granite Brook, southwest corner of abutment; aluminum tablet stamped "462"Crary Mills, 3.1 miles southeast of, southeast abutment of bridge over Leonards Brook; aluminum tablet stamped "597"	363. 957 463. 383 597. 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. 346 746. 2 741. 2
stamped "741 Albany 1900"Carthage, in front of station; top of rail	742. 143 737. 4

<sup>&</sup>lt;sup>1</sup> 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.
	Co	penha	gen to	Champion	n, t	hence east	to Carth	age.		

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 Eric 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 Eric 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	

#### 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"	

<sup>1</sup> See Bull. 514, p. 46, for additional elevations.

875.150

# CAZENOVIA QUADRANGLE.1

[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"	Feet.
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 squareOran, 300 feet west of church, 20 feet north of road, copper bolt in prominent boulder; stamped "S 793"	1, 092. 08
From Fabius south via Keeney to Cuyler.	
Fabius, 1.75 miles south of, east end of south abutment of iron bridge; chiseled square	,
Cuyler, 1 mile northeast of, near end of northeast wing of iron bridge over Tioughnioga River; chiseled square	
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
bridge, north abutment, west end parapet; iron bolt set in cement (railroad bench mark 94)	1, 386. 053
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"Erieville, railroad bridge over road south of, on top stone, south end	1, 538. 754
west abutment; chiseled square	1, 619. 10

# 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 bottom course; copper bolt stamped "1473 S"	
Nelson, 500 feet south of crossroads, on face corner of bottom stone, east end of north abutment of bridge; chiseled square	
Fenner, 1 mile south of, 1,000 feet north of Peterboro turnpike, 150	<b>-,</b>
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; chis-	
eled 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 con-	
crete supporting wall of sidewalk; bronze tablet stamped "972"	
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	302. <del>11</del>
side of concrete culvert; bronze tablet stamped "885"	884, 321
Burke, in front of station; top of rail marked "876"	
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"	<b>856. 12</b>
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"Thayers Corners, 2.23 miles north of, in bridge over creek, on top of stone of southwest abutment; chiseled square painted "U. S.	597. 166
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 farm-house, 35 feet south of road in sandstone boulder; bronze tablet	
stamped "309"Constable, 4.65 miles north of station, 0.3 mile east of railroad on southeast abutment of bridge over "Susie's Brook," top stone;	308. 597
chiseled square painted "U. S. T. B. M. 277"Constable, 3.7 miles north of station, 290 feet south of milepost M 9, 800 feet north of road crossing, in southwest corner of concrete cowpass; bronze tablet stamped "296"	276. 70 295. 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"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.	884. 321
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"	Feet.
Belmont Center, 0.66 mile west of church, 190 feet east of ${\bf T}$ road to north, on granite boulder 12 feet north of road; chiseled square	
painted "U. S. T. B. M. 1302.9"Belmont Center, at road forks at church, on boulder at foot of tele-	1, 302. 41
phone pole, 12 feet south of road; chiseled square painted "1326.3"_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	1, 325. 87
tablet stamped "1421"Belmont Center, 1.64 miles southeast of church, in bridge over creek,	1, 420. 436
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"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.	1, 350. 459
1315 "Chateaugay Lake, 1.14 miles south of Banner House, on east side of	1, 314. 82
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;	1. 176. 082
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"Burke, 4.26 miles southwest of, on concrete bridge over small stream,	
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"Burke, 4.26 miles southwest of, on concrete bridge over small stream, east side; chiseled square painted "U. S. T. B. M. 1184.2"Burke, 5.36 miles southwest of, 0.3 mile east of white church corner,	1, 183. 89
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, 183. 89
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, 183. 89 1, 204. 31
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, 183. 89 1, 204. 31 1, 217. 042
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, 183. 89 1, 204. 31 1, 217. 042 1, 247. 52
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, 183. 89 1, 204. 31 1, 217. 042 1, 247. 52 1, 242. 09
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, 183. 89 1, 204. 31 1, 217. 042 1, 247. 52 1, 242. 09
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, 183. 89 1, 204. 31 1, 217. 042 1, 247. 52 1, 242. 09 1, 254. 789 1, 421. 12
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, 183. 89 1, 204. 31 1, 217. 042 1, 247. 52 1, 242. 09 1, 254. 789 1, 421. 12

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. 380
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"	
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"Chateaugay Lake, 4.84 miles south of, 1.45 miles south of Rabbit Inn,	1, 787. 87
on Fred Hoy's tote road, in rock beside road; bronze tablet stamped "1920"	1, 920, 177
on boulder in middle of tote road; chiseled square painted "U. S. T. B. M. 1605"	
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. 1573"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"Chateaugay Lake, 1.47 miles south of where Hoy's tote road leaves	1, 644. 418
main road, on boulder at fork; chiseled square painted "U. S. T. B. M. 1619"	1, 619. 24
boulder at corner; chiseled square painted "U. S. T. B. M. 1524" Chateaugay Lake, at crossroads, west of bridge, in west side of con-	1, 524. 03
crete culvert; bronze tablet stamped "1351"	1, 350. 459
The William I will and the set oliver New York Control of William Direct D. D.	
From Whippleville southeast along New York Central & Hudson River R. R. to Owls Head.	
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" Whippleville, in front of station; top of rail, marked "1103.7"	
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" Whippleville, in front of station; top of rail, marked "1103.7" Whippleville, 1.34 miles south of station, 475 feet south of milepost 168, on granite bowlder, 25 feet east of track; chiseled square	1, 103. 3
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, 103. 3 1, 210. 97
Whippleville, 720 feet south of station, on southwest wing of stone culvert; chiseled square painted "U. S. T. B. M. 1112.4"	1, 103. 3 1, 210. 97 1, 269. 159
Whippleville, 720 feet south of station, on southwest wing of stone culvert; chiseled square painted "U. S. T. B. M. 1112.4"	1, 103. 3 1, 210. 97 1, 269. 159 1, 312. 18
Whippleville, 720 feet south of station, on southwest wing of stone culvert; chiseled square painted "U. S. T. B. M. 1112.4"	1, 103. 3  1, 210. 97  1, 269. 159  1, 312. 18  1, 327. 46  1, 269. 159
Whippleville, 720 feet south of station, on southwest wing of stone culvert; chiseled square painted "U. S. T. B. M. 1112.4"	1, 103. 3  1, 210. 97  1, 269. 159  1, 312. 18  1, 327. 46  1, 269. 159 1, 302. 4
Whippleville, 720 feet south of station, on southwest wing of stone culvert; chiseled square painted "U. S. T. B. M. 1112.4"	1, 103. 3  1, 210. 97  1, 269. 159  1, 312. 18  1, 327. 46  1, 269. 159 1, 302. 4  1, 327. 46

# CHAUTAUQUA QUADRANGLE.

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

# Primary leveling in 1902 by G. M. Dimmick.

From Westlin southeast slane Towardson Chautausus & Take Dais Dr. wie	٠
From Wooglin southeast along Jamestown, Chautauqua & Lake Erie Ry. via Chautauqua Point to Jamestown.	
	Feet.
Chautauqua Point, in front of station; top of south rail	
Dewittville, in front of station; top of south rail	
Dewittville, foundation wall of Methodist Church, 7.5 feet west of	
southeast corner, in southern side; bronze tablet stamped "1319	
Dunkirk "	
Starr Farm, in front of station; top of south rail	
Midway Grove; top of south rail  Midway, highway crossing near station; top of south rail	
Warners, in front of station; top of south rail	
Giffords, in front of station; top of south rail	
Bay View, in front of station platform; top of south rail	
Bemus Point, in front of station; top of south rail	
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"	
Phillips Mills, in front of station; top of south rail	
Colburns, in front of station; top of south rail	
Belleview, in front of station; top of south rail	
Driftwood, in front of station; top of south rail	
Griffith, in front of station; top of south rail	
Greenhurst, in front of station; top of south rail	
Fluvanna, in front of station; top of south rail	
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"	
tablet Stamped 1100 Dunkirk 1002	1, 100. 100
From Jamestown southwest along Erie R. R. to Niobe (Grant station), thence north along highway to Pansma, 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"	
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"	
Ashville, in front of station; north rail	
Watts Flats, in front of station; top of north rail	
Niobe, north end of brick wall, west abutment of Erie R. R. bridge	
600 feet west of depot; bronze tablet stamped "1434 Dunkirk"	•
Panama, Hotel Berny, north face, east corner, in water table; alumi-	
num tablet stamped "1551 Dunkirk"	. 1, 550. 667

### CHERRY CREEK QUADRANGLE.

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

### Precise leveling in 1898 by E. L. McNair.

# 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	Feet.
boulder; chiseled square marked "t. b. m. 1,520.5"	
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. 1558.3"_	1, 558, 36
Sevey Corners, 600 feet southwest of Sevey Hotel, 50 feet southwest	2,000.00
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 "	1 591 994
Sevey Corners, 1 mile east of, on north side of road, in large boulder;	1, 991. 004
chiseled square marked "t. b. m. 1582.8"	1 500 07
	1, 502. 61
Sevey Corners, 2 miles east of, at northwest corner of road forks, in	1 017 00
large rock; chiseled square marked "t. b. m. 1617.6"	1, 011. 03
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,	1 007 000
1916, Elev. 1628" 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.	1 000 70
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"	1 521 924
Sevey Corners, 1.1 miles north of, on east side of road in boulder;	1, 001. 004
chiseled square marked "t. b. m. 1458.2"	1 450 00
Sevey Corners, 1.6 miles north of, 200 feet north of road corners, on	1, 400, 20
east side of road in old stump; copper nail marked "t. b. m.	
	1 450 10
1456.2 "	ı, 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"	Feet.
Sevey Corners, 2.9 miles north of, on west side of road, in front of	1, 400. 04
H. C. Perry's residence, in large boulder; chiseled square marked "t. b. m. 1413.9"	1 412 00
Sevey Corners, 3.1 miles north of, 1,000 feet north of H. C. Perry's	1, 410. 50
residence, on west side of road, in root of pine tree; copper nail	1 447 10
marked "t. b. m. 1447.1"	1, 447. 10
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"Sevey Corners, 5.1 miles north of, on east side of road, in boulder;	1, 394. 26
chiseled square marked "t. b. m. 1384.3"	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"	
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"	
Hollywood, 0.9 mile north of, on east side of road, in boulder; chiseled square marked "t. b. m. 1378.0"	1 970 10
Hollywood, 1.9 miles north of, on west side of road, in large boulder;	1, 516, 10
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"	
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	400.00
towpath abutment; fourth step (old canal bench mark 52)Canastota, 0.5 mile south of New York Central & Hudson River R. R.	433. 89
station; iron bolt in culvert coping (Lehigh Valley R. R. bench	
mark 118)Clockville, 400 feet south of, 15 feet east of track; water-pipe valve	457. 406
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
	_,

# From Constantia east to Cleveland.

Cleveland, opposite station, west end of concrete wall; bronze tablet stamped "416 Albany 1903"	
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 north- east 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."Lyon Mountain, 2.2 miles north of, at road fork, 5 feet west of road,	1, 707. 661
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"	
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."	
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."	
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"	·
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."	
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."	
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."	
Ellenburg Center, on south end of east abutment of highway bridge over Chazy River; chiseled square marked "1202.2 B. M."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."Ellenburg Corners, 1.2 miles northeast of, in southwest corner of crossroads, on large quartz boulder; chiseled square marked		Fect 963.	
"941.0 B. M."  Ellenburg, 250 feet west of station, in southwest corner of road fork, at Rutland R. R. under grade crossing, on concrete pavement;		940.	
chiseled square marked "883.7 B. M." Ellenburg, in second stone from top of northwest corner of founda- tion of Grange Hall at southeast corner of Main and State streets,	8	383.	33
100 feet south of Main Street, 40 feet east of State Street; bronze tablet stamped "838"	8	337.	198
Dannemora siding, top of south rail of main track at grade crossing, marked "870.8"	8	370. ·	48
Ellenburg, 1.7 miles south of, in northeast corner of crossroads, on quartz boulder; chiseled square marked "988.4 B. M."	9	988.	01
Ellenburg, 2.8 miles south of, in east end of south abutment of highway bridge over Graves Brook; bronze tablet stamped "1116" Ellenburg, 4.1 miles south of, 500 feet north of dwelling, 10 feet east	1, 1	15.	226
of highway, on brown quartz boulder; chiseled square marked "1289.2 B. M."	1, 2	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 9	201	7 <b>8</b>
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"Ellenburg, 7.3 miles south of, 150 feet north of Wallace School, 10	1, 4	65.	446
feet west of highway, on large quartz boulder; chiseled square marked "1225.5 B. M." (probably marked incorrectly)	1, 5	<b>25.</b> :	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, 4	67.	48
Ledgers Corner, 50 feet northwest of road fork, 70 feet southeast of schoolhouse, in quartz rock; bronze tablet stamped "1601"Ledgers Corner, 1.1 miles west of, 200 feet south of dwelling, 7 feet	1, 6	800.	631
south of highway on flat sandstone rock; chiseled square marked "1645.5 B. M."	1. 6	345. (	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."			
Ledgers Corner, 3.6 miles west of, 300 feet east of dwelling 15 feet north of highway, in large white quartz rock; bronze tablet			
Lyon Mountain, 3 miles northeast of, on southeast end of south abut-	1, 5	74.	372
ment of concrete culvert, near junction of railroad sections 7 and 9, 12 feet from center of track; aluminum tablet stamped "1715"_	1, 7	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 OS mile porth of south edge of ditch couth side of			
Lyon Mountain, 0.8 mile north of, south edge of ditch, south side of road forks, on white quartz boulder; chiseled square painted "1707"	1, 7	07.	66
Lyon Mountain, 1.8 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 4	15 (	12

	₩.a.
Divided Brook, floor of bridge over	Feet.
Divided Brook, surface of water; June 18, 1912	1 372 0
Lyon Mountain, 2.2 miles north of, on south side of bridge over Di-	2, 0.2.0
vided Brook at forks of road to Hutton; top of bolt marked	
"1357 "	1, 356, 37
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"	1, 333, 066
Chateaugay Lake, floor of iron bridge over arm of	
Chateaugay Lake, surface of water, June 19, 1912	•
Lyon Mountain, 4.1 miles north of, 160 feet north of road forks, 30	2, 020. 0
feet north of Backus's store, 50 feet east of Catholic Church, on	
rock on east edge of road; chiseled square marked "1314.4"	1 314 93
Lyon Mountain, 5.2 miles north of, 150 feet north of small yellow	1, 011. 20
house, east side of road, on boulder; chiseled square marked	
"1331"	1 221 95
Lyon Mountain, 6.3 miles north of, west side of road, 20 feet north	1, 001. 20
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"	1 222 70
Lyon Mountain, 6.7 miles north of, 15 feet west of center of road,	1, 322. 19
•	
in yard of house occupied by Ezra Bigor, in boulder; bronze tablet	1 007 105
stamped "1327"	1, 321. 103
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	1 017 00
"1317.8"	1, 317. 63
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	1 001 10
top of boulder; chiseled square marked "1331.3"	1, 331. 13
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	1 015 00
"1616"	1, 615. 66
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. McPher-	
son, in rock; bronze tablet stamped "1649"	1, 649. 036
Lyon Mountain, 10.2 miles north of, west side of soad, 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"	1, 786. 71
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"	1, 777. 60
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"	1, 822. 00
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"	1, 739. 06
Star Crossroads, north side of road, $300$ feet west of intersection, $20$	
feet north of center of road, 100 feet northeast or northeast cor-	
ner of Horace Johnson's house, in top of rock almost covered with	
earth; bronze tablet stamped "1526"	1, 526. 266

Star, 1.5 miles north and east of, in southwest corner of road forks, on large rock in ditch; chiseled square marked "1368.9"	
Star, 2.8 miles north of, at forks of road to east, 50 feet north of	1, 500. 02
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 of 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 inter-	
section 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	04 -0
"1125"	
Forks of road near railroad crossing; point on boulder Star, 7 miles north and east of, 120 feet west of Tom Luby's house,	1, 521. 1
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	1, 100. 21
building, 2 feet above ground and 2½ feet south of northeast corner;	
bronze tablet stamped "1194"	1, 193, 580
Crossroads, point on rock at	
Churubusco, 1.3 miles east of, 10 feet north of center of road, at tele-	
phone 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"	
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"	1 000 00
Clinton Mills, 2 miles east of, 25 feet south of center of road, 40 feet	1, 000. 22
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	G
stamped "908"	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;	970 09
copper nail marked "880"Clinton Mills, 6 miles east and south of, on west side of road, near	879. 63
fence in front of G. Colligan's house, in top of stump; copper nail	
marked "955"	955. 40
	200. 20

	Feet.
Chazy River, bridge over North Branch of	826. 0
North Branch of Chazy River, surface of water, July 4, 1912	818. 0
CLAYTON QUADRANGLE,1	•
[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. 52
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. 54
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"	<b>356. 26</b>
From Clayton southeast to Lafargeville.	
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; chiseled 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 "326 Cape Vincent"	994 90*
tablet stamped 520 Cape vincent	324. 39

### 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"	Feet. 406. 866
CLYDE QUADRANGLE.	
[Latitude 43°-43° 15'; longitude 76° 45'-77°.]	
Primary leveling in 1898-99 by C. H. Semper and D. E. Baxter.	
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. 8 393. 7 387. 80 361. 7
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. 717 420. 20 395. 16
From North Rose southwest along highway to Lyons.	
Wayne Center, in southeast corner of schoolhouse on crossroads; bronze tablet stamped "438 Oswego 1899"Lyons, on west side of Broad Street, between Church and Pearl streets, in Dutch Reformed church; bronze tablet stamped "Os-	438. 942
wego 438 1899"Lyons, Water Street highway bridge over canal, east wing of tow-path abutment; chiseled square	438. 395 407. 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	

<sup>&</sup>lt;sup>1</sup> See Bull. 514, pp. 91-92, for other elevations.

•	·
Panama (North Clymer), in front of station; top of east rail	Feet.
Sherman, in front of station; top of north rail	
Summerdale, at highway crossing; top of east rail	
Mayville, in front of station; top of east rail	
Mayville, Chautauqua Lake; water surface	
	•
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"	
Findley Lake, Aug. 9, 1903; water surface	
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 inclosed by circle  Cohoes, on top of wall west side of mill race between locks 45 and 16 inches from northeast corner of small brick building between mill race and towpath; chiseled cross	. 194. 608 , l
Cohoes, lock 15, on east wall, south end of west lock; cross cut or	
second foot-iron clamp (U. S. Engineer Corps bench mark) Cohoes, lock 15, southwest corner of east wall of west lock; top o	
point of coping	
COLDEN 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, o large boulder; bronze tablet stamped "903 Albany 1903 Adj"Boston, 135 feet north of Iroquois Hotel, in grass plat at intersectio	_ 903. 048
	ц

#### 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 Feet.	
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 abut-	
ment; bronze tablet stamped "1272 A" 1, 271. 387	7
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	
From Colliersville along the Delaware & Hudson R. R. to Cooperstown.	
Milford, Methodist Church, northeast corner of foundation; alumi-	
num tablet stamped "1207 Albany"	1, 207. 200
let stamped "1266 Albany"	1, 266. 390
Hartwick Seminary, 1.4 miles north of, iron bridge over river, on cap- stone at northeast corner; chisel mark	
	1, 110.01

## 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 Phil-

773. 43
727. 139
674. 33
635. 151
639. 5

<sup>639. 5</sup> 

<sup>1</sup> See Bull. 514, p. 33, for other elevations.

From Boston Corners westward via Central New England Ry. to Gallatinville, thence north along highways via Glenco Mills to Claverack, thence northeast to Philmont.	
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"	Feet. 727. 139
Copake, Central New England bridge 80, on north end of west abutment; chiseled square	537. 69
of southwest abutment; bronze tablet stamped "Albany 508" Ancram, stone-arch highway bridge over Roeliff Janson Kill, on south end of west parapet; chiseled square	508. 350
Gallatinville, highway bridge over Roeliff Janson Kill, east wing of north abutment; aluminum tablet stamped "405 Albany"New Forge, on south end of west abutment of iron bridge over Clav-	405. 192
erack Creek; bronze tablet stamped "516 Albany" 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	515. 995
on west side of road, marked "U. S. B. M. 289" Glenco Mills, iron highway bridge over Taghkanick Creek, in west wing wall of south abutment; aluminum tablet stamped "261	•
Albany " Claverack, 0.5 mile southeast of, iron highway bridge, center pier, east end; bronze tablet stamped "156 Albany"	
CORNING QUADRANGLE.	•
[Latitude 42°-42° 15'; longitude 77°-77° 15'.]	
[Latitude 42°-42° 15'; longitude 77°-77° 15'.]  Precise leveling in 1898 by E. L. McNair.	
Precise leveling in 1898 by E. L. McNair.  From Addison east along Erie R. B. to East Corning.  Addison, in front of Erie station; top of north rail, westbound track.  Addison, 0.4 mile east of Erie station and 750 feet northwest of tracks, Union school building, at right of main entrance; aluminum	
Precise leveling in 1898 by E. L. McNair.  From Addison east along Eric R. R. to East Corning.  Addison, in front of Eric station; top of north rail, westbound track.  Addison, 0.4 mile east of Eric station and 750 feet northwest of tracks, Union school building, at right of main entrance; aluminum tablet stamped "1021 D"	1, 022. 554
Precise leveling in 1898 by E. L. McNair.  From Addison east along Erie R. B. to East Corning.  Addison, in front of Erie station; top of north rail, westbound track.  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. 554 965. 2
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. 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. 554 965. 2 936. 195
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. 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. 554 965. 2 936. 195
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. 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. 554 965. 2 936. 195 938. 4
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. 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. 554 965. 2 936. 195 938. 4 936. 3
Precise leveling in 1898 by E. L. McNair.  From Addison east along Erie R. B. to East Corning.  Addison, in front of Erie station; top of north rail, westbound track. 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. 554 965. 2 936. 195 938. 4 936. 3
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.  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. 554 965. 2 936. 195 938. 4 936. 3 936. 759 909. 3

Savona, 1.8 miles south of; top of boulder on east side of track, 1,200 feet north of crossing	Feet.
Campbell, 700 feet north of station, on east end of bridge seat, south	2, 000. 02
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 tele-	
phone 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 plat-	
form, 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"_	Feet. 1, 008, 504
East Campbell, in northeast corner of road fork; nail in base of corner fence post, marked "1032.6 B. M."East Campbell, 0.8 mile northeast of, in northeast corner of road	1, 032. 67
fork; chiseled square on top of limestone rock, marked "1094.2 B. M."	
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"Hornby, 2.6 miles west of, in northwest corner of road fork, 50 feet	1, 197. 107
east of schoolhouse; chiseled square in top of highway guard stone, marked "1270.2 B. M."	1, 270. 25
highway; nail in root of maple tree, marked "1494.5 B. M." Hornby, southwest corner of foundation of town hall, in west face;	1, 494. 56
bronze tablet stamped "1516"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." Hornby, 2.1 miles south of, in northwest corner of road fork; nail in	
base of mailbox post, marked "1626.6 B. M."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"_Painted Post, 3 miles northeast of, in northeast corner of road fork; nail in base of telephone pole, marked "1172.7 B. M."	
Painted Post, 2.6 miles northeast of, 20 feet west of three corners; nail in top of maple stump, marked "1097.8 B. M."	
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, south 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 Addison, 1.8 miles north of, on road to Campbell, in top of concrete	1, 312. 30
carriage step of Mrs. Mary Audinwood's home; bronze tabletAddison, 2.7 miles north of, along road to Campbell, on bridge over	1, 312. 299
Goodhue Brook, on top of west girder, most northeasterly bolt Phillips School, 1.5 miles northeast of, along road to Campbell, in rail-	1, 252. 32
road rail in southwest corner of culvert; chiseled cross Campbell, 4 miles southwest of, along road to Addison, copper nail	
in root of old tree stump on west side of road Campbell, 4 miles southwest of, along road to Addison, in stone step	
before A. T. Lewis's home; bronze tablet stamped "1562"Campbell, 1 mile southwest of, along State road toward Thurston, 300 feet east of road forks; north side of road; chiscled square on	1, 561, 757
concrete culvertCampbell, 300 feet west of Erie Railroad station, in northwest corner	1, 069. 55
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	nor	th of	Lindl	ey.				

