

NEW YORK.

PRIMARY TRAVERSE.

Andes, Delhi, Livingston Manor, Margaretville, and Walton quadrangles.

DELAWARE, SULLIVAN, AND ULSTER COUNTIES.

The geographic positions in the following list are on North American datum. They are based upon Andes triangulation station and were determined by F. J. McMaugh in 1916.

Lines were run approximately around the borders of Andes quadrangle and east-west along Delaware & Northern R. R. through the center of the quadrangle.

For other positions in New York see United States Geological Survey Bulletins 122, 181, 201, 216, 245, 276, 310, 440, 496, 551, and 644; part I of the Eighteenth, Nineteenth, Twentieth, and Twenty-first Annual Reports; Appendix EEE to Report of the Chief of Engineers, United States Army, 1902, Records of the U. S. Coast and Geodetic Survey. Triangulation by New York State Survey in 1887.

ANDES QUADRANGLE.

South along highways near east border of quadrangle. (By F. J. McMaugh in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
Andes triangulation station, 1.4 miles northwest of, near Mr. Dolg's house, intersection of road east with Gladstone Hollow road, 24.2 feet northeast to southwest corner of ice house, 28 feet southeast to corner of stone wall	42° 13' 39.4"	74° 45' 37.4"	Feet.
Andes post office, 2.3 miles north of, fork in roads, 15 feet west to Harley H. Shaver's mail box, 30 feet southwest to telephone pole, painted "T. P. 1906"	42° 12' 45.5"	74° 46' 03.1"	5,790
Andes post office, 1.5 miles north of, small stone bridge over stream; center	42° 12' 00.4"	74° 46' 00.1"	4,575
Andes post office, 0.75 mile north of, at north edge of village, road forks, 15 feet north to sign on tree "Delhi 12 1/2 miles," 25 feet southeast to signpost marked "C. H. No. 982, Delhi 13 1/2 miles, Margaretville 9 1/2 miles"	42° 11' 39.0"	74° 46' 16.4"	2,482
Andes post office, 0.25 mile west of, in northeast corner of east abutment of highway bridge, about 900 feet east of railroad station; bronze tablet stamped "Prim. Trav. Sta. No. 1, 1916, Elev. 1,594"	42° 11' 18.2"	74° 47' 17.2"	5,039
Andes, 1 mile south of, road forks, 30 feet northeast to 12-inch maple tree, 40 feet southwest to 12-inch maple tree	42° 10' 29.7"	74° 47' 22.2"	4,926
Andes, 1.3 miles south of, in center of grass triangle at T road east, near painted elevation "1541"	42° 10' 14.2"	74° 47' 18.9"	1,586
Andes, 2 miles southeast of, at farm road north, mail box of William Neal; post is painted "2036"	42° 10' 03.6"	74° 46' 23.0"	4,351
Andes, about 2.5 miles south of, on west side of road; center of large rock, painted "2204"	42° 09' 46.3"	74° 46' 18.7"	1,775
Andes, 2.6 miles south of, at top of hill, on east side of road; at southwest corner of milk stand, about 35 feet northeast of stone in wall, painted "2293"	42° 09' 43.6"	74° 46' 11.4"	620
Andes, 3 miles south of, at triple mail box and boulder, painted "1945", T road east	42° 09' 23.0"	74° 46' 01.6"	2,208
Andes, 3.7 miles south of, 0.25 miles south of Mr. Hamilton's house; south corner of small wooden bridge	42° 08' 47.7"	74° 45' 44.1"	3,812
Arena, 2.4 miles north of; southwest corner of schoolhouse No. 5	42° 08' 21.8"	74° 45' 24.6"	3,008
Arena, 2 miles north of, T road northeast	42° 08' 03.2"	74° 45' 19.5"	1,917
Arena, 1.1 miles northwest of, center of small stone-arch bridge over creek	42° 07' 18.8"	74° 45' 00.3"	4,727

ANDES QUADRANGLE—Continued.