Corning, at corner of Erie and Cedar streets, in foundation stone under water table, at right of Cedar Street entrance; aluminum tablet stamped "935"	Feet. 936. 759
cemetery, on street curb at base of telephone pole; chiseled square marked "921.2 B. M."	921. 21
of north concrete abutment to undergrade bridge; chiseled square marked "911.9 B. M."	911. 91
feet south of State highway, in base of maple stump; nail marked "971.8 B. M."	971. 82
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, 2.1 miles west of, at three corners, in top of center post of guard fence; nail marked "1536.6 B. M."	1, 536. 51
of east abutment to highway bridge over small stream; bronze tablet stamped "1313"	
of foundation to church, in west face; chiseled cross marked "1277.8 B. M."	1, 277. 74
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).	987. 42
Lindley, in south end of west abutment to highway bridge over Tioga River; bronze tablet stamped "986"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 "1700.5 B. M."	1, 700. 482
Liberty Pole School, in northeast corner of crossroads, in top of stump 1 foot above ground; nail marked "1797.1 B. M."	1, 797. 094

35 SPIRIT LEVELING IN NEW YORK, 1890-1905, 1912-1916	•
Liberty Pole School, 1.5 miles west of, northeast corner of foundation to Nichols School, in east face; bronze tablet stamped "1706"	
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"_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"	
CORTLAND QUADRANGLE.	
[Latitude 42° 30'-42° 45'; longitude 76°-76° 15']	
Primary leveling in 1900 by W. E. Green.	•
From Messengerville northwest along the Delaware, Lackawanna & Western R. R. to Cortland.	i.
Blodgett Mills, at road crossing near station; top of railBlodgett Mills, 1,000 feet north of station, on west side of track, in retaining wall; bronze tablet stamped "1086 Albany"	
Frem 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; 247. 7 1, 311. 4
From Cortland northeast along the Lehigh Valley R. R. to Truxton.	
Lorings (flag station), at road crossing; top of rail  East River (flag station), at road crossing; top of rail  East Homer, in front of station; top of rail  East Homer, waiting room at station; doorsill  Truxton, waiting room of station; doorsill  Truxton, in front of station; top of rail  Truxton, corner of Methodist Episcopal Church; bronze tablet stamped "1159 Albany"	1, 132. 8 1, 132. 3 1, 134. 29 1, 156. 78 1, 154. 7
From Ithaca Junction north along the Delaware, Lackawanna & Western R. R. to Tully.	
Cortland, waiting room at station; doorsill  Cortland, State Normal School building, north side of east entrance; aluminum tablet stamped "1122 Albany"	
Homer, James Street crossing; top of rail	
	1 100 00

Homer, waiting room at station; doorsill\_\_\_\_\_\_\_\_1, 132.82 Little York, at road crossing; top of rail\_\_\_\_\_\_\_\_1, 162.0

	<b>-</b> .
Preble, at road crossing; top of rail	Feet. 1, 188. 3
Preble, Presbyterian Church, in southeast corner of wall; bronze tablet stamped "1212 Albany"	<b>1</b> , 212. 554
From Cortland along the Lehigh Valley R. R. to McLean.	
Cortland, Lehigh Valley station; waiting-room doorsill McLean, E. G. Galloup's store, on east side of wall; chiseled cross	
CONSACKIE QUADRANGLE.1	
[Latitude 42° 15'-42° 80'; longitude 73° 45'-74°.]	
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. Schlachter.	
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"Newton Falls, 1.5 miles north of, along log railroad, on rock on west	1, 457. 685
margin of track; chiseled circle	·
Newton Falls, 1.3 miles south of, 609 feet north of road crossing on west side of concrete culvert; chiseled square	
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"Benson Mines, 1 mile southeast of, on Wanakena Highway on west side, 15 feet from road, on large boulder; chiseled square marked	1, 405. 925
"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"	
Benson Mines, 3 miles southeast of, on Wanakena Highway, on east side of road, in ledge of rock; bronze tablet stamped "1676"Benson Mines, 4 miles southeast of, on Wanakena Highway, in center of road forks, on boulder; chiseled square marked "t. b. m. 1695"	1, 676. 368
1000	1, 080. 10

<sup>1</sup> 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 Postem Lodge, 35 feet northeast of the northeast cor-
ner 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, 19161, 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.
1835. " 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 Partice 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
"Prim. Trav. Sta. No. 13, 1916, Elev. 1806" 1, 805. 876

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, 896.	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		4.0
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; alumi-		
num tablet stamped "Prim. Trav. Sta. No. 14, 1916, 1789 Albany"		~~~
(Bull. 281, p. 40)	1, 787	. 530
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 "1383"	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	8. 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"		2. 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"		l. 36
Newton Falls, 3.5 miles east of, in old road leading to river, in root;		
copper nail marked "t. b. m. 1429.1"		9. 09
Newton Falls, 4.5 miles east of, on south side of road, in large boulder;		
bronze tablet stamped "1433"	1, 43	3. 351
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, 43	9. 73
Cooks Corners, at southeast corner of cement porch to Cook's Hotel;		
bronze tablet stamped "Prim. Trav. Sta. No. 2, 1916, 1481"	1, 48	0. 519
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"		4.82
Newton Falls, 7.6 miles east of, 300 feet southwest of old dam, on		
north side of road, in large boulder; chiseled square marked "t. b.		
m. 1445.3 "		5. 32
Newton Falls, 8.7 miles east of, at foot of hill and bend of road, in		
	. 1, 46	5. 66
Cranberry Lake, at northeast corner of bridge over Cranberry Lake		
outlet, near dam; chiseled square marked "t. b. m. 1472.4"		2. 43
Cranberry Lake, at top of north end of dam at outlet, on wall;		^ ==
chiseled square marked "t. b. m. 1488.5"		<b>გ. ეე</b>
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		n 590

Charles W. J. et al. Dec. J. consultant by stations, top of well associated	
Cranberry Lake, at railroad crossing by station; top of rail marked "t. b. m. 1488.3"	
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"	
Cranberry Lake, 0.9 mile east of, 800 feet east of Y on south side or railroad, in large rock; chiseled square marked "t. b. m. 1,503.0"  Lines station, 60 feet east of, 500 feet west of trail, on south side of	1, 503. 04
track, in boulder; chiseled square marked "t. b. m. 1440.5"	
DAMASCUS QUADRANGLE.	
[Latitude 41° 30'-41° 45'; longitude 75°-75° 15'.]	
Precise leveling in 1900 by C. H. Semper.	
From Cochecton south along Eric 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"	
Cochecton, in front of station, northbound track; top of rail	
Narrowsburg, in front of station, northbound track; top of rail	
Narrowsburg, 600 feet west of station, 100 feet west of east end of	
rock cut, north side; bronze tablet stamped "718 Albany 1900"	
Tusten, in front of station, northbound track; top of rall	_ 684.6
DANNEMORA QUADRANGLE.	
[Latitude 44° 30'-44° 45'; longitude 73° 80'-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	760.09
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"	760. 09 972. 95
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"	760. 09 972. 95
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"	760. 09 972. 95
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or	760. 09 972. 95 1, 202. 097
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked	760. 09 972. 95 1, 202. 097
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter face	760. 09 972. 95 1, 202. 097
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter factory; aluminum tablet stamped "1158"	760. 09 972. 95 1, 202. 097 1, 461. 76 1, 157. 086
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter factory; aluminum tablet stamped "1158"  Disco, in front of red schoolhouse, 1,200 feet north of post office	760. 09 972. 95 1, 202. 097 1, 461. 76 1, 157. 086
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter factory; aluminum tablet stamped "1158"  Disco, in front of red schoolhouse, 1,200 feet north of post office square cut in top of stone, marked "1218.7"	760. 09 972. 95 1, 202. 097 1, 461. 76 1, 157. 086
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter factory; aluminum tablet stamped "1158"  Disco, in front of red schoolhouse, 1,200 feet north of post office	760. 09 972. 95 1, 202. 097 1, 461. 76 1, 157. 086
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter factory; aluminum tablet stamped "1158"  Disco, in front of red schoolhouse, 1,200 feet north of post office square cut in top of stone, marked "1218.7"  Disco, 1 mile south of post office, at road corner, in rock opposite	760. 09 972. 95 1, 202. 097 1, 461. 76 1, 157. 086 1, 217. 61 1, 130. 918
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  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"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter fact tory; aluminum tablet stamped "1158"  Disco, in front of red schoolhouse, 1,200 feet north of post office square cut in top of stone, marked "1218.7"  Disco, 1 mile south of post office, at road corner, in rock opposite house; bronze tablet stamped "1132"  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	760. 09 972. 95 1, 202. 097 1, 461. 76 1, 157. 086 1, 217. 61 1, 130. 918
Saranac, 1.9 miles south of, at road corner; square cut in stone marked "974.1"  Saranac, 2.8 miles south of, at district 1 school, in stone 30 feer from school and 20 feet from road; aluminum tablet stamped "1203"  Redford, about 2.5 miles east of, 50 feet north of road corner, or road to Peasleeville and Saranac; drill hole in top of rock, marked "1463.0"  Disco, on stone 100 feet west of road corner and opposite butter factory; aluminum tablet stamped "1158"  Disco, in front of red schoolhouse, 1,200 feet north of post office square cut in top of stone, marked "1218.7"  Disco, 1 mile south of post office, at road corner, in rock opposite house; bronze tablet stamped "1132"  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.	760. 09 972. 95 1, 202. 097 1, 461. 76 1, 157. 086 1, 217. 61 1, 130. 918

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 41351?	Feet.
tablet stamped "1351"	
Dannemora, 1.5 miles east of, on concrete culvert top, 10 feet from center line of location of track; aluminum tablet stamped "1188"	
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 con-	
crete culvert; aluminum tablet stamped "294" Peru, 4.9 miles north of, where road to Peru crosses road connecting Schuyler Falls and South Plattsburg (Salmon River station), near	293. 782
telephone pole; point on stone, marked "284.3"————————————————————————————————————	284. 11
" 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"Peru, 0.9 mile east of, on culvert top on State highway about 200	320. 31
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 "346.2"	346. 1
Peru, 1.5 miles south of, 7 feet west of track, on stone abutment of cattle pass; aluminum tablet stamped "378"	378. 236
Harkness, at crossing near Harkness station; top of south rail of main track, marked "374.1"	<b>374. 1</b>
Harkness, 0.6 mile west of, 10 feet north of Peasleeville road, 130 <sub>6</sub> 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 Peasleeville road, and 1,200 feet north of residence of Thomas Boyd, in boulder; aluminum tablet stamped "556"	
Harkness, 4.2 miles west of, on road to Peasleeville, at road corner near residence of Lawrence Clair, in grass triangle; square cut in	555. 845
small stone, marked "722.0"  Harkness, 5.2 miles west of, on road to Peasleeville, at road corner;	722. 06
square cut on stone, marked "1105.7"	1, 105. 76
Peasleeville, 4.2 miles south of, at road corner on Harkness road; point on small stone, marked "1041.4"	1, 041. 51
feet west of Peasleeville road, opposite road to Peru, in small	040 222

Peasleeville, 2.2 miles south of, at road corner, on Harkness road, opposite telephone pole; point on stone. marked "855.4"	Feet. 855. 54 725. 70 668. 6 660. 4 691. 89 754. 28 723. 97
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
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 railColliers, 700 feet east of, bridge 54 across Susquehanna River, northeast corner of coping stone of east abutment; bronze tablet stamped "1119 A"Cooperstown Junction, in front of station; top of rail	1, 118. 493
Leveling by Karl E. Schlachter in 1915.	
From point 5 miles northwest of Fraser along highway to Fraser, thence north- east along New York, Ontario & Western Ry. to Delhi.	<i>‡</i>
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

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 Marris 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	005 550
stamped "898 Albany 1903"	897. 753
aluminum tablet stamped "926 Albany 1903" (moved (?)) East Aurora, 1.5 miles west of, iron bridge across Cazenovia Creek;	926. 235
end of west abutmentOrchard Park, southeast corner of Briggs Bros.' block, in brick foun-	832. 61
dation; aluminum tablet 1 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 Spring Brook, railroad crossing; top of rail	814. 2 748. 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	<b>791</b> . <b>0</b>
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

<sup>&</sup>lt;sup>1</sup>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.

<sup>104787°—</sup>Bull, 671—18——5

#### DEPOSIT QUADRANGLE.

		longitude		

#### Precise leveling in 1901 by D. H. Baldwin.

Near Apex on New York, Ontario & Western Ry.	
	Feet.
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

# 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. 36 1, 162. 7
Dryden, Southworth Library building, in foundation course of masonry south front of structure; aluminum tablet stamped "A 1090"_	
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. 43
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.	007 77
bench mark 51)	935. 55
Valley R. R. bench mark 502) East Ithaca, opposite south line of station; top of west rail, main	866. 88
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	E09 020
corner; aluminum tablet stamped "598 Dunkirk 1899" Dunkirk, Nelson Block, extreme northwest corner of, on top of water	598. 936
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 Waites Crossing, 0.70 mile south of, southeast corner of cattle pass	625. 4
	604 10
bridge 195, at east corner of parapet stone; chiseled square Dunkirk, in front of Lake Shore & Michigan Southern Ry. station;	624. 10
	598. 9
Dunkirk, in front of Lake Shore & Michigan Southern Ry. station; top of rail  Primary leveling in 1898 by E. L. Faison.	598. 9
Dunkirk, in front of Lake Shore & Michigan Southern Ry. station; top of rail	598. 9

Ry.; top of rail	Feet. 594. 6
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.	001.01
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	1 212 0
Stockton, 500 feet west of Chriss's Hotel, east side of stone founda-	1, 012. 0
tion 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 abut-	
ment; bronze tablet stamped "1324 D" (reset)	
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	1, 300, 610
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	
Hartfield; top of station platform	
Hartfield; top of station platform Wooglin, in front of station; top of south rail	
Hartfield; top of station platform	
Hartfield; top of station platform	1, 350. 2 774. 75
Hartfield; top of station platform	1, 350. 2
Hartfield; top of station platform	1, 350. 2 774. 75
Hartfield; top of station platform	1, 350. 2 774. 75 745. 1
Hartfield; top of station platform	1, 350. 2 774. 75
Hartfield; top of station platform	1, 350. 2 774. 75 745. 1
Hartfield; top of station platform	1, 350. 2 774. 75 745. 1 668. 518
Hartfield; top of station platform  Wooglin, in front of station; top of south rail  From West Portland northeast via Brocton to Fredonia.  West Portland, on northeast corner of second step of red brick church; cross mark  Brocton, at crossing of Western New York & Pennsylvania Ry.; top of rail  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"  Fredonia, south entrance to clothing store in Columbia Hotel; top of south stone step  EDEN QUADRANGLE.	1, 350. 2 774. 75 745. 1 668. 518
Hartfield; top of station platform  Wooglin, in front of station; top of south rail  From West Portland northeast via Brocton to Fredonia.  West Portland, on northeast corner of second step of red brick church; cross mark  Brocton, at crossing of Western New York & Pennsylvania Ry.; top of rail  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"  Fredonia, south entrance to clothing store in Columbia Hotel; top of south stone step	1, 350. 2 774. 75 745. 1 668. 518
Hartfield; top of station platform	1, 350. 2 774. 75 745. 1 668. 518
Hartfield; top of station platform	1, 350. 2 774. 75 745. 1 668. 518
Hartfield; top of station platform	1, 350. 2 774. 75 745. 1 668. 518
Hartfield; top of station platform	1, 350. 2 774. 75 745. 1 668. 518
Hartfield; top of station platform	1, 350. 2  774. 75  745. 1  668. 518  728. 52
Hartfield; top of station platform	1, 350. 2  774. 75  745. 1  668. 518  728. 52  651. 6  665. 55
Hartfield; top of station platform	1, 350. 2  774. 75  745. 1  668. 518  728. 52

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"	Feet. 723. 807 704. 6
Primary leveling in 1904 by I. W. Pettit, and in 1905 by R. P. Thompson.	
From Blaisdell 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"Water Valley, Erie R. R.; top of railEden Valley station, 300 feet east of Erie R. R. station, in northwest corner of foundation of Albert Dagle's house; bronze tablet stamped	825. 555 790. 6
"792 Albany Adj 1903" Eden Center, northeast corner of foundation of schoolhouse; bronze	
tablet stamped "Albany 828 Adj 1903"	
North Collins, Erie R. R. station, in east face of southeast corner; bronze tablet stamped "847 Adj 1903"	
Lawton, in west face of foundation wall of E. H. Lawton & Son's store; bronze tablet stamped "826 Adj 1903"	825. 640
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" Woodwards Hollow, in east face of foundation wall of F. J. Ryther's	1, 075. 137
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 statement of the control of the contro	
tion No. 134) stamped "1389 Adj 1903" 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
tablet stamped "451 Albany 1903"	451. 661

<sup>1</sup> 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  722. 782  713. 53  598. 7  641. 2  591. 93
Dwaarkill (single-spur line).	
Circleville, 150 feet south of station, at highway crossing; top of east rail	621. 8 508. 9 517. 840 459. 4 396. 919 351. 684
[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"Big Flats, in front of Erie station; top of south rail, westbound track	900. 815 910. 8
Horseheads, in front of Erie station, westbound track; top of north rail	903. 4
wanna R. R. bridge at crossing of Northern Central Ry., 50 feet south of center of northbound track of Northern Central Ry.;	902. 111
wanna 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)Horseheads, Northern Central station; northeast corner of stone doorsill of men's waiting room	900. 113
wanna 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)Horseheads, Northern Central station; northeast corner of stone doorsill of men's waiting room	

### Precise leveling in 1899 by C. H. Semper.

From Elmira south along Northern Central Ry. to Williamsport, Pa.	Feet.
Southport, in front of station; top of east rail	854. 3
Elmira, 7 miles south of, creek and cattle-pass culvert, west side of	
railroad, in wall; bronze tablet stamped "1067 Harrisburg 1899"_	1, 068. 338
State boundary (New York-Pennsylvania) line post, opposite; top of rail	1, 096. 7
Primary leveling in 1898 by W. W. Gilbert.	12
From Horseheads along the Northern Central Ry. to Watkins, thence to Burdett.	
Horseheads, Lehigh Valley R. R., opposite southeast line of Horse-	
heads station; top of rail, main track	890. 8
Horseheads, men's waiting room of Northern Central station; north-	000 44
west corner of stone doorsillPine Valley, opposite south line of Pine Valley station; top of rail	900. 11
rine variey, opposite south line of rine variey station; top of ran-	891. 0
FONDA QUADRANGLE,1	
[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)	302. 785
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	302. 32
Fultonville, bridge over Mohawk River, on top of coping of south abutment; chiseled square	294. 04
Fonda County courthouse, in corner stone of fourth course of stones	
from top of foundation at northwest corner; bronze tablet stamped	
" 294 "	293. <b>764</b>
Cayadutta Creek, railroad bridge over, in northeast corner of coping stone, southeast end of north abutment; chiseled square	350. 73
Sammonsville, station of the Fonda, Johnstown & Gloversville R. R.,	
in large stone at corner of foundation; chiseled square	587. 24
FRANKLINVILLE QUADRANGLE.	
[Latitude 42° 15'-42° 30'; longitude 78° 15'-78° 30'.]	•
Primary leveling in 1903 by George Seidel.	
From Caneadea west along public road to Rushford (on spur line).	
Rushford, northeast corner of foundation wall of schoolhouse; aluminum tablet stamped "1517 Albany 1903"	1, 517. 343

<sup>&</sup>lt;sup>1</sup> See Bull. 514, p. 69, for other elevations.

#### FULTON QUADRANGLE.1

[Latitude 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	Fee <b>t.</b>
"302 A"	303. 344
Minetto, 0.07 mile south of, Oswego Canal, between cinchers of mid- dle gate; copper bolt (canal bench mark at lock 12)	308, 54
Minetto, 1.3 miles south of, south wing of west abutment, second step;	000.01
copper bolt (canal bench mark at bridge)	311. 28
Minetto, 3.0 miles south of, Oswego Canal, between cinchers of mid-	
dle 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	020. 10
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	525. V25
cinchers; copper bolt (Oswego Canal bench mark)	<b>3</b> 37. 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	J11. J10
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, lock 7, in middle hollow quoin between cinches; copper bolt (canal bench mark)	050 50
Fulton, 5.5 miles south of, Oswego Canal, unused lock, in lower	353. 52
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	<b>3</b> 22. <b>1</b>

## From Fulton southwest to Bowens Corners.

Bowens Corners, south door of brick schoolhouse, district 5, on stone	Feet. 371. 84 449. 603
GENEVA QUADRANGLE.	
[Latitude 42° 45'-43°; longitude 76° 45'-77°.]	.'.
Primary leveling in 1899 by C. H. Semper.	
From Geneva north to Lyons.	
Mitchell (West Junius), in north face wall of post office at railroad	478. 65 492. 524
From Geneva south along Lehigh Valley R. R. to Kendaia.	٠
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	481. 524
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	465. 52
Varick, 1.8 miles south of, in northeast foundation stone of Lehigh Valley water tank, on west side of road; bronze tablet stamped	523. 09 563. 385
From Mays Point south to Fayette.	
Seneca Falls, in south face wall of Mynderse Academy, North Park	396. 642 466. 066
Fayette post office, in northwest corner of Dutch Reformed Church;	613. 223
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 Bap-	821. 83
Farmer, 0.7 mile south of, in north wall of cattle pass, east side; top	912. 420 843. 88
Farmer, 2.4 miles south of, 600 feet north of highway, by fence west of	849. 18

Covert, 1.4 miles south of, on west side of railroad, set in rock; top of iron pin stamped "320" (L. V.)	Feet. 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"	
Trumansburg, first crossing west of station, set in rock on north side of track; iron pin (Lehigh Valley bench mark 318)Willow Creek, 3 miles south of; top of iron plug set in boulder	874. 98
(L. V. B. M. 311)	588. 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" Venice Center, north side of hotel building, in foundation stone;	838. 591
aluminum tablet stamped "998 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 Prattsyille.	
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	·
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south	1, 181. 18
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	1, 181. 18
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	1, 181. 18 1, 164. 638
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	1, 181. 18 1, 164. 638
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	1, 181. 18 1, 164. 638 1, 517. 884
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	1, 181. 18 1, 164. 638 1, 517. 884 1, 151. 04
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	1, 181. 18 1, 164. 638 1, 517. 884 1, 151. 04
Prattsville, 1 mile east of, east abutment of Red Kill bridge, south end, top stone; chisel mark	1, 181. 18 1, 164. 638 1, 517. 884 1, 151. 04 1, 115. 65

## From Gilboa east to Manorkill.

Strykersville (West Conesville post office), bridge 40 feet west of post office, on southwest abutment; chisel mark	1, 260. 12
Manorkill, white church opposite post office, southeast corner; bronze tablet stamped "Albany 1515"	1, 515. 295
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"	
From Franklinton south to Livingstonville.	
Livingstonville, in northwest corner of Methodist Church; bronze tablet stamped "Albany 1077"	1, 077. 310
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
Fort Edward, lock 15, southeast anchor; chiseled cross in circle (canal bench mark 79)	
Fort Edward, high school building, front entrance, in stone pilaster at left side; bronze tablet stamped "145 A"	
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"Benson Center Corners, 17 feet westerly from bars in wall, in field on farm of Ludwick Politch, on large boulder; aluminum tablet	
stamped "1288 Albany"	·
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

## 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"	Feet. 652. 008 749. 62 798. 136 813. 1
Mayfield, platform at railroad station 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."	743. 0 752. 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 Eric 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 Middletown, in front of station, westbound track; top of rail Middletown, Clemson Bros. saw shop, in front face of brickwork, left	688. 2 562. 1
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 railStony Ford, in front of station; top of rail	419. 0
Campbell Hall, Campbell Hall Hotel, south face of brickwork; bronze tablet stamped "408 Albany 1900"	372. 4 409. 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"_Goshen, in foundation wall of Episcopal Church, north end of west	389. 600
face; aluminum tablet stamped "439 Albany 1903 Adj" Chester, in foundation wall of Methodist Church, center of south face; bronze tablet stamped "477 Albany 1903 Adj" Greycourt, in face of north abutment of railroad bridge over high-	438. 794 476. 776
way; bronze tablet stamped "447 Albany" From Greycourt southwest along the Lehigh & Hudson River Ry. to Warwick, thence west along highway to Pine Island.	448. 282
Lake station, in foundation wall of the residence of J. Halbut, center	
of east face; bronze tablet stamped "554 Albany 1903 Adj" Warwick, in foundation wall of Methodist Church, north end of east	553, 710
face; aluminum tablet stamped "538 Albany Adj"  Edenville, in stone residence of J. E. Hotaling, east end of south face, 24 inches above ground; aluminum tablet stamped "473 Albany 1903 Adj"	537. 903 473. 217
1000 1101	110, 411

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"	Feet. 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 Arj"	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. 26
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. <b>51</b>
Gouverneur, 1.08 miles northeast of station, on concrete culvert,	400.00
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
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,	455 05
on east side of concrete culvert; chiseled square Richville, 0.91 mile southwest of, on granite boulder, 50 feet east	455. 95
of track; chiseled square	437. 76
Richville, 280 feet southwest of station, 60 feet north of and 35 feet west of center of main track at road crossing, in front yard of house owned by W. K. Premo, at foot of locust tree, in granite	
boulder; aluminum tablet stamped "P. T. Sta. 7, 1912, 450"	449. 758
Richville, in front of station; top of rail	445. 6
siding, in east side of concrete culvert; chiseled square	445. 89
Richville, 2.37 miles northeast of, 380 feet south of milepost S-118,	
on granite boulder at foot of telegraph pole, 40 feet west of track;	465 20
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;	Feet.
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 sup-	
port of milepost painted "S-120"	<b>4</b> 26. 5 <b>2</b>
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,	400 500
10 feet south of road; bronze tablet stamped "424"	423. 502
De Kalb, 1.95 miles southeast of, at road fork, on granite rock;	400. 12
chiseled square	400. 12
way, in granite boulder; bronze tablet stamped "376"	376. 090
	010.000
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;	001 01
chiseled square painted "391"North Gouverneur, 2.05 miles north of, on Maple Ridge road, 420 feet	391. 21
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	000.00
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 Whit-	
more'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	400 110
stamped "423"Gouverneur, 2.38 miles north of, on Rock Island road, 100 feet south	423. 118
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	101.00
Island road outside corporation, 6 feet east of road, on granite	
boulder, chiseled square painted "464.5"	464, 40

From Gouverneur east along New York Central & Hudson River R. R. to Edwards, thence north along highway to point on railroad 5.4 miles northeast of Richville.	
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"	Feet. 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"Hailesboro, top of rail in front of station	440. 51 472. 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" Emeryville, 0.27 mile west of station, on middle of south side of	567. 553
stone cow pass; chiseled square  Emeryville, in front of station; top of rail	583. 42 606. 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 railTalcville, 0.33 mile east of station, on boulder 10 feet north of track;	647. 3
chiseled squareEdwards, 0.65 mile west of station, in railroad bridge over West Branch of Oswegatchie River, in south side of west abutment;	675. 77
bronze tablet stamped "653"	653. 393
Edwards, in front of station; top of railEdwards, at corner opposite post office, on concrete sidewalk, at foot	664. 5
of telephone post; chiseled square painted "666.5" Edwards, 4.55 miles north of, 65 feet north of old road to west to	666. 47
Trout Lake, 6 feet east of road, on granite boulder; chiseled square_ 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;	790. 15
aluminum tablet stamped "P. T. No. 4, N. Y., 1912, 707" Trout Lake, 0.93 mile northeast of schoolhouse at corner, 65 feet south	706. 710
of road to east, on east side of culvert; chiseled square Hermon, 1.03 miles west of, on bridge over Tanner Creek, east end;	693. 13
copper nail and washer in stringer Hermon, 2.03 miles west of, 220 feet east of Bell schoolhouse corner,	474. 26
10 feet south of road, on granite rock; chiseled square 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	465. 59
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.
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Timosy leveling in 1000 by W. D. Greek that in 1002 by C. W. Matrian	
From Chenango Forks northeast along the Delaware, Lackawanna & Western R. R. to Greene.	Feet.
Willard, in front of station; top of rail	901. 0
Greene, Main street crossing; top of rail	916. 1
	910. 1
Greene, town hall, in foundation stone under middle column; bronze	000 010
tablet stamped "923 Albany"	923, 910
Greene, waiting room at station; doorsill	917. 25
From Chenango Forks northwest along Delaware, Lackawanna & Western R. R. to Lisle.	
Barker, road crossing near station; top of rail	937. 6
Barker, northwest corner of abutment of highway bridge; bronze	000
tablet stamped "934 Albany"	934. 192
	956. 26
Whitney Point, waiting room at station; doorsill	
Whitney Point, at road crossing north of station; top of rail	955. 9
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 Al-	
bany "	1, 418. 666
Smithville Flats, in stone foundation of Presbyterian Church, 1 foot	
west of southeast corner; bronze tablet stamped " 1033 Albany	
1902 ''	1, 033. 997
From Lisle north along highway to Cincinnatus.	
Willett, southeast corner of foundation wall of Hotel Ingall; branze tablet stamped "1039 Albany"	1, 039. 527
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 in-	
side fence; iron post stamped "B 337"	337, 707
Hilton, house of Dr. J. J. Williams, in foundation wall under bay	001.101
window; bronze tablet stamped "B 284"	285, 259
window, bronze tubier etampou 2 201	200. 200
HAMMOND QUADRANGLE.1	
[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"	465. 577

<sup>1</sup> 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. 64 466. 76 448. 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"	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"	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"	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"Bradford, in top of west end of south abutment of bridge; bronze tablet stamped "1100 Oswego 1899"Tyrone, in west end of south wall of highway bridge at gristmill; bronze tablet stamped "1155 Oswego 1899"Altay, 1,000 feet west of, in top of north wing of east abutment of highway bridge; bronze tablet stamped "1213 Oswego 1899"	1, 100. 442 1, 155. 231
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"	1, 212. 778
Campbell, 700 feet north of station, south wall of railroad girder bridge, on east end of bridge seat; chisel mark	949. 16
· Near Monterey.	
Coopers Plains, 6 miles north of, southwest corner of bridge; nall in chord	•
104787°—Bull. 671—18——6	

Monterey, 1.5 miles south of, southwest corner of iron bridge; top of iron support	
Monterey, 60 feet northwest of iron bridge, in boulder; bronze tablet stamped "1212 Oswego 1899"	1, 212. 778
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 Lisle, southeast corner of schoolhouse 1; bronze tablet stamped "975 Albany" Killawog, waiting room at station; doorsill	972. 4 975. 166 1, 001. 03
Marathon, Main Street crossing; top of rail	
Marathon, waiting room at station; top of rail  Marathon, 1.5 feet from northwest corner of Peck Memorial Library, in water table; bronze tablet stamped "1019 Albany"  Messengerville, at road crossing near milk station; top of rail  Messengerville, road crossing near station; top of rail	1, 019. 821 1, 055. 7
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"	<b>1</b> , 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 Berkshire, Methodist Episcopal Church, north side of west or front entrance; bronze tablet stamped "1055 A"	
Berkshire, 0.2 mile north of, at crossing near milk station; top of	
Richford, waiting room at station; doorsill	
Richford, at road crossing near station; top of railRichford, 0.1 mile north of Lehigh Valley R. R. station; bench mark	
under water tank, on southwest foundation stone  Harford Mills, waiting room at station; doorsill	
Harford, waiting room at station; doorsillHarford, in north front of Harford Methodist Episcopal Church;	1, 185. 62
aluminum tablet stamped "1196 A"	1, 195. 861
HARLEM QUADRANGLE. <sup>1</sup> [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 disstroyed 1909)	14. 135
1 See Bull, 514, pp. 41-42, for other elevations.	

<sup>1</sup> See Bull, 514, pp. 41-42, for other elevations.

#### HARTWICK QUADRANGLE,1

[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; Feet. 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
From Mineola southeast via Garden City and Hempstead to Merrick.	
Mineola, in coping west end north pier of railroad water tank; bronze tablet stamped "105 W. P." (reported destroyed 1909)  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."	105. 291 18. 834
From Merrick west via Freeport to Rockville, thence north to Mineola.	
Rockville Center, northeast corner of Village Avenue and Observer Street, in stone water table of brick building north of door be-	

tween 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.

[The error distributed in this line is excessive.]

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 table	t
stamped "1778 Albany"	1, 777. 526
North Osceola (Clemens Corners), school 4, Osceola Township, in	1 .
northeast corner of foundation wall; aluminum tablet stamped	l
"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 "1033 Albany"\_\_\_\_\_\_\_1,032.970

<sup>1</sup> 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 Cul-		Feet.
pepper 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 sta-	
tion, top of large boulder; aluminum tablet stamped "1561 Albany	
1901 "	1, 561. 901
South Gilboa station, under overhead bridge; top of west rail	
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 1962 by D. H. Baldwin.

#### Near Honeoge 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

538.8

### From line continued east along Lehigh Valley R. R.

Genesee V	alley	Junction,	grade	crossing	$\mathbf{of}$	Erie	and	Lehigh	Valley	
railroad	s; top	of rail								

## 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.]	
	Feet.
West Bloomfield, in front of station; top of rail	776. 3
Honeoye Falls, Church Street crossing; top of rail	
tablet stamped "657 Rochester 1901" West Rush, 200 feet south of station, west face of hotel, in foundation	656. 414
stone; bronze tablet stamped "571 Rochester 1901"	
West Rush, 100 feet west of station, road crossing; top of rail	
Genesee Valley Junction (Rush Junction), grade crossing of the New	<b>~</b>
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 "849 Rochester 1901"	849. 065
Livonia Center, Lehigh Valley R. R. crossing, near station; top of	975. 9
Livonia Center, Catholic Church, front face of southwest corner;	0.0.0
bronze tablet stamped "1093 Rochester 1901"	1, 092, 415
Livonia, Main Street crossing of Erie R. R.; top of rail	
South Livonia, road crossing near station; top of rail	
	,
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
Hemlock, in front of station; top of railHoneove, Congregational Church on Main Street, in west face; bronze	907. 8
Honeoye, Congregational Church on Main Street, in west face; bronze	907. 8
the control of the co	907. 8
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur	
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur	
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)	
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)	
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
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
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  HORNELL QUADRANGLE.	843. 433
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  HORNELL QUADRANGLE.  [Latitude 42° 15'-42° 30'; longitude 77° 30'-77° 45'.]	843. 433
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  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.	843. 433 911. 607
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens Crossing along the Eric R. R. to Livonia.  South Lima, near southeast corner of cold-storage building at railroad station; bronze tablet stamped "912 Rochester 1901"  HORNELL QUADRANGLE.  [Latitude 42° 15'-42° 30'; longitude 77° 30'-77° 45'.]  Precise leveling in 1898 by E. L. McNair.	843. 433 911. 607
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. 433 911. 607
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  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  Almond, 950 feet east of Erie station, bridge foundation at northwest corner of small railroad bridge over highway; aluminum tablet stamped "1383 D"	843. 433 911. 607 1, 395. 0 1, 382. 914
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  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  Almond, 950 feet east of Erie station, bridge foundation at northwest corner of small railroad bridge over highway; aluminum tablet	843. 433 911. 607 1, 395. 0 1, 382. 914
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  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  Almond, 950 feet east of Erie station, bridge foundation at northwest corner of small railroad bridge over highway; aluminum tablet stamped "1383 D"	843. 433 911. 607 1, 395. 0 1, 382. 914
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  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  Almond, 950 feet east of Erie station, bridge foundation at northwest corner of small railroad bridge over highway; aluminum tablet stamped "1383 D"  Hornell, in front of Erie station; top of rail  Hornell, 0.7 mile east of Erie station, foundation wall at northeast corner of iron railroad bridge; aluminum tablet stamped "1141 D"	843. 433 911. 607 1, 395. 0 1, 382. 914 1, 152. 8 1, 142. 481
Honeoye, Congregational Church on Main Street, in west face; bronze tablet stamped "844 Rochester 1901" (bench mark on a short spur line not checked)  From McQueens 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"  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  Almond, 950 feet east of Erie station, bridge foundation at northwest corner of small railroad bridge over highway; aluminum tablet stamped "1383 D"  Hornell, in front of Erie station; top of rail  Hornell, 0.7 mile east of Erie station, foundation wall at northeast	843. 433 911. 607 1, 395. 0 1, 382. 914 1, 152. 8 1, 142. 481

Canisteo, 2.1 miles east of, bridge seat at northeast corner of iron- girder bridge 87; aluminum tablet stamped "1113 D" (destroyed)_ Adrian, in front of Erie station; top of south rail	1, 114. 092
From Eurns southeast along Erie R. R. to Hornell.	
Burns, in front of station; top of northeast railBurns, 0.4 mile southeast of, north side of track, on east wall of open culvert; chiseled square	r
Arkport, in front of station; top of north railArkport, Methodist Protestant Church, southeast corner, in foundation stone; aluminum tablet stamped "1188 Rochester 1902"Arkport, 1.91 miles south of, southeast corner of bridge 4, on wing	1, 191. 9
wall; chiseled square	
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"Arkport, 1.3 miles northeast of four corners, in barnyard of Fred Lawrence, on granite boulder; chiseled square painted "U. S.	1, 188. 284
T. B. M. 1460"Arkport, 1.8 miles northeast of, on small boulder beside road; chiseled square painted "U. S. T. B. M. 1594"	
Arkport, 3.1 miles northeast of, in southeast corner of retaining wall of small cemetery; bronze tablet stamped "U. S. P. B. M. 1860"South Dansville, 2.65 miles southwest of, at three corners at foot of	1, 859, 695
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" South Dansville, 0.82 mile east of, in front of abandoned house near	1, 406. 228
top of "Dey Hill," on boulder beside road; chiseled square painted "U. S. T. B. M. 1803"	•
2015"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, 014. 85 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"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"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"	

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"	
Cohocton, 1.2 miles west of, on north side of concrete culvert; chiseled square painted "U. S. T. B. M. 1428"	
From point 4.8 miles southwest of Cohocton south along highway to point near Howard, thence southwest to Hornell, thence north along Pittsburg, Shawmut & 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"  Haskinsville, 2.53 miles north of, in end of concrete sidewalk in front	
of W. M. E. Holmes's house; bronze tablet stamped "1690" Haskinsville, 1.04 miles north of, 30 feet south of driveway to Harvey Henderson's, on boulder beside road; chiseled square painted	1, 009. 011
"U. S. T. B. M. 1650"Haskinsville, 300 feet north of four corners, on middle east side of	1, 649. 48
bridge; chiseled square painted "U. S. T. B. M. 1607.6" Haskinsville, 1.64 miles southeast of, opposite residence of Mrs. C. J. Myers, 30 feet east of road in large boulder; bronze tablet stamped	1, 607. 53
"1884"Haskinsville, 2.67 miles southeast of, at three corners, opposite Cyrus	1, 883. 566
Keller's house, on flat rock; chiseled square painted "U. S. T. B. M. 1993"	1, 992. 97
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"	
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 "Big Creek, 3.07 miles west of church, on south wing concrete culvert; chiseled square painted "U. S. T. B. M. 1323 "	
Hornell, 2.6 miles northeast of, 50 feet east of driveway to Glendale Farm, in north wing concrete culvert; bronze tablet stamped	
"1284"Hornell, 1.83 miles northeast of, in west wing of concrete culvert;	
chiseled square painted "U. S. T. B. M. 1230" 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"	

Arkport, in Methodist church, in southeast corner of foundation wall; aluminum tablet stamped "1188 Rochester 1902"Arkport, 2 miles east of, on northwest corner Erie R. R. bridge; chiseled square marked "U. S. T. B. M. 1172"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"Hornell, 850 feet north of Shawmut station, in southwest corner	1, 188. 284 1, 171. 61
concrete highway bridge; bronze tablet stamped "1156"	1, 155. <b>343</b>
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"Howard, at three corners, west of village, on north wing concrete culvert; chiseled square painted "U. S. T. B. M. 1654.6"	
Howard, 100 feet east of post office, in concrete horse block in front of Mrs. Peck's house; bronze tablet stamped "1648"	
INDIAN LAKE QUADRANGLE.	
[Latitude $43^{\circ}$ $30'-43^{\circ}$ $45'$ ; longitude $74^{\circ}$ $15'-74^{\circ}$ $30'$ .] 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."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;	1, 768. 369
copper bolt stamped "U. S. G. S. 1689 Ft" 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.	1, 685. 012
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."	
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."	
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."	
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	

Kennedy, 750 feet south of station, east end of north abutment of Erie R. R. bridge; bronze tablet stamped "1257 Dunkirk 1902"Kennedy, in front of station; top of east railConewango, in front of station; top of east railConewango, residence of Dr. Smith, north face, east end, in foundation wall; bronze tablet stamped "1293 Dunkirk 1902"	1, 257, 353 1, 260, 6 1, 282, 8
From Falconer north along the Dunkirk, Allegheny Valley & Pittsburgh R. R. to Gerry, 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"Gerry, in front of station; top of east railGerry, in foundation wall of schoolhouse, district 1, 9 feet from southeast corner, east face; bronze tablet stamped "1309 Dunkirk 1902"_Ellington, foundation wall of Congregational Church, in north face of east end; bronze tablet stamped "1380 Dunkirk 1902"	1, 257. 717 1, 296. 1 1, 308. 729
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 1, 248. 0
KAATERSKILL QUADRANGLE.	
0	
[Latitude 42°-42° 15; longitude 74°-74° 15'.]	
[Latitude 42°-42° 15; longitude 74°-74° 15'.]  Primary leveling in 1900 by George Bailey and W. S. D. Moore.	
Primary leveling in 1900 by George Bailey and W. S. D. Moore.	1, 790. 606 1, 620. 17
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"  Hunter, 1 mile south of, east abutment of highway bridge, south end, top of stone; chisel mark  Hunter, public-school building, north side of front entrance, in foun-	1, 790. 606 1, 620. 17
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"Hunter, 1 mile south of, east abutment of highway bridge, south end, top of stone; chisel markHunter, public-school building, north side of front entrance, in foundation wall; aluminum tablet stamped "1602 Albany"	1, 790. 606 1, 620. 17
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 1, 620. 17 1, 602. 562
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 1, 620. 17 1, 602. 562

West Camden, 150 feet east of railroad, in northwest corner of foundation of Foster's general store; bronze tablet stamped "542 Albany"	Feet. 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"Amboy, in foundation wall of Union Church, west end of south face; bronze tablet stamped "654 Albany 1903"	587. 989 654. 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.	
Philmont, west side of Empire House, in stone over cellar window; bronze tablet stamped "Albany 525"	525. 504 397. 3
Survey Commission)	470. 912
Chatham, in northeast corner of Masonic Block, about 3 feet from ground; aluminum tablet stamped "Albany 470"Chatham, 1 mile north of, on west abutment of bridge 201, in top stone; bench 84 of the Massachusetts Topographical Survey Commis-	470. 990
sion, 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. 924 245
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" Rossman station, road crossing 100 feet south of; east rail Stockport, road crossing just north of station; west rail Stottville, 150 feet north of station, road crossing; east rail	156. 376 63. 6 47. 0 125. 4

## LAKE BONAPARTE QUADRANGLE.

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

## Leveling in 1914 by A. P. Meade, jr,

## Near Bacon.

Bacon, 0.9 mile east of, in southeast corner of small railroad bridge;	Feet.
top end of bolt	950. 39
Bacon, $1.2$ miles east of, 4 feet southeast of milepost $54$ , in rock;	
chiseled square painted "966"	966. 37
Leveling in 1912 by H. S. Senseney.	
From Carthage northeast along New York Central & Hudson River R. R. to Pitcaira, thence northwest along highways to Keene.	
Rogers, opposite dairy; top of rail	846. <b>6</b>
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. 858"	857, 64
Diana, at road crossing; top of rail	833. 3
Diana, 75 feet west of water tank, north side of track; spike in tele-	
graph 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.	110.400
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 cross-	113.00
ing, north side of track; spike in telegraph pole, painted "T. B. M. 773"	772, 85
Harrisville, at road crossing west of station; top of rail	780. 1

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Harrisville, Main Street crossing, north side of track, 1 foot west of boardwalk; top of iron post marked "C"	Feet. 792. <b>67</b>
Harrisville, east end of highway bridge over Oswegatchie River,	
south sice of road in cement walk; aluminum tablet stamped "Prim. Trav. Sta. No. 3, 813"	813. 154
Harrisville 1 mile east of, north side of track; spike in telegraph pole, painted "T. B. M. 837"	836, 58
Bacon station, 75 feet east of road crossing, 20 feet south of track,	
in ledge; bronze tablet stamped "894"Pitcairn, 0.2 mile west of, southwest corner of <b>T</b> road south; copper	894. 410
b. m. nail in root of tree, painted "T. B. M. 777"	776. 51
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"_	768. 90
Oswegatchie River, bridge over	754. 3
Oswegatchie River, surface of water, Aug. 7, 1912	740. 3
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"_	. 768, 02
Harrisville, 2.5 miles north of, 700 feet south of Geer's Corners, east side of road, in culvert; bronze tablet stamped "765"	765, 351
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	100.001
in front of house "T. B. M. 781"	781. 156
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"_	799. 73
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"	796, 549
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"	793. 88
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"	710. 02
Keenes station, 7 miles southeast of, at Kellogg's Corners, in con-	,
crete front of store; bronze tablet stamped "663"	662. 601
Kellogg's Corners, 2.2 miles west of, north side of road; copper nail in root of tree, painted "T. B. M. 639"	638. <b>63</b>
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"	644. 11
Keenes station, 5.5 miles southeast of, 0.4 mile northwest of Rices	U <del>II</del> , 11
Corners (monument in plain sight), east side of bridge over creek,	
in south abutment; bronze tablet stamped "610" Keenes station, 2.5 miles east of, at Steele's Corners; painted circle	609. 411
on rock, marked "584.15"	583. 69
Keenes station, 150 feet southwest of hotel, 66 feet south of center of highway, in lower end of granite outcrop; aluminum tablet	
stamped "465"	465. 577
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
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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"	Feet. 872, 93
Harrisville, 3.5 miles south of, on road to Jerden Falls, in front of	
Mr. Edgar Mantle'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 <b>T</b> 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	0
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.	000.000
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 " Jerden Falls, bridge over west branch of Oswegatchie River, west end	932. 25
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 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."\_\_\_\_\_\_ 828.311

Wells, Hosley House, in back yard of hotel, on rock 15 feet broad and 5 feet high; bronze tablet stamped "1026"Wells, east end of abutment of covered bridge; chiseled circle and	Feet. 1, 022. 170
"B. M. B. X." Wells, 0.3 mile north of, patent line monument in yard of white house	988. 62
opposite road to east, in ground 15 feet southeast of house; stone marked "∆" (triangle is 6 inches on each side) 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."Charley Lake, 25 feet southwest of schoolhouse opposite, in boulder 8	1, 593. 24
feet broad; copper bolt stamped "U. S. G. S. B. M. 1719" Gilman Lake, white house opposite center of, 10 feet east of road at trail to Griffin; stone 100 feet south of building marked with chis- eled 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.")	
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"	
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"	
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

## LITTLE FALLS QUADRANGLE.1

[Latitude 43°-43° 15'; longitude 74° 45'-75°.]

Primary leveling in 1896 by A. B. Pomme, in 1898 by Clark Brown, E. L. Faison, and M. S. McDiarmid.	
From Little Falls east to Ingham Mills, thence north to Salisbury Center.	<b></b> -
Little Falls, engineer's bench mark at lock 36, Erie Canal Little Falls, southeast corner of Ann and Albany streets, northwest corner of brick building with stone foundation; aluminum tablet	Feet. 343. 487
stamped "397"Little Falls, 2 miles east of, Erie Canal lock 37, northeast corner; top	397. 118
of coping stone, chiseled cross  Manheim, in front of station; top of south rail  Inghams Mills, 27 feet east of Little Falls & Dolgeville R. R. track, 120 feet north of road crossing, on rock in place 6 feet above ground; aluminum tablet stamped "726 A"	353. 535 604. 5 726. 870
From Salisbury Center west via Fairfield to Middleville.	
Salisbury Center, brickwork in rear of Universalist Church; aluminum tablet stamped "1065 A"Salisbury Corners, church near northeast corner of crossroads, stone	1, 064. 372
entrance, lower step, south end of face corner; chiseled square Fairfield, Military Academy laboratory building, front of south end, in stonework 3 feet above ground; aluminum tablet stamped	
"1278 A"Fairfield, Military Academy laboratory building, front of south end, projection on corner stone 1 foot above ground; old bench mark marked "1276.829 above tide at Troy"	
From Middleville north to Norway, thence east and south to Salisbury Center.	
Middleville, 3.5 miles north of, 200 feet north of road to east by stone schoolhouse, east end of stone culvert; chiseled square	777. 00
tablet stamped "1320 A"	1, 319. 830
barn; aluminum tablet stamped "1618 A"	,
From Newport along the New York Central & Hudson River R. R. southeast to Middleville, thence south to Herkimer.	
White Creek, iron bridge, on south abutment of bridge seat, east wing; chiseled square	632. 77
City Brook, on south end of east parapet wall of stone arch, on coping stone; chisel mark	609. 03
Canyon Brook, stone arch over, south end of east parapet wall, on coping stone; chiseled square	591. 26
Middleville, West Canada Creek; north coping of west abutment of iron highway bridge, marked "O"	572. 35

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,	Feet. 570. 861
front entrance; chiseled square	591, 21
Countryman station, Atlantic & St. Lawrence (Grand Trunk) R. R., bridge 10, north abutment, west wing wall, close to angle, on coping stone; chiseled square	492. 31
Bridge, north abutment, west wing; bridge seat marked "." B. M	473. 80
West Canada Creek, Kast Bridge (railroad station), west abutment, north wing; bridge seat stamped "O. B. M."	457. 51
Herkimer waterworks, north door of pump house; northwest corner of doorstep, stamped "O. B. M. 5"	402 03
Herkimer, county clerk's office on Court Street, left of main entrance, in stone water table; aluminum tablet stamped "407 A"	406. 975
LIVINGSTON MANOR QUADRANGLE.1	
[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"	
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. 1,196.4"	1, 184. 1
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"	1, 279. 779
Roscoe, in front of station; top of rail	1, 283. 9
office, top of hydrant painted "t. b. m. 1,296.2"	1, 296. 14
Beaver Kill bridge, in east end of central pier; bronze tablet stamped "N. Y. 1332"	1, 332. 099
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. 1,350.3"	1, 350. 35
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. 1,367.9"	1, 367. 89

Craigie Clair School, 700 feet south of, in northwest abutment of highway bridge over Beaver Kill; bronze tablet stamped "N. Y. 1415"	Feet. 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. <b>256</b>
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."  Dysinger Corners, William Dysinger's red barn, in southwest corner of foundation; bronze tablet stamped "628 ft."  McNalls Corners, on northwest corner of road crossing, southeast corner of doorstep of large brick house; chiseled square	615. 183 627. 697 659. 01
At Pendleton.	
Pendleton, Sulphur Springs guard lock bridge 168, in north end of east pier; copper bolt stamped "582 ft."	581. <b>160</b>
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. 55 <b>4</b> 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. <b>3</b>
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 Al-	
bany 1900" Long Eddy, in front of station, northbound track; top of rail	835. 195 836. 7
1 See Pull 514 nn 07 09 for other elevations	

<sup>&</sup>lt;sup>1</sup> See Bull. 514, pp. 97-98, for other elevations.

Hankins, in front of station, northbound track; top of railHankins, 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)	Feet. 807. 5
Callicoon, in front of station, northbound track; top of railCallicoon, 900 feet south of station, railroad girder bridge over Delaware River, top of north abutment, east side; bronze tablet stamped	782. 3
"780 Albany 1900"	780. 683
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" 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	961, 442
circle painted "t. b. m. 958.3"Fish's Eddy, 1 mile west of, in south side of concrete foundation of New York, Ontario & Western semaphore 155; chiseled circle	958. 32
painted "t. b. m. 978.6"	978. 71
Fish's Eddy, in east abutment of railroad bridge 165, between north- bound and southbound tracks; bronze tablet stamped "982"	981. 770
Fish's Eddy, opposite crossing signal at station; top of rail East Branch, 2.1 miles west of, on concrete foundation of New York, Ontario & Western Ry. semaphore 153; chiseled circle painted	989. 1
"t. b. m. 990.5"East Branch, 0.9 mile west of, 650 feet west of semaphore 151½, in ledge, in south margin of track; chiseled circle painted "t. b. m.	990, 67
1,007.9 "	1, 008. 11
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 saw-mill, in ledge, south margin of track; chiseled circle painted	
"t. b. m. 1,029.6" Trout Brook station, 520 feet west of, in north end of west abut-	1, 029. 86
ment of railroad bridge 160; chiseled square painted "t. b. m. 1,038.3"	1 028 50
Trout Brook, in front of station; top of rail	
Trout Brook station, 1.3 miles east of, 580 feet east of milepost 147, in ledge, south margin of track; bronze tablet stamped "N. Y. 1,074"	1 074 799
Elk Brook station, top of north rail of eastbound track, at road	
crossingChiloway station, 0.7 mile west of, in foundation of semaphore 145;	1, 090. 5
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"Horton station; top of north rail of westbound track	1, 127, 90 1, 140, 9
	.,

## 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	Feet.
stamped "1555 Albany"	
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	
Raquette Falls, 150 feet west of Martin Talbot's, in boulder; alumi-	
num tablet stamped "Albany 1574" Long Lake, island in lower end of, 120 feet west of Island House,	1, 374, 654
owned and occupied by Amos Robinson, in top of boulder; aluminum tablet stamped "1638 Albany"	1 628 211
num tablet stamped 1000 Albany	1, 000. 211
From point 4 miles west of Newcomb, north to Catlin Lake (single-spur line).	
Catlin Lake, Caughnawauga 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 50
Tupper Lake, 10.6 miles south of, foot of Jenkins Pond, Litchfield Park, 50 feet east of farmhouse, at entrance to barn; aluminum	1, 554. 56
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	

#### 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. 529
Lowville, in front of station; top of rail	868.8

<sup>1</sup> 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.

Trum Trum arong Dollar at Co. 10. 10. That make	
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" Hadley, 3.25 miles north of, at northwest corner of steel-girder bridge 9 over Wolf Creek, in coping stone of bridge seat; aluminum	Feet. 634. 309
tablet stamped "630 Albany 1899"Stony Creek, 0.4 mile south of, at northwest corner of steel-girder bridge 10 over Stony Creek, in coping stone of bridge seat; alumi-	630. 458
num tablet stamped "600 Albany 1899" Thurman, 1.25 miles north of station, at west end of south abutment of steel-girder bridge 13, in coping stone; aluminum tablet stamped	600. 427
"628 Albany 1899"	627. 774
Primary leveling in 1899 by J. E. Thomas.	•
From Hadley west to Day, thence south to Edinburg.	
Hadley, northwest 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_ Luzerne, 4.5 miles northeast of, west side of Warrensburg road, 300	665. 03
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; alumi-	
num tablet stamped "600 Albany 1899"	600. 427

796. 55

## LYON MOUNTAIN QUADRANGLE.

[Latitude 44° 30'-44° 45'; longitude 73° 45'-74°.]

#### Primary leveling by George Seidel in 1903.

#### At Twin Pond.

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"Twin Pond, Delaware & Hudson R. R. b. m. "2078+82," cross cut into south corner of parapet abutment	
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"_Standish, 100 feet west of, opposite section house, at southwest corner	
of railroad water standpipe, on concrete base; marked "1578.3" Standish, 0.7 mile east of, on south abutment of concrete culvert, 6 feet west of center of track; aluminum tablet stamped "1598"	
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"	
" 1712 "	1, 711. 90
Lyon Mountain, 2.7 miles northeast of, on Delaware & Hudson R. R.; top of concrete culvert, marked "1715.3"	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"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"	•
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"	
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" Saranac Hollow, on stone post at fence corner near intersection of Redford road and road to Burnt Hill; drill hole in top of stone	799. 548
marked "778.0"	776. 87

<sup>1</sup> The true elevation of this bench mark may be 1 foot greater.

Moffitsville, west end of wooden bridge over Saranac River; elevation painted on large stone marked "797.6" at south side of bridge\_

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" Moffitsville, 1.7 miles west of, near intersection of Saranac and Redford (old plank) roads with road passing Patrick Moore's	925. 80
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
marked "1097.3"Redford, 1.1 miles south of, at road corner, 9 feet from corner of fence; square cut in top of rock marked "1109.8"	
Clayburg, on northwest corner of north abutment of iron bridge over Saranac River; aluminum tablet stamped "1119"Clayburg, 0.25 mile north of, on Cold Brook road at road corner;	1, 117. 561
square cut on small stone marked "1132.0"Clayburg, 2.3 miles north of, opposite Ans's store; point on rock	
marked "1135.9"	
tablet stamped "1145"Cold Brook, by roadside in front of schoolhouse; point on rock	·
marked "1167.4"Cold Brook, 1 mile west of, 250 feet west of Mrs. P. Hanlon's residence, 12 feet south of road; point on stone marked "1193.2"	·
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
angle between Alderbrook road and road to Merrillville; aluminum tablet stamped "1616"	
Merrillville, 1.4 miles east of guide boards, at road corner; square cut in top of boulder marked "1501.2"	1, 500. 35
ing, 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
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 "1220.0"Goodriches Mills, 2.7 miles west of, at road corner, in front of residence	1, 218. 89
of M. Tearney; square cut in top of stone, marked "1291.8" Silver Lake, 2.3 miles east of, at road corner, on stone in field near	1, 290. 68
stone wall at north side of road, 100 feet west of road corner; aluminum tablet stamped "1514"Hawkeye (Silver Lake), in front of hotel near boathouse; point on	1, 513. 176
rock marked "1402.6"Silver Lake; surface of water, August 21, 1911	

Hawkeye, 1.4 miles west of, 150 feet east of road corner, on north side of road, in boulder; aluminum tablet stamped "1542"	
Union Falls, on west wing wall of concrete dam, under gate house;	
square cut in concrete, marked "1398.8"Alderbrook, 0.2 mile east of post office, in front of church, near cemetery gate, on boulder; aluminum tablet stamped "1607"	·
Alderbrook, 0.2 mile west of post office, at road corner near yellow schoolhouse; point on stone marked "1534.7"	
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"Alderbrook, 2.8 miles west of, at road corner; point on boulder marked "1501.2"	
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 railLakeside, on west wall of railroad culvert, north side of track, 600	425. <b>7</b>
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.;	455. 8
Fairport, Main Street, West Shore R. R.; top of rail Fairport, Union school, in water table of Church Street front; aluminum tablet stamped "498 Oswgo"	455. 6 498. 983
From Ontario south via Walworth to Palmyra.	100.000
Walworth, at northwest corner of Walworth Academy building, in	
water table; aluminum tablet stamped "564 Oswgo"Palmyra, 1 mile west of, Mud Creek aqueduct, in buttress of south	564. 785
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"	465. 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

<sup>&</sup>lt;sup>1</sup> See Bull. 514, pp. 23-24, for additional elevations.

road, in boulder 5 feet broad; copper bolt stamped "1421 A"\_\_\_\_ 1,420.664

## 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

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."	1 542 828
McKeever, 2 miles north of, iron railway bridge 6 (20-foot span),	1, 040. 020
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 para-	
pet, 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 7714 90
south end of curvert, on north end of parapet, emseled square	1, 114. 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;	
½-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.	
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.	
Malone Junction, 0.97 mile east of, 60 feet east of road crossing, on	<b>7</b> 50. 50
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.	750. 50
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
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"	
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. 50 338. 74
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"	
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"	338. 74
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"	338. 74 383. 00
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"	338. 74
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"	338. 74 383. 00
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"	338. 74 383. 00
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"	338. 74 383. 00 403. 210
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"	338. 74 383. 00 403. 210
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"	338. 74 383. 00 403. 210
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"	338. 74 383. 00 403. 210 411. 96
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"	338. 74 383. 00 403. 210 411. 96

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. 559.9"	Feet. 559. 50
on top of west support of milepost M-1; chiseled cross painted "U. S. T. B. M. 680"	679. 71
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" Whippleville, 1 mile north of station, 0.25 mile north of milepost 4-170, in west side concrete dry bridge; bronze tablet stamped	939. 62
"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.	114.01
B. M. 701"	701. 03
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. 139
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"Bangor station, 3.5 miles west of, north side of track, 25 feet east	513. 43
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"Bangor station, 5.2 miles west of, 100 feet east of private road cross-	486. 54
ing, 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 Skeery 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"	Feet. 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	001. 100
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 <b>T</b> 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;	500. U±
bronze tablet stamped "1,000"	1 000 010
	1, 000. 010
Brandon Center, in front of church, on ledge; chiseled square marked	1 041 00
"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 north-	1, 210. 111
east corner of bridge; painted bolthead marked "U. S. B. M. 1184"_	1 100 01
	1, 100. 01
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 "Wood-	
ward" 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;	0.20.01
bronze tablet stamped "N. Y. 730 1914"	729. 501
• • • • • • • • • • • • • • • • • • • •	
From point 2 miles east of Brushton north and east along highway to West- ville, 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
TOTAL, OF BOULGOT, CHIBOTOR SQUARE MATRICE. C. S. D. M. 100	10

Cook Corners, about 1 mile southwest of, at northwest corner of cross-roads, on ledge; chiseled square marked "U. S. B. M. 361"	Feet. 361. 00
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;	000.70
chiseled square marked "U. S. B. M. 321"	320. <b>73</b>
Cook Corners, 1.9 miles north of, southeast corner of road forks,	001 505
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"	940 19
Fort Covington Center, 60 feet south of road forks, west side of road,	240. 13
in culvert; bronze tablet stamped "N. Y. 204"	203. 432
Fort Covington Center, 1.3 miles north of, southeast corner of bridge	200. 402
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;	101.000
chiseled square marked "U. S. B. M. 187"	187. 13
Westville, at forks of roads, 100 feet west of Ordway's store, in cul-	101, 10
vert; bronze tablet stamped "N. Y. 205"	205. 013
Westville Center, 1.1 miles north of, east side of road, on culvert;	_ 200.010
chiseled square marked "U. S. B. M. 218"	217. 54
Westville Center, 50 feet northeast of church, at northeast corner of	<b>2.1.</b> 01
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. <b>4</b> 1
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	_5_, 550
tree; copper nail with washer, marked "U. S. B. M. 239"	238. <b>3</b> 4
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;	
conner nail with washer, marked "U.S.B. M. 239"	238 78

# MARGARETVILLE QUADRANGLE.

[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 47, south end; aluminum tablet stamped "1515 Albany 1901" Kelleys Corners, in front of station; top of west rail Halcottsville, in front of station; top of west rail 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" Halcottsville, 1.45 miles north of, at highway crossing; crest of dam_	1, 515. 771 1, 380. 7 1, 403. 8 1, 399. 691
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"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	1, 325. 581
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 "1685 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, 307. 3
chiseled square painted "t. b. m. 1305.4"	1, 296. 62
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"Arena station, 450 feet east of, in ledge, south margin of track, 1	1, 268. 53
foot above ground; bronze tablet stamped "N. Y. 1270"Arena, at road intersection near old "Central House"; back part	
of hydrant top marked "B. M. 1263" (old t. b. m.)	1, 266. 57

### MASSENA QUADRANGLE.1

[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 ‡-inch round-head bolt (Deep Waterways P. B. M. 6)	Feet. 232. 381 205. 000 192. 946
From Massena Springs southwest along road via Raymondville to Norwood, thence along railroad northeast to Winthrop, thence along highway northnortheast 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" Raymondville, in foundation wall of Union Church, 10 feet from	216.063
north end of west face; bronze tablet stamped "251 Albany 1904-"_Norfolk, in foundation wall of Presbyterian Church, 12 feet south of	251. 126
north end of west face; aluminum tablet stamped "257 Albany 1904"	257. 037
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" Winthrop, in foundation wall of Universalist Church, south end of	344. 718
east face; aluminum tablet stamped "337 Albany 1904"	337. 180
let 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	
	376. 484

<sup>&</sup>lt;sup>1</sup> 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	Feet.
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. 54 <b>7</b>
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" Wheatville, 200 feet north of road crossing, 3 feet east of fence line,	615. 756
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
abutment, copper bott stamped 022	021. 100
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, cen-	
ter of north face; bronze tablet stamped "467 Albany 1903" South Albion, in foundation of cheese factory, south end of east face;	467. 454
bronze tablet stamped "645 Albany 1905"	645. 002

See Bull. 514, p. 96, for additional elevations.
 See Bull. 514, p. 88, for additional elevations.

From Union Square scuth along the Rome, Watertown & Ogdensburg R. R. to Parish, thence east along highways to West Amboy.	Feet. 475. 95
Parish; top of southeast corner of foundation wall of station  From Parish south along the Rome, Watertown & Ogdensburg R. R. to Central Square, thence east along the New York, Ontario & Western Ry. to Con-	410.90
stantia.  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
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 abut-	
ment, third course from ground; aluminum tablet stamped "Albany	Feet.
399 "	399. 388

### MOIRA QUADRANGLE.1

[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"	419. 450 193. 144 166. 453 166. 452
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; \(\frac{1}{4}\)-inch bolt (Deep Waterways P. B. M. B.)	191. 039 178. 261
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	438. 8 432. 510 409. 42 377. 3 419. 450
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 rail-	
road at culvert 18, 25 feet east of rail, 5 feet north of track;	

<sup>1</sup> See Bull. 514, p. 59, for additional elevations.

602, 642

aluminum tablet stamped "603 Albany 1900"\_\_\_\_\_

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"Alburg, 2.7 miles west of, at northeast corner of crossroads, on	512. 23
boulder; chiseled square marked "U. S. B. M. 504"Lawrenceville, 300 feet east of Deer River, at northwest corner of	504. 31
crossroads, in culvert; bronze tablet stamped "435"Lawrenceville, 1.2 miles west of, at northeast corner of crossroads,	434. 517
on culvert; chiseled square marked "U. S. B. M. 467"Lawrenceville, 2.1 miles west of, at northeast corner of crossroads,	467. 26
on culvert; chiseled square marked "U. S. B. M. 439"Lawrenceville, 3.2 miles west of, at northwest corner of crossroads, in concrete step of creamery; bronze tablet stamped "437"	438. 60 436. 565
Lawrenceville, 3 miles west of, about 550 feet east of school house, at northeast corner of road forks, on ledge; chiseled square marked	100.000
"U. S. B. M. 403"Lawrenceville, about 3 miles northwest of, at northeast corner of	403. 14
crossroads, on rock; chiseled square marked "U. S. B. M. 368" North Lawrence, about 1.5 miles west of, 75 feet north of railroad, 35 feet east of road, in ledge; bronze tablet stamped "330"	367. 971 330. 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"North Lawrence, about 2.5 miles northwest of, 250 feet southeast of road forks, in boulder; bronze tablet stamped "265"	284. 47 264. 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 stamped "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."Moira, 2.7 miles northwest of, on east end of north abutment of	320. 809
bridge over Lawrence Brook; chiseled square marked "U. S. B. M. 314 W-10"	31 <b>3. 33</b>
Moira, 1.2 miles northwest of, 15 feet east of road forks, on boulder; chiseled square marked "U. S. B. M. 399"	398. 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"	Feet. 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. V. P. M. "marked "U. S. P. M. 105".	104 61
N. Y. B. M.," marked "U. S. B. M. 195"Helena, on north end of west abutment of Grand Trunk Ry. bridge over St. Regis River; bronze tablet stamped "191 Albany 1904"	194. 61 191. 039
From Helena east along Grand Trunk Ry. to Bombay.	101. 000
Helena, front of station; top of south rail, marked "U. S. 1994" Helena, 1.1 miles east of, south side of track, in telephone pole; spike	199. 4
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'.]	

#### ude 41° 30′-41° 45°; longitude 74° 30′-74°

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

### 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 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, 047. 30
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
trance of schoolhouse; chiseled square	1, 396. 82
Midway, 1 mile north of, about 200 feet south of road running east and west, on southwest bridge seat of small bridge; chiseled square	•
North Lansing, R. Beardsley's store, south of and close to building; iron post stamped "U. S. G. S. B. M. 1005 Ft."	
Locke, George Culver's store, corner of Main and Mill streets, on top of curbstone; chiseled square	793. 07
of station; iron bolt cemented in southeast abutment  From Sayles Corners southwest to Moravia.	
•	
Wilson Corners, top of retaining wall at blacksmith shop, in limestone boulder; chiseled square	1, 091. 24
road running east. west step stone to stairs; chiseled square Moravia, Moravia House, corner of Cayuga and Main streets, in northeast corner of foundation; bronze tablet stamped "743"	
Moravia, Church Street, at top of schoolhouse hill, capstone at north end of culvert; chiseled square	
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
	_, _00. 000

# 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"Hamilton, 1 mile north of, top of northwest corner of east abutment of railroad bridge over old canalBouckville, 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, 126. 038 1, 126. 91
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
of rail Parish, in front of station; top of rail Naples, Presbyterian Church, in northwest corner of front, in water table; bronze tablet stamped "799 Dunkirk"	717. 0 695. 8 799. 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 Eric R. R. to Cohocton.	
Atlanta, Presbyterian Church, front wall, in water table; bronze tablet stamped "1317 Dunkirk"	1, 317. 0
From Italy south to Prattsburg.	
Prattsburg, Presbyterian Church, in front wall, bronze tablet stamped "1470 Dunkirk"	1, 470. 637

# NEW BERLIN QUADRANGLE.1

[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 1, 123. 8 1, 111. 0 1, 109. 984 1, 127. 299 1, 089. 291
From New Berlin southwest along New York, Ontario & Western Ry.	
New Berlin, opposite New York, Ontario & Western station; top of southeast rail	1, 091. 32 1, 085. 1 1, 073. 6 1, 074. 0 1, 057. 0 1, 059. 667 1, 074. 24
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. 5 403. 7 375. 136
St. Elmo, in front of station; top of rail  Modena, in front of station; top of rail	435. 2 465. 8

<sup>1</sup> See Bull. 514, pp. 31-33, for additional elevations.

•	
119	)
Feet. 454. 2 421. 0 386. 3 353. 6	
358. 177	7
94. 404	Į
433. 619	)
410. 3	
375. 136	;
353. 2	
292. 52 279. 1 279. 13	
	1
554. 15	
194. 60	
308. 097	
297. 73	
236. 022	
	1

# PRECISE AND PRIMARY LEVELING.

•	Wood
Mowbray, in front of station; top of rail	Feet. 454. 2
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. 136
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	000 50
mark	292. 52
Wallkill, 400 feet south of station, at highway crossing; top of rail—Wallkill, foundation of water tank; point cut on stone————————————————————————————————————	279. 1
wankin, 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
	201.00
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"	308. 097
Forest Glen station, 0.2 mile south of, south end of trestle, east side	007 79
of track, on wall; chisel mark Newpaltz, Newpaltz Savings Bank, southwest corner; bronze tablet	297. 73
stamped "Albany 237"	236. 022
From Lloyd southwest to Clintondale.	1
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."	Feet. 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, 563. 41
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."	
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 squareHudson River, southwest bank, junction with north bank of Indian River; circular chisel mark and letter "S" on large boulder	1, 597. 78
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 1, 764. 825
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

\_\_\_\_\_\_ 1,610.793

#### NEW YORK CITY 1 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	Feet.
1898, and Board of Water Supply (mean sea level)	0.00
Croton Aqueduct, at Jerome and McLean avenues	<b></b> 786
Dock Department, mean low water at the Battery	<b>-2</b> . 103
Coast and Geodetic Survey previous to 1898	+. 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; alumi-	
num tablet stamped "1256 Albany 1900" 1	l, 256. 49 <b>7</b>
Dickinson Center, in front of station; top of rail	954.5
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
Tunnel, in front of station; top of north rail	1, 415. 2
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

<sup>&</sup>lt;sup>1</sup> 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	Feet. 1. 053. 7
	Nineveh, in front of station; top of north rail	
	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	1 909 5
	Oquaga, at railroad crossing by station, northbound track; top of rail_	
	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. <b>2</b>
	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°.]	
	Procise 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	E40 E40
	Albany 1899"Riverside, 400 feet north of station, on southeast corner of west	749. 510
	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 south-	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	
•	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)	
	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)NORTHEAST QUADRANGLE.	
	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)NORTHEAST QUADRANGLE.  [Latitude 42°-42° 15'; longitude 79° 45'-80°.]	
	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)	
	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)	1,008.048

# 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.	7714
Syosset, road crossing at station; top of rail	Feet. 205. 9 161. 38 129. 8
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)Commack, near post office, northeast angle of crossroads; large flat	229. 433
Brentwood, 200 feet west of station, road crossing; top of rail Brentwood, southeast corner of Presbyterian Church, 500 feet south of station, front face; bronze tablet stamped "87 Willetts Pt. 1901"_ Edgewood, 100 feet south of station, at road crossing; top of rail Deerpark, 800 feet south of road crossing, in front face of south corner of church; bronze tablet stamped "72 Willetts Pt. 1901"_	131. 57 86. 0 87. 401 77. 5
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. 9 171. 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	l, 006. <b>7</b>
foundation wall; aluminum tablet stamped "1015 Albany 1900" Galena, North Norwich, at railroad crossing near station; top of rail Galena (North Norwich post office), culvert of the New York, Ontario & Western Ry., east side of top of north abutment; bronze tablet	1, 030. 8
Earlville, in brickwork of schoolhouse, 1 foot to right of front door; tablet stamped "1100 Albany"1	i, 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"	

124 SPIRIT LEVELING IN NEW YORK, 1896–1905, 1912–1916.	
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"	Feet. <b>1,</b> 557. 240
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"	574. 084 574. 2 597. 4
of Pennsylvania R. R. bridge, near northeast corner of parapet wall; chiseled square	603. 72
Sonyea, 0.3 mile north of, southwest corner of girder bridge over highway, top of parapet wall; chiseled square	611. 56
Sonyea, in front of station; top of east railSonyea, 0.54 mile south of, center of bridge 12 over Keshaqua Creek; top of east rail	623. 5 630. 6
Sonyea, 2.38 miles south of, southeast corner of bridge 13, near northeast corner of parapet wall; chiseled square	707. 58
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	748. 82 767. 1
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	773. 302 868. 7 941. 0
Nunda, Fireman's Hall, front face, 1 foot from northwest corner, in water table; aluminum tablet stamped "944 Rochester 1902"	944. 345
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 squareRoss crossing, 1.40 miles northwest of, small wooden bridge near farm	•
crossing; top of east rail	1, 290. 5
Along Erie R. R.	
Ross crossing, 200 feet southeast of, between tracks, north side of open culvert, on coping stone; chiseled square	1, 317. 95
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"	

606, 287

	Feet.
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"Gibsonville, at road forks near old store, in boulder sunk in ground;	627. 144
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"	<b>1</b> , 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" Murray, 610 feet north of road crossing on west side of road, 81	457. 114
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; ½-inch bolt (Deep Waterways P. B. M. D.)Ogdensburg, 3.8 miles south of, 50 feet east of track, 100 feet west	251. 022
of road, 23 feet south of private road, in rock; bronze tablet stamped "309 Albany 1903 Adj"	309. 132
Heuvelton, in foundation wall of Presbyterian Church, east end of south face; bronze tablet stamped "315 Albany 1903 Adj"Flockville, in foundation wall of Presbyterian parsonage, west end	315, 188
of north face; bronze tablet stamped "364 Albany 1903 Adj" Lisbon, in foundation wall of Presbyterian Church, center of south	364. 086
face; bronze tablet stamped "357 Albany 1903 Adj"	357. 696

<sup>&</sup>lt;sup>1</sup> See Bull. 514, pp. 22-23, 61, for other elevations.

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
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; alu-
minum 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.1
[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

# 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"	Feet. 1, 787, 422 2, 134, 07
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
engineer New York State Water Supply Commission; elevation probably 3 feet less)	
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"	2, 221. 110
Honnedaga Forest Lodge, in south face of large boulder 50 feet north of office building; aluminum tablet stamped "2205 A"	
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 Eric R. R. to Cuba.	
Allegany, in front of Erie station; top of rail	1, 430. 4
Hinsdale, in front of Erie station; top of rail	

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". Cuba, in front of Erie station; top of rail	1, 509. 288 1, 534. 9
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	
Allegheny River highway bridge; west end of north abutment Portville, in front of Western New York & Pennsylvania Ry. station;	1, 433. 05
top of rail	
Portville, Presbyterian Church, in upper stone step at entrance; copper bolt stamped "U. S. G. S. B. M. 1438 Ft."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, 432. 143
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
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;	1 040 055
bronze tablet stamped "1047 A"Wells Bridge, in front of Delaware & Hudson station; top of south	
Otego, in front of Delaware & Hudson station; top of rail Otego, 1 mile east of, southeast corner of culvert, third step from top; bronze tablet stamped "1051 A"	1, 063. 9
Oneonta, State Normal School, in face of west pillar at main en-	
trance; aluminum tablet stamped "1232 A"Oneonta, in front of Delaware & Hudson station; top of north rail	
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)	<b>1</b> , 086. <b>469</b>

# Precise leveling in 1901 by D. H. Baldwin.

From Franklin station southeast along New York, Ontario & Western R. R. to Northfield.	
	Feet.
Franklin station, crossing; top of north rail	
Merrickville, at crossing; top of north rail	1, 700. 0
Northfield, 0.37 mile northwest of, 30 feet south of south end of Zig-	
zag 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. 900
Northfield, 0.37 mile northwest of, at railroad summit, north end of oil house; top of east rail	
Northfield, in front of station; top of northeast rail	
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,	±1 0 ±0. 00 1
on north side of road, on stone in fence; chiseled square marked	
"U. S. G. S. T. B. M. 1723"	1 702 97
Hughston Corners, 1.7 miles east of, over hill road to three corners	1, 120. 21
at Briar Creek road; chiseled square marked "U. S. T. B. M.	
at Briar Creek road, chiseled square marked C. S. I. B. M. 1520"	1 500 10
Hughston Corners, 2.8 miles northeast of, on Briar Creek road at	1, 520. 12
· · · · · · · · · · · · · · · · · ·	
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 50
Hughston Corners, 3 miles north of, in foundation of schoolhouse, dis-	1, 000. 55
trict 6; bronze tablet stamped "1618"	1 017 040
	1, 011. 040
Hughston Corners, 3.7 miles northeast of, junction of Briar Creek	
and Flax Island roads, on east side of road, in stone; chiseled	1 077 00
square marked "U. S. T. B. M. 1857"	1, 857, 26
Hughston Corners, 4.6 miles northeast of, 200 feet south of three cor-	
ners near S. A. Strait's residence, on east side of road, in root of	1 500 00
tree; copper nail marked "U. S. T. B. M. 1510"	1, 509. 89
Cooks Corners, 6 miles west of, at bend of road on top of hill, in front	
of Charles (!ardner's residence on west side of road, in stone; chis-	1 000 04
eled square marked "U. S. G. S. T. B. M. 1825"	1, 823. 04
Cooks Corners, in front of B. A. Cook's residence, in stone step;	1 000 10
chiseled square marked "U. S. G. S. T. B. M. 1609"	
Cooks 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
Cooks 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	<b>-</b>
stamped "1690"	1, 689. 771
104787°—Bull 671—18——9	

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"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, 480. 16 1, 313. 40
office, under E. H. Culver's store; bronze tablet stamped "U. S. P. B. M. 1144"	1, 144. 032
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"	
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"	
Leveling in 1915 by K. E. Schlachter.	
From Oneonta south along highway to point 5 miles northwest of Fraser.	
Oneonta, State Normal School, in face of west pillar at main entrance; aluminum tablet stamped "1232"Oneonta, on concrete curb at southeast end of highway bridge over Delaware & Hudson R. R. tracks; chiseled circle painted "t. b. m.	1, 231. 912
1,106.8 "Oneonta, 3.5 miles south of, along turnpike to North Franklin, 375	1, 106. 75
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"	
North Franklin, in southwest concrete abutment of bridge over Oule- out Creek; bronze tablet stamped "N. Y. 1334"	
North Franklin, 1 mile south of, on ledge in east margin of road; chiseled square painted "t. b. m. 1,740.8"Case Hill Corner, at northwest corner of barn, in rock; chiseled	1, 740. 90
square painted "t. b. m. 1,871.3"	1, 871. 42
South Fork of Ouleout Creek; bronze tablet stamped "N. Y. 1496"	1, 495. 85
school, in northwest corner of concrete culvert over Roaring Brook; chiseled square painted "t. b. m. 1,769.4"	
West Delhi, 2 miles north of, at corner, on rock in west margin of road; chiseled circle painted "t. b. m. 2,047.5"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

### 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, Lackawana & Western R. R. to Sauquoit.	
Utica, Pleasant Avenue, Delaware, Lackawanna & Western R. R. crossing; top of east rail  New Hartford, junction with trolley at station; top of east rail  Washington Mills, crossing; top of east rail  Willowvale, crossing; top of east rail  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; alumi-	Feet. 477. 8 537. 7 616. 6 658. 1
num tablet Chadwick, crossing at station; top of east rail Sauquoit, crossing at station; top of east rail	690. 719 721. 4 822. 4
Primary leveling in 1984 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 48° 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"Orwell, northwest corner of crossroads, northeast corner of foundation of public fountains; bronze tablet stamped "810 Albany"	1, 268. 538 809. 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"	
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

<sup>&</sup>lt;sup>1</sup> 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"	
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	
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	2, 002, 20
water, Aug. 21, 1914	1 086 4
Kalurah, 0.6 mile east of, in south side of culvert; west bolt	
	•
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	
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, 606
Jayville, 2.4 miles east of, on east side of milepost 61; top of iron	_,
brace nearest to track	1 212 29
Jayville, 2.7 miles east of, opposite Bear Lake, in center of track;	1, 010. 00
copper nail marked "1326"	1 225 56
Bear Lake; surface of water, Aug. 21, 1914	
	1, 291. 9
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	- 000 - 101
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.)	
Briggs, 0.1 mile east of, at crossing; top of high rail marked "1421"_	
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 ver-	
tical 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	
22-000/	_,

Briggs, 1.6 miles east of, at milepost 64, west of track; top of iron	
brace nearest to railroad	
Aldrich, 30 feet west of, at crossing; top of south rail	
Aldrich, 0.3 mile northeast of station, in southwest corner of abut-	
ment 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"	1 999 910
Aldrich, 1.2 miles northeast of, 10 feet north of milepost 66, 6 feet	1, 555, 516
east of track, on big rock; chiseled and painted square marked	
"1361"	1 260 02
Railroad summit	
Aldrich, 2.3 miles northeast of, at milepost 67, 6 feet south of track;	1, 000. 0
top of north iron brace of post	1 365 14
Coffins Mills, at road crossing, east of road, north of railroad, on	1,000.11
big stone; chiseled cross	1 366 26
Coffins Mills, at milepost 68, on south side of track; top of nearest	1, 000. 20
one to track of two iron braces	1 375 20
Oswegatchie, 200 feet east of station, at road crossing, on east side	1, 010. 20
of road, 25 feet south of railroad, 100 feet from hotel; bronze	
tablet stamped "1372"	1 371 932
Oswegatchie, 0.8 mile east of, at milepost 69, 6 feet south of track;	1,011.001
top of iron brace nearest track	1, 346, 86
Oswegatchie, 1.8 miles east of, at milepost 70; top of iron brace	2, 020, 00
nearest rack	1, 368, 12
Oswegatchie, 2.1 miles east of, at road crossing; top of high rail	•
Oswegatchie, 2.9 miles east of, at milepost 71; top of iron brace	_,
nearest track	1, 436. 30
Oswegatchie, 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	
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 south-	
east corner of pump floor; copper nail	1, 455. 73
Starlake post office, in front of Sunnyside Inn, at forks of roads,	1 100 01
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 60
	1, 511. 02
Starlake, 1 mile south of, west of road, on fence line, 500 feet north	1 497 457
of J. E. Kenny's house, on big rock; bronze tablet stamped "1427"_Starlake, 1.7 miles south of; floor of bridge over Little River	
Little River; surface of water, Aug. 25, 1914	
Starlake, 2.3 miles south of, at southwest corner of forks of roads, at	~, 000. I
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	
	-

	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	
Starlake, 3.9 miles southwest of, in small creek running east to	1, 440. 00
Tamarac Creek; surface of water, Aug. 26, 1914	1, 430. 3
Starlake, 4 miles southwest of, on east side of road, on big rock;	1 400 07
chiseled squareStarlake, 4.5 miles southwest of, on east side of road on grade, in	
root of maple tree; copper nail	
Starlake, 4.9 miles southwest of, on west side of road, 5 feet south of	1, 525. 04
big brick blazed rock; bronze tablet stamped "1541"	1 541 990
Starlake, 5.3 miles southwest of; corduroy bridge over Streeter Lake	
outlet streamStreeter Lake outlet stream; surface of water, Aug. 27, 1914	
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	
Starlake, 5.8 miles southwest of, at forks of roads, T road (private)	
west to Streeter Lake, on big stone; chisel mark	
Streeter Lake; surface of water, Aug. 27, 1914	
Starlake, 6.9 miles southwest of; corduroy floor of bridge	
Surface of water of creek under bridge, Aug. 28, 1914	
Pansy Lake outlet stream, at corduroy bridge; surface of water	
Starlake, 7.9 miles southwest of, 15 feet east of road, on west end of	
big rock; chiseled square	
Starlake, 8.6 miles southwest of; point on big rock in road	
Middle Branch of Oswegatchie River; surface of water, Aug. 29, 1914_	•
Francis old camp, at trail south to river, 15 feet south of bunk house,	
1.5 feet above ground on tree; copper nail	
Francis old camp; surface of water in creek to south Francis camp, 650 feet south of, 20 feet east of road, in large granite	
boulder; bronze tablet stamped "Prim. Trav. Sta. No. 5, 1913,	
1573 "	
Francis camp, 0.8 mile southwest of; surface of water in brook, Aug.	1, 512. 506
30, 1914	1 531 0
Francis camp, 1.2 miles southwest of, at road forks, in road; top of	
stone	
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	
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	
Middle Branch of Oswegatchie River; surface of water, Sept. 2, 1914_	,
Alder Bed driving camp, 0.1 mile southwest of, 30 feet west of stable,	
20 feet southwest of shed, on rock; chiseled square	
Alder Bed driving camp, 0.2 mile southwest of; corduroy bridge	
(water runs north)	1, 636. U

Alder Bed driving camp, 0.5 mile southwest of, on big rock in corduroy road; chiseled square	Feet. 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"Alder Bed driving camp, 2.9 miles southwest by south of, 0.3 mile west	2, 039. 389
of Kelley's camp, on south side of road, in top of stump; copper nail_Kelley's camp, 0.2 miles north of; surface of water in creek at road to	1, 809. 26
Massawepie north, Sept. 3, 1914	1, 772. 4
Kelley's camp, 15 feet southwest of tool house, 40 feet south of store-	
house, 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 "1372"	1 271 022
Oswegatchie school; ground	
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 ${\sf T}$ 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	1 950 75
Oswegatchie, 2 miles north of, on east side of highway, 50 feet south	1, 200. 10
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	1 000 04
SquareOswegatchie, 3 miles north of, east of highway, at corner of fences,	1, 203. 34
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	
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	1 000 10
over Oswegatchie River; end boltOswegatchie River; surface of water, Sept. 8, 1914	998. 5
Oswegatchie, 5.1 miles north of, on west side of highway, at road to	000.0
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 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	J11. 200
side of road, on rock under cliff; chiseled square	1 001 50
Fine, just southwest of, on southeast corner of bridge over Oswe-	1,001.00
gatchie River, on stone coping; chisel mark	988. 46
Oswegatchie River; surface of water, Sept. 9, 1914	
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; chis-	
eled 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	005 00
Greenwood Creek, in top of big stone; chiseled square Fine, 5.9 miles west by southwest of, at Moore's mill, on northeast	885. 92
platform over water slide; copper nail	933. 87
Fine, 6 miles southwest of, 1,000 feet south of Moore's mill, at turn-	<i>355.</i> 61
out 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	001.101
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

Alder Ped driving comp. 19 miles west of at station 17, point on		T7 4	
Alder Bed driving camp, 1.2 miles west of, at station 17; point on stone		Feet. 333, 92	•
Station 24, 25 feet east of; bridge (water runs southwest)			
Massawepie Lake; surface of water, Sept. 26, 1914			
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, 8	310. 37	,
Alder Bed driving camp, 2.4 miles west of, at station 29, in center of road; top of rock			
Alder Bed driving camp, 2.7 miles west of, at station 32, 4 feet north of blazed tree, in top of rock; chiseled square			
Alder Bed driving camp, 2.9 miles west of, at station 34, on north side of road, in rock; chiseled square			
Alder Bed driving camp, 3.25 miles west of; point on bridge over creek			
Surface of water, Sept. 29, 1914			
Alder Bed driving camp, 3.5 miles west of, at station 40, on stone; chiseled square			
Alder Bed driving camp, 3.8 miles west of, south of road at station 43,			
on top of big stone; chiseled squareAlder Bed driving camp, 4 miles west of, near station 45. in road, on			
top of big rock; chiseled squareCamp 1, 100 feet northeast of Mannigan's bunk house, on big rock;			
bronze tablet stamped "1622"Camp 1, 0.6 mile west of, on stone at forks of T road and turn-off			
road; chiseled squareCamp 1, 1.5 miles west of, on north end of corduroy bridge, on rock in			
creek; chiseled square marked "1520"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 Camp 1, 2.3 miles west of, southeast of Shaws camp, No. 250, on big			
rock; chiseled square	1, 3	886. 72	,
Camp 1, 3.4 miles west of, on north side of road, on east side of creek,	4 0		
18 feet east of corduroy road, on top of stone; chiseled squareCamp 1, 3.9 miles west of, at forks of main trail and road to Wallace			
camp, in root of beech tree; copper nailCamp 1, 4 miles west of, at forks of main road and turn off, in root	1, 3	544. UL	
of tree; copper nail	1, 2	39. 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, 2	20. 45	9
Cold Spring Creek (runs southwest); surface of water, Oct. 4, 1914	1, 2	08.0	
Camp 1, 4.3 miles west of, at forks of main road and cut-off, on root of beech tree; copper nail	1, 2	54. <b>94</b>	:
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 Bryant's bridge, 0.6 mile east of, 11.2 miles west of Alder Bed driv-			
ing camp, on southwest side of road, in beech tree; copper nail Bryant's bridge, 0.1 mile east of, at junction of road and road south	1, 1	.77. 60	
to Sugarbush, on top of stone; chisel mark	1, 0	63. 89	,
Bryant's bridge, over Oswegatchie River, on southeast corner of bridge: bolt.	1 ^	45 F	
DIREC. DOLL	1. ()	115 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" Red Creek, 200 feet west of station, road crossing; top of rail Sterling, 2.1 miles southwest of, railroad bridge over highway, fourth step of east wing of north abutment; chiseled square Sterling, at crossing of the Rome, Watertown & Ogdensburg and the Lehigh Valley railroads; top of rail Hannibal, schoolhouse on Oswego Street, in stone doorsill of north entrance; aluminum tablet stamped "354 Oswego" 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."	Feet. 356, 410 335, 3 339, 48 321, 0 355, 057 251, 898
Oswego "	295. <b>753</b>
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. 10 989. 52
Northern Central Ry.; chisel mark  Dundee, on foundation of railway water tank; chisel mark  From Kendaia south along the Lehigh Valley R. R. to Hector.	
Northern Central Ry.; chisel mark  Dundee, on foundation of railway water tank; chisel mark	

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.)	Feet. 817. 73
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.)North Hector, 0.5 mile south of station, 0.2 mile west of railroad, in	S39. <b>37</b>
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.)Hayt Corners, 1.6 miles north of, 1,500 feet east of railroad cryssing,	742. 53
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"	<b>1,</b> 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 Eric R. R. to Owego.	
Barton, in front of Erie station, westbound track; top of north rall_Barton, 1.2 miles east of, southeast corner of bridge 40, in coping stone	<b>7</b> 97. 6
of abutment; aluminum tablet stamped "798 A" Smithboro, in front of Erie station, westbound track; top of south	797. 517
rail	793. 1
Tioga Center, in front of Erie station, westbound track; top of south	797. <b>7</b>
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. <b>6</b>
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. 387 849. 8 892. 8
	928. 4

·		
From Owego south along highway to Gibson Corners.	Feet.	
Owego, Main Street road crossing; top of rail Kile triangulation station, 2.8 miles south of Owego; top of stone	807. 8	
monumentGibson Corners, 1.5 feet from south end of schoolhouse, in west side	1, 280. 349	
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 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" East Spencer, Lehigh Valley R. R. station; top of rail West Candor, Lehigh Valley R. R. station; top of rail North Candor, Lehigh Valley R. R. station; top of rail	999. 9 995. 395 986. 3 955. 9 948. 7	
OXFORD QUADRANGLE.		
[Latitude 42° 15'-42° 30'; longitude 75° 30'-75° 45'.]	•	
Primary leveling in 1900 by C. H. Semper and W. E. Green.		
From Guilford along the New York, Ontario & Western Ry. to Norwich.		
Summit, in front of station; top of railOxford, at road crossing near station; top of rail		
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 railOxford, southeast corner of Citizens' Opera House, in foundation	969. 5	
wall; aluminum tablet stamped "982 Albany"	982. 402	
OYSTER BAY QUADRANGLE.		
[Latitude 40° 45'-41°; longitude 73° 30'-73° 45'.]	<i>&gt;</i>	
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."		

# 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.1	
[Latitude 43°-43° 15'; longitude 77°-77° 15'.]	
Primary leveling in 1898 by C. H. Semper and D. E. Baxter.	
From Ontario east along highway to Wallington.	
Williamson, in front of station; top of rail	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"	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	405. 90 411. 03
Zurich, in front of station; top of rail	441. 5 456. 802
Fairville, 0.9 mile south of, railroad bridge 40, over Mud Creek, west end of south abutment; chiseled square.	414. 21
Fairville, 2.9 miles south of, railroad bridge 37, over Mud Creek, west end of south abutment; chiseled square	416. 35
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	434. 25
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	447. 81
water table; aluminum tablet stamped "457 Oswgo"	457. 570

### 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"	Feet. 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 Oswgo 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"	<b>1,</b> 112. 490
From Potter Center south via Branchport to Catawba.	
Potter Center, in east end of north abutment of iron bridge over Flint	000 100
Creek; tablet stamped "893 Oswego 1899"Friend, on west abutment at north end of bridge; chiseled square	893. 490 987. 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"_	790 709
Gulicksville (near Pulteny post office), in west end north wall of iron	720, 702
bridge; aluminum tablet stamped "733 Oswego 1899"	733. 615
PHELPS QUADRANGLE,	
[Latitude 42° 45'-43°; longitude 77°-77° 15'.]	
[Latitude 42° 45'-43°; longitude 77°-77° 15'.]  Primary leveling in 1899 by C. H. Semper.	
•	
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	
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
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;	536. 82 543. 142
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	
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	
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	543. 142

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"Bellona, in southeast corner of Memorial Presbyterian Church on	904. 027
Main Street; aluminum tablet stamped "731 Oswego 1899"	
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 Oswego"	
From Stanley west along the New York Central & Hudson River R. R. to Canandaigua.	
[The closure error in this line is excessive.]	
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 Oswego"	
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 railPhoenicia, in front of station; top of railPhoenicia, Ulster & Delaware R. R. bridge, south pier, top of east end; aluminum tablet stamped "804 Albany"	713. 9 796. 2 805. 171
From Phoenicia 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, 213. 85
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"West Kill, small steel bridge on south of road, east sill; chisel mark_	
From Phoenicia northeast to Lanesville.	
Chichester, in front of station; top of railChichester, 1.7 miles northeast of, north abutment of bridge, east end, top stone; chisel mark	

## From Hunter west to Lexington.

stone; aluminum tablet stamped "1405 Albany"Lexington, north pier of Schoharie Creek bridge, west end, top stone; aluminum tablet stamped "1329 Albany"	•
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, 213. 85
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"Oregon, 4.2 miles north of, 300 feet north of Pawley House, east side of road, in large table rock; aluminum tablet stamped "1674"	1, 511. 201
Albany"Rudiston, 1.7 miles south of, in east end of north abutment of highway bridge over outlet to Piseco Lake at mill; bronze tablet	1, 674. 064
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"	1 655 65
Morehouseville, 7.8 miles east of, top of rock south side of road;	,
chiseled circle Piseco, Irondequoit Club house basement; aluminum tablet stamped "1703 A"	,
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

#### 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.	<b></b> .
East Freetown, at road crossing; top of rail	Feet.
Reubens (milk station); top of rail	
Whites Mills, in front of station; top of rail	
Dutch Hill, road crossing; top of rail	
From Cincinnatus northeast along highway to Otselic.	
Cincinnatus, in northeast corner of brick building of J. W. Osgood,	
opposite hotel; bronze tablet stamped "1045 Albany"	
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).	٠
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"	
Cuyler, at road crossing near station; top of rail	<b>1</b> , 127. <b>1</b>
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.	
Primary leveling by Fred W. Crisp in 1916.  Plattsburg, at crossing of Delaware & Hudson R. R. track and Bridge	
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	
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."	
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
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
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. 065 109. 009
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916  Plattsburg, 1 mile south of, on Lake Shore road, in southwest corner	109. 065 109. 009
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. 065 109. 009
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916  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	109. 065 109. 009
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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"Plattsburg, 1.6 miles south of, on Lake Shore road, 300 feet south of	109. 065 109. 009 164. 86
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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"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	109. 065 109. 009 164. 86
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".	109. 065 109. 009 164. 86 159. 24
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".  Plattsburg, 2.5 miles south of, on Lake Shore road, 50 feet west of	109. 065 109. 009 164. 86 159. 24
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".  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	109. 065 109. 009 164. 86 159. 24
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".  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; chis-	109. 065 109. 009 164. 86 159. 24
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".  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	109. 065 109. 009 164. 86 159. 24
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".  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".	109. 065 109. 009 164. 86 159. 24
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".  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".  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	109. 065 109. 009 164. 86 159. 24 144. 64
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.)  Preliminary unadjusted elevation of same b. m. by C. & G. S. precise level line from Rouses Point in 1916.  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".  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".  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".  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	109. 065 109. 009 164. 86 159. 24 144. 64

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	l . l Feet.
Champlain"; painted square, marked "El. 164.7"Plattsburg, 4.2 miles south of, on Lake Shore road, opposite gold links, northeast corner of T road east, in stone culvert; chiseled square, marked "140.8"	!
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"	<u>.</u>
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	ı L
same side of road, top of boulder; chiseled square, marked "157.7". 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	
West end of culvertPlattsburg, 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"	
washer, marked "126.9"	
"114.66"  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"	,
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"Plattsburg, 12.3 miles southwest of, on Keeseville earth road, in southeast corner of crossroads, on stump; copper nail and washer,	211. 94
marked "U. S. G. S. 313"Plattsburg, 13.2 miles southwest of, southeast corner of crossroads, in root of large tree; copper nail and washer, marked "U. S. G. G. D. M. 200 C."	313. 23
S. B. M. 360.6 "	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	
Eric 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"Castile, southwest corner of coping stone of water plug; bronze tablet	1, 131. 174
stamped "1395 Albany 1903"	1, 394. 847

	Feet.
Castile, in front of station; top of rail	1, 395. 0
Summit, highest point of Erie R. R. (Buffalo division); top of rail	
Silver Springs, road crossing at station; top of rail	
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)	
Chace station, road crossing; top of railFairview, in front of station; top of rail	
Perry, road crossing; top of rail	
Perry, north end of west abutment of railroad bridge at station, in	
top stone; bronze tablet stamped "1362 Albany 1903"	
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"	
Hardys, in front of station; top of rail	
Pike Five Corners; west end of south abutment of iron bridge	
Pike, iron bridge across Wiscoy Creek, about center of east abutment,	
north side of driveway; bronze tablet stamped "1546 Albany 1903"	
1900)	1, 343. 960
PORT JERVIS QUADRANGLE.	
PORT JERVIS QUADRANGLE. [Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]	
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]	
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail	
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  Port Jervis, Eric R. R. bridge over East Main Street, top of south	
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  Port Jervis, Eric R. R. bridge over East Main Street, top of south abutment, west side, first step below bridge seat; bronze tablet	
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  Port Jervis, Eric 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. 07 <b>7</b>
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north	457. 07 <b>7</b>
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  Port Jervis, Eric R. R. bridge over East Main Street, top of south abutment, west side, first step below bridge seat; bronze tablet stamped "456 Albany 1900"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"	457. 077 780. 914
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  Port Jervis, Eric R. R. bridge over East Main Street, top of south abutment, west side, first step below bridge seat; bronze tablet stamped "456 Albany 1900"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  Otisville, 500 feet west of station, small railroad bridge over private	457. 077 780. 914
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  Port Jervis, Eric R. R. bridge over East Main Street, top of south abutment, west side, first step below bridge seat; bronze tablet stamped "456 Albany 1900"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"	457. 077 780. 914
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Eric R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  Port Jervis, Eric R. R. bridge over East Main Street, top of south abutment, west side, first step below bridge seat; bronze tablet stamped "456 Albany 1900"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  Otisville, 500 feet west of station, small railroad bridge over private road, west abutment, north side, top of bridge seat; bronze tablet	457. 077 780. 914 862. 219
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"	457. 077 780. 914 862. 219
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"  Otisville, in front of station, westbound track; top of rail	457. 077 780. 914 862. 219 857. 5
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"  Otisville, in front of station, westbound track; top of rail  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	457. 077 780. 914 862. 219 857. 5
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"  Otisville, in front of station, westbound track; top of rail  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"	457. 077 780. 914 862. 219 857. 5
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"  Otisville, in front of station, westbound track; top of rail  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"  Westtown, in foundation wall of storage building of T. G. Clark, south	457. 077 780. 914 862. 219 857. 5
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"  Otisville, in front of station, westbound track; top of rail  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"  Westtown, in foundation wall of storage building of T. G. Clark, south end of west face; bronze tablet stamped "480 Albany 1903 Adj"	457. 077 780. 914 862. 219 857. 5
[Latitude 41° 15′-41° 30′; longitude 74° 30′-74° 45′.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"  Otisville, in front of station, westbound track; top of rail  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"  Westtown, in foundation wall of storage building of T. G. Clark, south end of west face; bronze tablet stamped "480 Albany 1903 Adj"  Johnson, in foundation wall of the feed store of Simpson & Manning,	457. 077 780. 914 862. 219 857. 5
[Latitude 41° 15'-41° 30'; longitude 74° 30'-74° 45'.]  Precise leveling in 1900 by C. H. Semper.  From Sparrowbush southeast and northeast along Erie R. R. to Otisville.  Sparrowbush, in front of station, northbound track; top of rail  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"  Guymard, 600 feet north of station, railroad culvert, top of north abutment, west side; bronze tablet stamped "780 Albany 1900"  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"  Otisville, in front of station, westbound track; top of rail  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"  Westtown, in foundation wall of storage building of T. G. Clark, south end of west face; bronze tablet stamped "480 Albany 1903 Adj"	457. 077 780. 914 862. 219 857. 5 516. 367 480. 026

140 SPIRIT LEVELING IN NEW YORK, 1090-1905, 1912-1910.	•
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 "	Feet. 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" Port Jervis, in front of station, northbound track; top of east rail Port Jervis, east abutment of Pike Street highway bridge over Delaware River, south end, in southeast corner of bridge seat; chiseled circle	457. 077 439. 3 444. 50
PORT LEYDEN QUADRANGLE.1	
[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. 4 898. 400 843. 7 777. 618 761. 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"	
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"	
Constableville, in southeast corner in water table of Catholic Church, bronze tablet stamped "1260 Adj 1903"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 Car-	

penter; bronze tablet stamped "1191 Adj 1903"\_\_\_\_\_\_1, 190. 281

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	5
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	ł
center of crossroads; iron post stamped "1226 Adj 1903" 1, 225. 958 Brantinghum, 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. 296 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	3
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	
POTSDAM 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	U
"544 Adj 1903"544. 090 Potsdam, 6.5 miles south of, in south end of east abutment of highway bridge over Raquette River; bronze tablet stamped "559	3
Adj 1903" 558. 950 Colton, in foundation wall of Catholic Church, west end of south	8
face; aluminum tablet stamped "847 Adj 1903" 847. 19 South Colton, in foundation wall of Methodist Church, center of south	5
face; bronze tablet stamped "927 Adj 1903" 927. 27	5
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" 1,010.11	1
South Colton, 6.5 miles northeast of, 20 feet east of Perkins school-house, district 16, in large rock; aluminum tablet stamped "1304 Adj 1903"1, 304. 62	9
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"1,314.51	.8

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, 427, 270 903, 313
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"Potsdam, 5.7 miles east of, in top of south end of west abutment of	469. 564
highway bridge over St. Regis River; bronze tablet stamped "507 Adj 1903"Potsdam, 8.2 miles east of, in stonework of stone house owned by	507. 353
H. Converse, west end of north face; aluminum tablet stamped "648 Adj 1903"Potsdam, 11.3 miles northeast of, in brickwork of Beechertown school-	648. 351
house, west end of south face, 10 bricks from foundation wall and 16 bricks from southwest corner; bronze tablet stamped "549 Adj 1903"	548. 91 <b>6</b>
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.	
[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 "+"Poughkeepsie, city hall, in front face; aluminum tablet stamped	43. 334
"Albany 173"Poughkeepsie, south end of first bridge east of station, over small creek; point on corner first step, east abutment	172, 991 172, 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;	
Pleasant Valley, 300 feet east of station, in face of rock north side of track; bronze tablet stamped "Albany 211"	232. 57 211. 416
From Highland south along Eric R. R. to Milton.	ma.i. 110
Milton, south side of Townsend's store, in window sill; bronze tablet	
stamped "9 Albany"	9. 000

From Highland north to College Point.	
Highland, Poughkeepsie bridge, west abutment ,southwest corner, top stone; chiseled mark	31
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 8.5	
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" 576.8	306
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"1,913.2 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"	
Raquette Lake, Antlers Hotel, 30 feet west of ice house, in bedrock; aluminum tablet stamped "1811 Albany"	
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" 1,794.1	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)	

Cameron, 180 feet west of Erie station, in stone foundation of rail-road water tank; bronze tablet stamped "1048 D"	1, 048. 915 1, 033. 3 1, 007. 041
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"	987. 55 1, 308. 50 1, 406 1, 389. 58 1, 345. 43
Elkland, on West Main Street, in front face of Pattison Bank; tab-	
let 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 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"	
Addison, 3.2 miles southwest of, along State road to Woodhull, in north side of culvert; chiseled circle painted "t. b. m. 1039.5"Addison, 4.2 miles southwest of, along State road to Woodhull, in north	1, 039. 42
side of culvert; chiseled circle painted "t. b. m. 1165.0"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, 164. 94
Woodhull, 4.8 miles east of, 300 feet east of corner of road south, on south side of culvert; chiseled circle painted "t. b. m. 1165.2" Woodhull, 3.6 miles east of, on north side of concrete culvert;	
chiseled circle painted "t. b. m. 1274.0" Woodhull, 3.2 miles east of, on south side of concrete bridge, at road	
north; bronze tablet stamped "1229" 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"	

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Woodhull, 1 mile east of, on north side of concrete culvert; chiseled circle painted "t. b. m. 1304.2"	
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"	
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"	
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"  From Rathbone southwest along highways to Woodhull.	1, 674. 81
•	
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 mar-	1,001.041
gin of road; chiseled circle painted "b. m. 1391.5" Rathbone, 2.5 miles southwest of, top of concrete step, southeast	1, 391. 55
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. 1318.6"	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"	
Woodhull, 1.1 miles northeast of, at road fork east, in root, north	2, 220. 20
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" Jasper, 2.5 miles east of, near corner of Townsley School, in south	1, 542. 09
end of east abutment of bridge over Tuscarora Creek; chiseled	
square painted "t. b. m. 1461.4"	1, 460. 91
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	,
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
<u>-</u>	

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"	Feet. 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"	
Brookland school, in west end of stone culvert at corner; chiseled circle painted "t. b. m. 1772.9"	1, 772. 38
tablet stamped "1793"	
bridge; top of large center bolt painted "1263.2"Cameron, 0.5 mile west of, in north end of center pier of highway bridge over Canisteo River; chiseled circle painted "t. b. m.	1, 262. 60
1050.4"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  Cameron, 3.1 miles west of, on base of semaphore pole 317.1, 2 feet above ditch; top of southeast bolt	
Cameron, 4 miles west of, in base of semaphore pole 318.1, 2 feet above ditch; top of southeast bolt	
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 pointed "t. b. m. 1763.5"Cameron Hill school, 0.8 mile west of, in southeast quadrant of four corners on rock, 0.2 feet above ground; chiseled circle painted	1, 762. 79
"T. B. M. 1764.3"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"Cameron Hill Church, in northwest corner of top of concrete steps at front entrance; bronze tablet stamped "1754"	,
Cameron Hill school, 0.5 mile east of, in ledge in south end of triangle at road corner; chiseled circle painted "t. b. m. 1629.0"	•
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"	
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"	
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	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
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 1, 264. 66

## REDHOUSE QUADRANGLE.

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

Precise leveling in 1898 by E. L. McNair.

#### From Little Valley southeast along Eric R. R. to Salamanca.

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Little Valley, Cattaraugus County courthouse, foundation wall at southwest corner; aluminum tablet stamped "1593 D"	1, 594, 244 1, 566, 5 1, 464, 3
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, 345. 9
kirk 1899"	1, 327. 5 1, 329. 4
Wolf Run, in front of station; top of south rail————————————————————————————————————	1, 328. 9 1, 327. 018 1, 306. 6
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 1903 Adj."\_\_\_\_\_\_\_

348. 175

<sup>1</sup> See Bull. 514, p. 60, for other elevations.

## REMSEN QUADRANGLE.

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

## Precise leveling in 1900 by C. H. Semper.

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"	Feet. 1, 171. 464 1, 247. 7 1, 273. 4
Primary leveling in 1857 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 tableProspect station, Rome, Watertown & Ogdensburg R. R. crossing over highway, just north of, on lower step of south abutment, east side;	
chiseled squareProspect 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"	
Hinckley, 0.25 mile west of Empire Hotel, stone culvert north side of road, on east end of wall; chiseled square	
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"	
Northwood, on stone abutment at northwest corner of iron bridge over stream at sawmill; chiseled square	·
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"	
From Ohio south to Poland.	
Ohio, 2.6 miles southwest of, on stone foundation at northeast corner of iron bridge over Black Creek; chiseled squareCold 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"	,
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, 208. 354 1, 178. 95
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, 317. 970
REXVILLE QUADRANGLE.	
[Latitude 42°-42° 15'; longitude 77° 30'-77° 45'.]	
Leveling in 1916 by K. E. Schlachter.	
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"  Jasper, 3.8 miles south of, in east end of culvert, 50 feet south of Homer Foster's house; bronze tablet stamped "1826"  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"  Jasper, in east end of south abutment of bridge over Tuscarora Creek; bronze tablet stamped "1578"  Jasper, 1 mile north of, at road former east end of culvert; chiseled square painted "t. b. m. 1819.8"  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"  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"	1, 825. 507 1, 707. 69 1, 577. 619 1, 819. 29
[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

Clinton Corners, north end of west abutment of bridge over Salt Point Creek, in coping stone; bronze tablet stamped "Albany 244"	
Hibernia, south abutment, near end of truss bridge over creek; point on east side	251. 43
04	202, 20
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	65. <b>42</b>
West Park, West Shore R. R. station, in north wall at northwest corner; bronze tablet stamped "113 Albany"	113. 842
Esopus, at crossing; top of rail	117. 3
Esopus, 0.7 mile north of, south abutment, on east end of bridge; chiseled mark	122. 16
Ulster Park, 300 feet south of station, at crossing; top of rail	149. 7
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"Paines Hollow, 0.1 mile west of post office, southwest corner of Dr.	719. 230
Henry Green's stable; aluminum tablet stamped "1133 Albany" Newville, southeast corner of stone mill belonging to Messrs. Lewis	
& Spoor; aluminum tablet stamped "552 A"	552. 700
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_Richfield Springs, northwest corner of Gould Avenue and Church Street, southeast corner of Universalist Church; aluminum tablet	1, 329. 35
stamped "1327 Albany"	1, 327. 556
From Richfield Springs east via Warren to East Springfield.	
Springfield Center, foundation of Baptist Church; aluminum tablet stamped "1257 Albany"	1, 257. 736
East Springfield, west side of stone building used as post office; aluminum tablet stamped "1324 Albany"	1, 324. 721
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"	692. 500
•	

## 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.	
Worcester, in front of Delaware & Hudson station; top of north rail_ East Worcester, 0.75 mile west of, north end of center pier of railroad	Feet. 1, 306. 4
bridge or large culvert; aluminum tablet in capstone stamped "1406 A"	1, 405. 207
East Worcester, in front of Delaware & Hudson station; top of north rail	1, 434. 5
Richmondville, 0.6 mile west of, northeast corner of Delaware & Hudson R. R. bridge No. 31, in coping stone of east abutment wall; bronze tablet stamped "1224 A"	1 223 062
Richmondville, in front of Delaware & Hudson station; top of south	
Cobleskill, 1 mile west of, south end of culvert at west side of road crossing; chiseled square	949. 23
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.	
South Worcester, 6 feet north of southeast corner of Olmstead & Sturges's store, east side of foundation wall; aluminum tablet	1 974 010
stamped "1373 Albany 1901" East Worcester, in front of station; top of east rail	
East Worcester, 0.75 mile west of station (precise line), north end of culvert; tablet stamped "1406 Albany 1901"	1, 405. 207
From Charlotteville northeast to Summit, thence south to Stewart post office (single-spur line).	
Summit, south side wall of Jump & Havens's drug store; bronze tablet stamped "2108 Albany 1902"	2, 108, 96
Stewart, in southeast corner of post office (Martin Vroman's house); bronze tablet stamped "1364 Albany 1902"	
From Cobleskill northwest along the Cherry Valley branch of Delaware & Hudson R. R. via Hyndsville and Seward to Sharon Springs.	
Hyndsville, in front of passenger room; top of high rail Seward, in front of passenger-room door; top of rail	,
Seward, in front of wall of general store; bronze tablet stamped "1186 Albany 1902"	
Hanson's crossing; top of rail	
From Seward west along public road to South Valley (single-spur line).	
South Valley, Christian Church; bronze tablet stamped "1563 Albany 1902"	1, 563. 183

#### 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.

Jeddo, 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"	Feet. 419. 927
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"	369. 588
Eagle Harbor, Gaines Town, Erie Canal bridge 131, in lower step of east wing, towpath side; copper bolt stamped "516" (Barge canal 516.899)	515. 715
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."	27. 862
Eastport, 225 feet north of railroad station, south side of road to Speonk; iron post stamped "29 Willets Pt."	29. 780
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 light- house, upper side of water table at south-southeast angle, east of	000 100
	283. 168
the south window; chiseled cross (U. S. L. S. B. M.)	401.4
	401. 4 432. <b>1</b>
the south window; chiseled cross (U. S. L. S. B. M.)	432. 1 472. 1
the south window; chiseled cross (U. S. L. S. B. M.)	432. <b>1</b>
the south window; chiseled cross (U. S. L. S. B. M.)	432. 1 472. 1
the south window; chiseled cross (U. S. L. S. B. M.)	432. 1 472. 1 512. 22
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	432. 1 472. 1 512. 22 512. 64
the south window; chiseled cross (U. S. L. S. B. M.)	432. 1 472. 1 512. 22 512. 64 527. 10

<sup>&</sup>lt;sup>1</sup> 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	Feet.
squareGenesee Junction, West Shore R. R. bridge, northeast corner, near	538. 32
northwest corner of parapet stone; chiseled square	524. <b>75</b>
Genesee Junction, in front of station; top of east rail	<b>526. 0</b>
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	<b>527.</b> 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	<b>532</b> . <b>6</b>
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. 5 <b>3</b>
Scottsville, 800 feet north of station, south side of creek overflow	001.00
dam, on top of stone pier; bronze tablet stamped "537 Rochester	
1902"	535, 44 <b>7</b>
Scottsvillé, 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 Forest-lawn.	
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. 2 <b>3</b>
outlet of, fourth step of east abutment, north side of track, on	252. 23
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	252. 23 266. 40
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square  Forestlawn, 0.8 mile west of, railroad bridge over Webster road, on west abutment, north side of top step; chiseled square  ROSENDALE QUADRANGLE.  [Latitude 41° 45′-42°; longitude 74°-74° 15′.]	
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	266. 40
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	266. 40
outlet of, fourth step of east abutment, north side of track, on northeast corner; chiseled square	266. 40 223. 760

Stony Hollow, 0.25 mile north of, bridge 12, east abutment, south end, top stone: chisel mark	Feet. 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. 312
• • • • • • • • • • • • • • • • • • • •	531
Olive Branch, 400 feet west of station, bridge 17, west abutment,	515. 2
	<b>512</b> . <b>22</b>
, , , , , , , , , , , , , , , , , , , ,	
<u>-</u>	506. 37
	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	
·	
Albany 1902"	827. 287
From Alligerville northeast via Rosendale to Rifton.	
Alligerville iron bridge over Rondout Creek east end of south abut-	
· , ,	220. 405
	182. 5
	102.0
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
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	
Hermon, 1.9 miles southeast of, along State road to Russell, in ledge on south side of road; chiseled circle	658, 12
Hermon, 1.9 miles southeast of, along State road to Russell, in ledge	
	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"

Russell, 1.7 miles northwest of, along State road to Hermon, 350 feet east of water trough, in south side of concrete culvert; chiseled	Feet.
Russell, 0.9 mile west of, along State road to Hermon, in north side of concrete culvert; chiseled square	617. 01 571. 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 squareSouth Russell, 2.7 miles north of, at road forks, 6 feet inside of	629. 82
fence, in ledge east of road; bronze tablet stamped "645"South Russell, 0.9 mile north of, 280 feet south of corner, in east side	644. 354
of concrete culvert; chiseled squareSouth Russell post office, 200 feet south of, at road corner, in south-	697. 02
east 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. School 5 (Russell), $600$ feet south of, $90$ feet south of house, in	903. 93
rock in west margin of road; chiseled square  Dranes Corner, 0.4 mile north of, in boulder in west margin of road; bronze tablet stamped "1014"	•
Dranes Corner, in southwest abutment of bridge over Plum Creek; chiseled square	•
Dranes Corner, 1.6 miles south of, 100 feet north of divide, in boulder in east margin of road; bronze tablet stamped "1104"	
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
chiseled squareBelleville Corner, 0.6 mile east of, at road south, 150 feet south of	687. 60
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	Feet. 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"Gibbs school, 0.2 mile west of, 250 feet east of cheese factory, in	531. 709
boulder in north margin of road; chiseled circle Moore's Corner, 1.1 miles west of, 350 feet east of crossroad, in boulder	674. 37
in south margin of road; chiseled circle Moore's Corner, 0.4 mile west of, in boulder in south margin of road;	741. 27
bronze tablet stamped "Prim. Trav. Sta. No. 5, 673"	673.039
Moore's Corner, in ledge opposite T road; chiseled circle	687. 57
Star school, 0.9 mile southwest of, at corner, 20 feet north of $\ensuremath{T}$ road,	
on small boulder 50 feet west of intersection; chiseled square Star school, 0.25 mile southwest of, at corner, 50 feet south of intersection, in boulder in west margin of road; bronze tablet stamped	739, 65
" 761 "	761.287
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	0.1.02
boulder in east margin of road; bronze tablet stamped "877"	876, 509
Clare Town Hall, 150 feet north of, in 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	303. 80
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"Clare school 1, 100 feet south of, on west side of concrete culvert;	815. 798
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,	000 504
829 "	828. 534
Degrasse, at road fork, 0.1 mile north of bridge over Grass River,	054.00
on ledge; chiseled circle	854. 36
crete culvert; chiseled square	868. 12
Degrasse, 0.7 mile south of, at corner, on rock in west margin of road chiseled circle	928. 27
Degrasse, 1.7 miles southwest of, in southeast abutment of bridge	
over Plum Creek; bronze tablet stamped "904"	903. 922
From Degrasse southeast along highway to point 0.9 mile east of Clifton,	
Degrasse, 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 "963"	963. 223
Clifton, 0.9 mile southeast of, in north side of concrete culvert; chiseled square	<b>1,</b> 035. 40

## Near Edwards.

Edwards, 1.08 miles northeast of post office, on boulder 20 feet east of center of road; chiseled square	Feet. 653. 24
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" Edwards, 3.4 miles northeast of, on rock midway between road and	634. 206
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"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. <b>32</b>
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"	
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"Sellecks Corners, 2.7 miles southwest of, at three corners, in front of M. Austin's residence, in large rock; bronze tablet stamped	958. 79
"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. 828.1"	828. 68
residence, on opposite side of road, in rock; chiseled square marked	
"t. b. m. 823.6"Clare, 150 feet north of Town Hall, in southeast abutment of bridge	824. 14
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.	4 220 2
Blue Pond, in front of station; top of railBlue 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	1, 552. 7
" 1551 Albany 1900 "	
Brandon, in front of station; top of rail	1, 603. 4
"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	Feet. 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.	1, 022. 0
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.	٠
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	<b>*</b> 400 <b>FF</b>
corner of concrete dam	
Diandon, in front of station, top of fan-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	1, 000. 0
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.	
[Latitude 42°-42° 15'; longitude 78° 30'-78° 45'.]	
Precise leveling in 1898 by E. L. McNair.	
From West Salamanca southeast along Eric 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	4 004 107
right of entrance; aluminum tablet stamped "1391 Dunkirk 1899"_ Killbuck, in front of flag station; top of rail	
Carrollton, in front of station; top of rail	
Carrollton, 475 feet east of Erie station, west pier of Buffalo,	1, 001. 0
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	1 400 000
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
of road; copper bolt in boulder stamped "1529 Ft. S"Carrollton south via Limestone to New York-Pennsylvania State line.	1, 524. 144
Carrollton south via Limestone to New York-Pennsylvania State line.  South Carrollton, 1.2 miles south of, iron highway bridge crossing	
Carrollton south via Limestone to New York-Pennsylvania State line.	

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, 413. 47
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	1 510 01
Humphrey, 1.7 miles west of, 4 feet from southeast corner of iron	1, 015, 61
bridge across Wrights Creek, on stone abutment; chiseled square_ Humphrey, W. J. Sherman's hotel, in stone doorstep in front of	1, 548. 98
porch, west side; copper bolt stamped "1626 Ft. S."	1, 621. 444
SANGERFIELD QUADRANGLE,	
FT attitude 400 451 400 t langitude 750 151 750 001 1	
[Latitude 42° 45'-43°; longitude 75° 15'-75° 30'.]	
[Latitude 42° 45'-43°; longitude 75° 15'-75° 30'.]  Precise leveling in 1901 by D. H. Baldwin.	
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	
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, 198. 1 1, 152. 551
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, 198. 1 1, 152. 551 1, 148. 7
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, 198. 1 1, 152. 551 1, 148. 7
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, 198. 1 1, 152. 551 1, 148. 7 1, 138. 8
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, 198. 1 1, 152. 551 1, 148. 7 1, 138. 8
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, 198. 1 1, 152. 551 1, 148. 7 1, 138. 8
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, 198. 1 1, 152. 551 1, 148. 7 1, 138. 8
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, 198. 1 1, 152. 551 1, 148. 7 1, 138. 8 1, 134. 21 1, 423. 286
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, 198. 1 1, 152. 551 1, 148. 7 1, 138. 8 1, 134. 21 1, 423. 286

•				
North Brookfield, in foundation wall of Cedar Valley Hotel, north end of west face; aluminum tablet stamped "1201 Albany 1903 Adj"	Feet. 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"Deansboro, in foundation wall of the United States milk condensery, east end of south face; bronze tablet stamped "795 Adj 1903"Forge Hollow, 0.51 mile southeast of, in foundation of stone school house, south and of score for a supplication tablet stamped.	978. 320 795. 020			
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 railSanta Clara, in front of station; top of railSanta 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"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"				
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	1 917 99			

north abutment, on top of bridge seat; chiseled square\_\_\_\_\_ 1,817.88

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"	Feet.
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"	
Upper Iron Works, opposite Tahawas Club house, 65 feet east of road; on large rock; bronze tablet stamped "1771 Ft. Covington 1901"	
SARANAC QUADRANGLE.	,
[Latitude 44° 15′-44° 30′; longitude 74°-74° 15′.]	
Primary leveling in 1901 by C. H. Semper, in 1902 by George Seidel and A. P. Meade, jr.	
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 squareLake Placid, 4.5 miles west of, north end of east abutment of stone	1, 631. 88
culvert; top of parapet wall, chiseled square	1, 570. 97
Ames Mills, at road crossing; top of rail	
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	
Lake Clear (Saranac Junction), in front of station; top of rail Lake Clear (Saranac Junction), 800 feet south of station, railroad water tank, on top of southeast foundation stone nearest track;	
chiseled square	
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"	
From Saranac Junction northeast along New York Central & Hudson River R. R. via Paul Smith station to Onchiota.	
Saranac Junction, west side of railroad, southeast corner of foundation stone of water tower; aluminum tablet stamped "1630 Ft. Covington"	
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, 708. 5
aluminum tablet stamped "1710 Ft. Covington" From Paul Smith station east along public roads to Bloomingdale, thence north via Vermontville to Onchiota.	1, 710. 514
Bloomingdale station, road crossing; top of railBloomingdale station, iron bridge, 70 feet east of north side of road, in large boulder; aluminum tablet stamped "1530 Ft. Covington"Vermontville, 5.6 miles north of, road crossing, in large boulder; aluminum tablet stamped "1776 Ft. Covington"	1, 529. 666
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" Saratoga Springs, Loughberry Lake, surface of waterSaratoga 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	320. 848 283. 0
Albany 1899"Greenfield station, 0.33 mile north of, at southeast corner of stone culvert under railroad, in coping stone; aluminum tablet stamped "596 Albany 1899"Kings, 0.8 mile north of station, at northeast corner of stone culvert under railroad, in coping stone; aluminum tablet stamped "602 Albany 1899"	<ul><li>314. 410</li><li>596. 343</li><li>602. 834</li></ul>
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. 48 400. 49 445. 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. 598 523. 56
Kayaderosseras Creek; bronze tablet stamped "523 Albany"	523, 515

752.440

768.0

PRECISE AND PRIMARI LEVELING.	717
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 Schnectady 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 Eric 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. 604
Cobleskill, in front of Delaware & Hudson station; top of north rail Barnerville, crossing, on rock 50 feet north of railroad; chiseled	909. 1
SquareBarnerville, crossing, in front of station; top of north rail	903, 833 906, 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	=00 =0=
small bridge or open culvert; bronze tablet stamped "731 A"  Central Bridge, in front of Delaware & Hudson station; top of north  rail	730. 725 621. 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"\_\_\_\_\_\_

Esperance, in front of Delaware & Hudson station; top of north rail\_

<sup>1</sup> See Bull. 514, pp. 65-67, for other elevations.

## Primars leveling in 1898 by Clark Brown.

Primary leveling in 1898 by Clark Brown.	
From Shutts Corners to Barnerville.	
Shutts Corners, schoolhouse; east end of doorsill	Feet. 1, 145. 97 827. 253
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"	611. 077 609. 43 649. 551 754. 323 1, 157. 150
Vintonton, 0.25 mile south of, schoolhouse; south end of doorsill	1, 390. 44
From Middleburg south to Franklinton.	
Middleburg, 1.75 miles southeast of, iron bridge, north abutment, east wing, on bridge seat; chiseled square	743. 47 1, 214. 907
SCHROON LAKE QUADRANGLE.	
[Latitude 43° 45′-44°; longitude 73° 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."	
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 Eric 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.	273. 714 229. 58

Woodbury, 200 feet south of station; point on northeast foot block	Feet.
at end of truss bridgeCentral Valley, 200 feet north of station, south abutment, east end	435. 90
bridge seat; point on stone	484. 20
Central Valley, west of Noxon's store, in large stone in retaining wall	400.094
of Finken's place; bronze tablet stamped "Albany 488" (loose) Newburg Junction, 0.5 mile north of, east end of south abutment of	489. 334
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	022. 20
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) Turners, 300 feet west of, west abutment of bridge, on north end;	719. 921
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	002.02
north end	531, 92
From Oxford north to Burnside, thence east to Cornwall.	
Craigville, 300 feet north of, south abutment, east end of cattle pass;	100 10
point second step from topFarmingdale, 500 feet north of, south abutment, east end of cattle	423. 42
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 culvertCornwall, 0.4 mile east of, south abutment of Erie R. R. bridge;	337. 2
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	
[Latitude 43°-43° 15'; longitude 73° 30'-73° 45'.]	
Primary leveling in 1898 by Clark Brown.	
From Schuylerville via Burgoyne and Stafford to Saratoga.	
Schuylerville, in front of station; top of rail	<b>175.</b> 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

<sup>&</sup>lt;sup>1</sup> See Bull. 514, pp. 53-55, for additional elevations.

Burgoyne, bridge over Saratoga Lake outlet, north abutment, east face, corner of coping; chiseled square	Feet. 210. 75 217. 0 209. 9 225. 14
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)	326. 192 308. 90 245. 213
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)	105. 90 107. 15
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)	107. 36 109. 05 302. 767 331. 719
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)	103. 195 320. 234 208. 37
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"	169. 928

## 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	l R. R. to Port Jefferson, t	hence along
•	highways south to Holtsville,	thence west to Brentwood	i.

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"	Feet. 25. 740 111. 26 80. 70 191. 7
bronze tablet stamped "108 Willets"Ruland Hill, Coast and Geodetic Survey triangulation station, 1.9	107. 61
miles south of Selden; top of east stone reference post	332.86
Holtsville, north face of brick house south of track, 150 feet east of station; bronze tablet stamped "104 Willets"	103, 728
Ronkonkoma, east end of station, in grass plot, south of highway, north of track; iron post stamped "108 Willets"	108. 30
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	59. 06
highway, west end of station; spike in telegraph pole	63. 64
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)	5. 70
Patchogue, railroad freight station, north side of track, in northeast corner of brick wall; aluminum tablet stamped "15 Willets Pt."	<b>1</b> 5. 540
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	677 1e
Angola, 0.51 mile northeast of, southwest corner of truss and stone- arch bridge 228, near northwest corner of coping stone; chiseled	677. 16
squareAngola, in front of station; top of rail	680. 06 690. <b>0</b>

Farnham, southeast corner of bridge 220, in east face of parapet coping stone; bronze tablet stamped "633 Rochester 1902"	Feet. 632, 956 632, 3 610, 15 601, 7 622, 10 625, 5
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."Owasco, brook north of, on northwest seat of iron bridge; chiseled square	866, 648
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.	792. 47
B. M. 853 ft."  Owasco, 2 miles from, on north wing stone, southwest end of culvert, at forks of road; chiseled square	849, 588
Twelve Corners, house in northeast corner of road crossing, on	1, 119, 88
boulder in front yard; chiseled square 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."Sayles Corners, at south end of culvert across road from east;	1, 421. 185
chiseled squareSkaneateles Lake, bridge over south inlet at intersection of roads	1, 587. 33
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 north 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
coping stone north of parapet wall; chiseled square	<b>651. 21</b>

Marcellus, Main street, stone arch over Otisco Lake outlet (Ninemile 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."	Feet. 651. 221
From Skaneateles southeast along highway to Marietta, thence south to Glenhaven.	
Clintonville, culvert under road from south, on stone at southeast end; chiseled square	1, 087. 37
Marietta Hotel, at corner of roads to Clintonville and Rose Hill, on foundation stone north corner of plaza; chiseled squareOtisco Lake, highway bridge below State dam, on road from Marietta	796. 15
to Amber, southwest corner of bridge seat; chiseled squareOtisco Lake outlet, at west end of State dam, close to gate chamber;	776. 86
Otisco Lake outlet, east wing of State dam, in south coping stone;	782. 62
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. 1091 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"	855. 411
Kerhonkson, in water table at center of east face of New York, Ontario & Western depot; aluminum tablet stamped "254 Albany 1903"	
<sup>1</sup> Found necessary to establish a new bench mark at Otisco Lake outlet; old	···

<sup>&</sup>lt;sup>1</sup> 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	Sun-
			down	(single-s	our	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"	Feet. 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 "993 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 <b>. 941</b>
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 con-	
crete 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"	
5ta. No. 5, 1916, Elev. 1417	T, 4TO, 099
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 nort	h of, at (	Carry F	alls ro	ad, o	n eas	t side in	
large bould	ler; chiseled	square	marked	" t. b	. m.,	also	primary	
traverse poi	int 1376.1 "							1, 376. 25

McKizer's Hotel, 100 feet northeast of, in large boulder; bronze tablet		Fee	
stamped "Prim. Trav. Sta. 1356"	1, 6	306.	044
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"	- (	200	75
	1, 4	<b>400.</b>	19
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; cop-	- 4	200	70
per nail marked "t. b. m. 1222.7"	1, 2	222.	19
McKizer's Hotel, 3.1 miles northwest of, in southeast corner of			
foundation of George Rodwell's residence; bronze tablet stamped	٠, ١	205	710
"Prim. Trav. Sta. 1208"	1, 4	201.	112
McKizer's Hotel, 3.6 miles northwest of, on northeast side of cement	1 -	174	01
culvert over Cold Brook; chiseled square marked "t. b. m. 1174.2"_	1, .	174.	91
McKizer's Hotel, 4.7 miles northweest of, 500 feet southeast of Ed			
Cayey residence, on northeast side of road, in root of tree; copper	٠.	1 45	^^
nail marked "t. b. m. 1147.7"	1, .	147.	90
McKizer's Hotel, 4.9 miles northwest of, 130 feet northwest of corner,			
in cement culvert on southwest side of road; chiseled square		000	
marked "t. b. m. 1092.3"	1, (	092.	48
McKizer's Hotel, 5.3 miles northwest of, 100 feet southwest of Cold			
Brook school district 3, in large rock; bronze tablet stamped		~~~	000
"1053"	1, (	J53.	326
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
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
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
South Colton, on northeast corner of road opposite Catholic Church,	٠.		
in rock; chiseled square, marked "t. b. m. 912.2"	,	912.	33
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
From Colton west along highways to Sellecks Corners and 1 mile south.			
From Colton west slong nighways to Selectas Colhers and I hale 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 "	8	885.	89
South Colton, 2.5 miles west of, at four corners opposite Littlejohn			
schoolhouse, in bedrock; chiseled square marked "t. b. m. 994.9"	9	995.	32
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."	9	980.	850
Philips Corners, three corners, on south side of road, in rock; chiseled			
square marked "t. b. m. 1026.2"	1, (	026.	66
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, (	)15.	1.7
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			
mayland #4 h m 1097 9 2	4 6	707	04

in large rock; bronze tablet stamped "P. B. M. 1014." Sellecks Corners, 1.1 miles south of, on flat, at top of hill, east side	1, 014. 843
of road in rock; chiseled square marked "t. b. m. 1,073.0"	1,073.04
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	923. <b>7</b>
Hancock, southeast corner of bridge 18, on foundation stone; chiseled 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 Eric R. B. to Stockport.	
Hancock, in front of station, northbound track; top of rail	923. 7
Stockport, in front of station, northbound track; top of rail Stockport, 1.1 miles south of bridge 17, west abutment, south side,	891.9
on top of second step; bronze tablet stamped "882 Albany 1900"	882. <b>904</b>
Leveling in 1915 by K. E. Schlachter.	
At Cadosia.	
Cadosia, New York, Ontario & Western Ry. (Scranton branch) bridge B1, in southeast corner of concrete abutment; bronze tablet 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"	•
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 Feet. of river; copper bolt in rock, stamped "U. S. G. S. B. M. 1280 Ft." 1, 275. 948

#### SYRACUSE QUADRANGLE.1

[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" Syracuse, Geddes Street bridge 90, pier at foot of west towpath	404. 320
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	389. <b>3</b>
Syracuse, West Colvin Street bridge over Onondaga Creek, north end of west abutment, northwest corner of top stone; chiseled sourre	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
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

<sup>1</sup> 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"	Feet. 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	1 400 040
"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	021.0
wall; bronze tablet stamped "355 Cape Vincent"	<b>354. 243</b>
Sanford, in front of station; top of rail	<b>470. 3</b>
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
Cape vincent	002. 400
From Felts Mills north to Evans Mills (single-spur line).	
Evans Mills, at southeast corner of crossroads, in north face of lime- stone building of Wesley Rulison (post-office building), 2.3 feet east of northwest corner; bronze tablet stamped "431 Cape Vincent"	430, 88
of northwest corner, broade tubiet stamped 101 oupe vincent 22	400.00
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"	975 015
stamped 510 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"	<b>3</b> 58. 293

#### 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"	Feet. 1, 072. 257
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	
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"	
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"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	1 000 501
bolt stamped "U. S. G. S. 1874 Ft. B. M" 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.	1, 869. 761
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

<sup>&</sup>lt;sup>1</sup> 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:

Date.	Authority.	Location of reference gage.	Elevation (feet).
1857-58 1875 1877 1889 1894 1893-1895 1893-1895 1898-99	Lieut. J. B. Williard, Corps of Engineers. O. H. Tittman, Coast and Geodetic Survey. Deduced from West Shore R. R. levels. Coast and Geodetic Survey (mean of two following lines). Coast and Geodetic Survey from Boston. Coast and Geodetic Survey from Sandy Hook Coast and Geodetic Survey Report Appendix 8, p. 414.	Governors Island	16. 01 13. 64 14. 07 13. 22 13. 732

TABLE No. 5.—Elevations of the Greenbrush bench mark.

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 Greenbush 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.

Solvay water tank, west side of road, opposite tank; chiseled square on north side of rim of valve casing	Feet. 567. 57
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"  Tully Center, 1.5 miles north of, 700 feet north of road west to	676. 192
Vesper, 500 feet south of curve in road, on boulder in southwest corner of barnyard, west side of road; copper bolt stamped "S 819"_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"	819. 617 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 Jamesville, 0.75 mile south of, at east end of reservoir dam, in coping;	992. 25
cross mark on bronze tablet stamped "S 645"	645. 493
TUPPER LAKE QUADRANGLE.	
[Latitude 44°-44° 15'; longitude 74° 30'-74° 45'.]	-
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"Long Lake West, 215 feet north of People's Hotel, 30 feet east of track,	1, 762. 673
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	1, 101, 101
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" Little Tupper Lake, head of, at Loomis's camp, 150 feet southeast of	1, 838. 171
camp, 25 feet from barn, north face of large boulder; aluminum tablet stamped "1760 Albany"	1 750 446
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"	
	_,

# 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,
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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"Bainbridge, in front of station; top of north railBainbridge, 2.75 miles east of, southwest corner of bridge 84, in coping stone of abutment; bronze tablet stamped "989 A"Sidney, 0.25 mile west of Delaware & Hudson station, at crossing of Delaware & Hudson and New York, Ontario & Western railroads; top of railSidney, in front of Delaware & Hudson station; top of south rail	989. 6 990. 9 993. 1	376 2 374 3
Unadilla, in front of Delaware & Hudson station; top of south rail Unadilla, Union School building, foundation wall at left of main entrance; aluminum tablet stamped "1024 A"	,	
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 rail- road bridge; chiseled square	1, 072, 8 1, 049, 9	3
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, 035.7 1, 047.5	71.0
coping; chiseled square	1, 020.	18
. Western Ry., top of east rail, main line	990. 9 1, 159. 3 1, 238. 3 1, 386. 8	9 3 3
trestle tower from east end, in top of old pier, aluminum tablet stamped "1344 Albany 1901"	1, 344.	<b>4</b> 05
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 railParker, at road crossing near station; top of rail		
rainer, at road crossing hear station, top or ran	-, TAU.	

Guilford, at road crossing by station; top of rail	1, 520, 6	
Guilford, northwest corner of Episcopal Church, front face; aluminum tablet stamped "1511 Albany"		
Leveling in 1915 by K. E. Schlachter.		
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. 71	10
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	3
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" Gilbertsville, 2 miles south of, in west side of concrete culvert, 50	1, 036. 27	7
feet south of milestone; bronze tablet stamped "N. Y. 1091"	1, 091. 26	60
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, 8	3
Gilbertsville, in face of east wall of bridge over Millard's Brook, at		
park, near Major's Inn; bronze tablet stamped "N. Y. 1108"Gilbertsville, 1.25 miles east of, on crossroad, in southeast abutment	1, 107. 70	08
of bridge over Cahoon Brook; chiseled circle painted "t. b. m.	,	
Maple Grove, 2 miles west of, at road fork, in bowlder 3 feet inside	1, 088. 68	8
of wall, in triangle 200 feet east of corner; bronze tablet stamped "N. Y. 1283"	1, 282. 50	0 <b>6</b>
Gilbertsville, 3.9 miles east of, at road corner north, in north side of	1 950 5	
stone culvert; chiseled circle painted "t. b. m. 1359.8" Maple Grove, 0.9 mile south of, 150 feet west of three corners, on	1, 509. 77	Z
north side of road; bronze tablet stamped "1470" (set 1914)	1, 469. 6	02
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.		^
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.		U
1183"	1, 183. 30	0
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		Q
" U. S. T. B. M. 1373 "	1, 373 0	
"U. S. T. B. M. 1373"  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		
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. 4	
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	1, 325. 4	5

### UTICA QUADRANGLE.1

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

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	-500. 42
stamped "B. M." on south face	431. 56
Uttca, 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.	٠
Utica, Turner Street, Herkimer-Oneida county line, on fence line between the New York Central & Hudson River R. R. and trolley	
tracks; bronze meridian tabletUtica, Albany Street, Starch Factory Creek, stone-arch bridge, north	466. 329
abutment, west wing; northeast corner of top step Utica, the Delaware, Lackawanna & Western and Rome, Watertown	522. 90
& Ogdensburg railroads; northwest corner of foundation of north-	400.70
west 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 " $\oplus$ "	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

# From Utica north via Trenton plank road to South Trenton.

Deerfield, J. A. Auert's brick building, middle door; north corner of stone doorsill	Feet. 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	<b>7</b> 55. 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 squarePoland, first iron bridge over Cold Brook northeast of village, in foundation stone, east abutment, north wing; copper bolt stamped	720. 38
"U. S. G. S. B. M. 800 Ft."Poland, 0.5 mile south of, north wing of iron highway bridge over	798. 841
West Canada Creek, on east abutment bridge seat; chiseled square_ Newport, northeast corner of Newport Bank building; water table	690. 86 657. 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. 450 408. 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. 793
WADDINGTON 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"	<b>354.</b> 95 <b>3</b>

# 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"	Feet. 348, 942
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 Ry. to Rock Rift.	
Northfield, 5.95 miles southeast of, southeast corner of bridge, on foundation stone; chiseled square	1, 312. 68 1, 233. 4
aluminum tablet stamped "1215 Albany 1901"Pine, switch crossing; top of southeast rail	
Beerston, at crossing, main track; top of south railRock 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	1, 181. 3
" 1214 Albany 1901"Rock Rift, in front of station; top of east rail	
	1, 120. 0
Leveling in 1915 by K. E. Schlachter.	
From Hamden west along New York, Ontario & Western Ry. to Walton.	
Hawleys station; top of west rail with painted arrow, painted "t. b. m. 1,259.9"Hawleys station, 0.5 mile southwest of, on ledge in east margin of	1, 259. 95
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"Colchester station, 0.25 mile northeast of, in ledge, west side of	1, 235. 06
track; bronze tablet stamped "N. Y. 1254"	1, 253. 855
Colchester, in front of station; top of rail	<b>1,</b> 265. <b>3</b>
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 north- east corner of Ogden Free Library, east face of water table; alu- minum tablet stamped "N. Y. 1215" (Bull. 281, p. 20)	
Walton, in southwest corner of North and Gardiner streets, in north- east corner of Ogden Free Library, east face of water table; alu-	

East Branch, 1 mile north of, along Delaware & Northern R. R., in ledge, in northeast corner of intersection with highway; chiseled	Wood.
circle painted "t. b. m. 1,032.0"	Feet. 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"	
Harvard, in front of station; top of rail	
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" 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"	
Shinhopple, in front of station; top of railShinhopple station, 1 mile northeast of, 360 feet west of concrete culvert in boulder, south margin of track; bronze tablet stamped	1, 096. 5
"N. Y. 1088"	1, 088, 116
Gregorytown, in front of station; top of rail	
Corbett station, 0.8 mile southwest of, on boulder in east margin of track; chiseled square painted "t. b. m. 1094.5"	
Corbett station, 450 feet northeast of, in southwest abutment of rail-	
road 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. 1,096.1"	1 006 20
WATERTOWN QUADRANGLE.	1,000.20
[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 $42^{\circ}$ $15'-42^{\circ}$ $30'$ ; longitude $76^{\circ}$ $45'-77^{\circ}$ .]	
[Latitude 42° 15'-42° 30'; longitude 76° 45'-77°.]  Primary leveling in 1898 by W. W. Gilbert.	
Primary leveling in 1898 by W. W. Gilbert.  From Millport to Burdett.	
Primary leveling in 1898 by W. W. Gilbert.	710. 627

Montour Falls, 1.37 miles south of, south abutment of Northern Central Ry. bridge over highway, on top stone; chisel mark	509. 77 457. 8 467. 23 461. 47
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"	1, 003. 437
south abutment of railroad bridge over intersection of highways; iron bolt (Lehigh Valley bench mark 307)	
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	1, 090. 62
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"	1, 054. 623
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 Mill-port.	
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	1, 009. 1
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	1, 342. 56

Beaverdams, 0.75 mile south of, on abutment at northwest corner of iron highway bridge over small stream; chisel mark	1, 234. 32 1, 263. 179 1, 260. 93
From Watkins station north along highway to Reading Center.	1,000.10
Reading Center, in foundation south side of Baptist Church, 4.5 feet from southeast corner, fourth course from top; bronze tablet stamped "1253 D"	
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) 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"	
WAVERLY QUADRANGLE,	340. 562
[Latitude 42°-42° 15'; longitude 76° 30'-76° 45'.]	
Precise leveling in 1898 by E. L. McNair.	
From Wellsburg east along Eric 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. 204 825. 2
Chemung, in front of Erie Station, westbound track; top of north	811. 3
Waverly, in front of Erie Station, westbound track; top of north	829. 9
Waverly, city hall building on Broad Street, stone column between doorways; aluminum tablet stamped "840 A"	
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 "A 1160"	

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The state Table Walley D. D. shinds I work on the Africa de	
Erin station, Lehigh Valley R. R.; chiseled mark on top of foundation, 6 feet south of northeast corner	Feet.
Erin station, in front of east line of; top of rail	
Park station, south side of water tank; iron pin in foundation	1, 211
(Lehigh Valley R. R. bench mark)	1, 500, 39
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)	1, 391, 84
Park Station, 1.75 miles east of, on Lehigh Valley R. R.; iron pin in top of south end of east abutment of trestle (Lehigh Valley R. R.	_,
bench mark 19)	1, 304. 57
Swartwood, east corner of water tank; iron pin in foundation (Le-	
high 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 founda-	
tion, north wing; aluminum tablet stamped "A 1054"	1, 054. 479
Van Etten, Warner Street crossing of Lehigh Valley R. R., Elmira & Cortland branch; top of rail	1, 005. 69
Van Etten, southeast corner of Waverly and Warner streets; water	
table at northwest corner of new brick building	1, 018. 84
Van Etten Junction, crossing of Elmira & Cortland branch of Lehigh	000.0
Valley R. R.; top of rail Van Etten Junction, 0.87 mile south of, southeast abutment of iron	992. <b>2</b>
highway bridge over Cayuta Creek, 200 feet west of Lehigh Val-	
ley R. R.; iron pin (Lehigh Valley R. R. bench mark)	970. 32
Reniff, southeast corner of highway bridge over Cayuta Creek; chisel	0.0.02
mark on shoe	· 916. 94
WAYLAND QUADRANGLE.	
[Latitude 42° 30'-42° 45'; longitude 77° 30'-77° 45'.]	
Primary leveling in 1901 by C. H. Semper.	
From South Livonia along Eric R. R. to Wayland, thence east to Atlanta.	
Webster Crossing, 900 feet north of station, road crossing; top of rail	1, 339. 1
Webster Crossing, Hill & Webster's general store, north face near northeast corner; bronze tablet stamped "1363 Rochester 1901"_	1, 362, 428
From point 2 miles east of Hemlock south along highway to Springwater.	2,002.120
Canadice, northwest corner of church sheds, at margin of roads, on large rock foundation; aluminum tablet stamped "1569 Rochester 1901"	1, 568. 855
Tabor Corners, in west face of schoolhouse, aluminum tablet stamped "1863 Rochester 1901"	·
Springwater, schoolhouse on road to station, in front face at north-	1, 802. 338
east corner; aluminum tablet stamped "970 Rochester 1901"	969. 707
From Wayland west along Delaware, Lackawanna & Western R. R. to Groveland.	
Wayland, in sidewalk in front of Lackawanna schoolhouse; alumi-	

Wayland, road crossing near Delaware, Lackawanna & Western station; top of rail	1, 025. 1
WEEDSPORT QUADRANGLE,1	
[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 Ira station, about 700 feet southwest of station, in northeast corner	419. <b>7</b>
of water table of brick house; bronze tablet stamped "430 Oswgo". Cato, highway crossing 200 feet north of station; top of east rail,	431. 585
main trackCato, northwest corner of Main and North streets, southeast corner of water table of brick building; aluminum tablet stamped "461	419. 0
Oswego "	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"Port Byron, West Shore R. R.; top of north rail	450. 454 396. 8
Port Byron, Canal Street highway bridge over Erie Canal, east wing	
of towpath abutment; copper bolt Port Byron, highway bridge just east of Canal Street, east wing	406. 63
of towpath abutment; copper bolt Port Byron, lock 52, fourth step from west end of north side lock	407. 54
pier; copper bolt (N. Y. 352) Port Byron, lock 52, east hollow quoin south side of lock; head bolt	403. 279
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 Oswego" Weedsport, Methodist Episcopal Church, on south side of Brutus Street, in front face of east end of foundation wall; bronze tablet	417. 449
stamped "433 Oswego"	433. 256
WELLSVILLE QUADRANGLE.	
[Latitude 42°-42° 15'; longitude 77° 45'-78°.]	
Precise leveling in 1898 by E. L. McNair.	
From Scio east along Eric R. R. to Tip Top summit.	
Scio, in front of Erie station; top of south rail	1, 519. 6

<sup>1</sup> See Bull. 514, pp. 88-90, for other elevations.

•	
Andover, 3 miles west of, stone steps of iron-girder railroad bridge 8; bronze tablet stamped "1573 D"	1, 574. 208 1, 650. 2 1, 676. 105
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. McDiarmid.	
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 2, 355. 722
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"	
road; aluminum tablet stamped "2049 A" Kenwells, 3,150 feet northeast of, north side of road to Fourth Lake and Wakely dam, in large rock; aluminum tablet stamped "1854 A"	2, 049. 583
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"	
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" Westfield, in northwest corner of masonry foundation of public-school building, 2.5 feet above ground; bronze tablet stamped "748 D"	1, 214. 183
From Mayville west to Volusia.	
Volusia, foundation of Methodist Church, in front of south side; bronze tablet stamped "1557 Dunkirk 1902"	

#### 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	Feet.
face; bronze tablet stamped "1241 Alban	ny 1903 Adj "	1, 240, 525

#### 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)	1, 276. 32
Ohio, 750 feet west of corner near church, 1,200 feet east of school-	
house and 80 feet north of road, in field belonging to G. Johnson;	
copper bolt stamped "1374 R"	<b>1,</b> 373. 809

#### 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 "	1, 401. 249
Nobleboro, 225 feet east of hotel, 4 feet from fence on north side of	
road, on small boulder; chiseled square	1, 418. 71
Nobleboro, 2.4 miles north of, 225 feet west of Haskell Hotel, 8 feet	
south of center of road, on large boulder; chiseled point (State	
bench mark 9)	1, 574. 23

# From Salisbury Center north along road to Morehouseville.

[The error distributed in this line is excessive.]

#### From Nobleboro to Morehouseville.

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)\_\_ 1,909.720

#### 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	985.4
Richfield Junction, in front of new station; top of east rail, main	
track	1 176 7

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"Richfield Junction, 1.15 miles south of, about 250 feet north of red tool house, summit of railroad; top of east rail	Feet. 1, 221, 512
Primary leveling in 1909 by G. M. Dimmick.	
From Bridgewater east along the Delaware, Lackawanna & Western R. R. to Richfield Springs.	<b>,</b>
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 "1182 Albany 1903 Adj"	; !
East Winfield, 880 feet east of station; top of railroad milepost 298 Cedarville, in foundation wall of station, east end, north face; bronze	
tablet stamped "1292 Albany 1903 Adj"Millers Mills, in foundation wall of station, north end, east face;	
bronze tablet stamped "1410 Albany 1903 Adj " Millers Mills, 2.64 miles east of; top of milepost 304 South Columbia, in foundation wall of Methodist Church; bronze tab-	1, 472. 14
let stamped "1476 Albany 1903"South Columbia, 2.02 miles east of, top of railroad iron milepost 808_	1, 476. 007
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"	
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"	
Denison Corners, in foundation wall of the residence of A. A.  Wolleber, south end of west face; bronze tablet stamped "1315  Adj 1903"	
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" West Exeter, in foundation wall of the store of Denis Harrington, north end of west face; bronze tablet stamped "1320 Adj 1903"	1, 755. 843
Exeter, in wall of stone store occupied by P. J. Horan, north end of west face; bronze tablet stamped "1656 Adj 1903"	
Schuyler Lake, in wall of Universalist Church, south end, west face; aluminum tablet stamped "1313 Adj 1903"	1, 312. 548

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