Along Delaware & Northern R. R.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Arena, 1.5 miles west of, center of track at railroad crossing, 25 feet east to "B. M. 1234".....	42 06 47.0	74 45 59.8	.....
Union Grove, 1.70 miles east of, and 0.5 mile west of Jacksonburg siding, in southwest corner of railroad bridge 12; bronze tablet stamped "Prim. Trav. Sta. No. 2, 1916 N. Y. Elev. 1,227".....	42 06 34.3	74 46 28.1	2,496
Union Grove, 1 mile east of bridge 13.....	42 06 06.6	74 46 59.9	3,684
Union Grove, 0.18 mile southwest of railroad station, in top of and at south end of west abutment of steel bridge over East Branch; bronze tablet stamped "Prim. Trav. Sta. No. 15, 1916, Elev. 1,218 feet".....	42 05 24.9	74 47 53.9	5,876
Union Grove, highway bridge over stream through village, center of road at northeast end.....	42 05 14.2	74 47 47.7	1,181
Union Grove, 0.9 mile southeast of, about 250 feet south of Union Grove Mill, T road east at mail box.....	42 04 52.9	74 46 49.8	4,873
Union Grove, 2 miles southeast of, at Charles Lynn's mail box, T road east.....	42 04 27.6	74 45 43.4	5,623
Union Grove, 2.9 miles southeast of, 700 feet northwest of William Reed's house, intersection of road southeast through woods.....	42 03 53.8	74 45 01.0	4,686
Union Grove, 3.6 miles southeast of, barway in fence at north edge of Lou Smith's farm.....	42 03 13.5	74 45 03.5	4,086
Lewbeach, 4 miles north of, 13.4 feet southwest of, southwest corner of Lou Smith's house, 40.35 feet southwest of southeast corner of house; nail in stake.....	42 03 00.6	74 45 17.8	1,697
Lewbeach, 3.2 miles north of, barway at north edge of Barnhardt's farm, wire fence uphill, rail fence downhill, 10 feet west to trespass notice.....	42 02 20.1	74 45 06.1	4,192
Lewbeach, 2.6 miles north of, at south edge of Barnhardt's farm, about 125 feet southwest of barn, barway in fence.....	42 01 53.0	74 44 59.5	2,789
Lewbeach, 2 miles north of, east end of Towse Bridge over Beaver Kill.....	42 01 17.2	74 45 09.3	3,698

Along highway near south border of quadrangle.

Lewbeach, 1.5 miles north of, in north end of east abutment of highway bridge over Beaver Kill on the Beach Hill Brook road; bronze tablet stamped "Prim. Trav. Sta. No. 3, 1916 N. Y.".....	42 01 07.0	74 45 44.6	2,858
Lewbeach, 0.8 mile northeast of, near Arthur Jones's house, at corner of stone wall and wire fence, large maple tree said to be on Sullivan-Ulster county line.....	42 00 46.3	74 46 19.1	3,339
Lewbeach, 40 feet east of east end of bridge, crossroads.....	42 00 18.7	74 47 06.6	4,548

North along highways and railroad near west border of quadrangle.

Downsville, north rail at road crossing, just northeast of railroad station.....	42 04 19.6	74 59 24.7	.....
Downsville, in northeast abutment of first (and smaller) highway bridge north from railroad station toward village; bronze tablet stamped "N. Y. 1103, Prim. Trav. Sta. No. 8, 1916".....	42 04 30.2	74 59 22.8	1,083
Downsville post office, 200 feet southeast of, southeast end of highway bridge.....	42 04 49.9	74 59 42.6	2,490
Downsville, 1.1 miles northeast of, 125 feet southwest of road forks, center of small wooden bridge.....	42 05 40.0	74 59 05.9	5,778
Downsville, 2 miles northeast of, just north of white house on hillside, south of unpainted house and large barn, center of bridge over Telford Brook.....	42 06 27.0	74 59 14.0	4,791
Downsville, 2.2 miles north of, opposite door of schoolhouse 13, center of road.....	42 06 36.4	74 59 22.1	1,129
Downsville, 3.4 miles north of, 140 feet south of road fork, center of small stone-arch bridge.....	42 07 38.2	74 59 40.3	6,409
Hamden station, opposite north end of; center of track.....	42 11 25.1	74 59 46.0	.....
Hamden station, 0.5 mile northeast of, 200 feet west of covered bridge, railroad crossing.....	42 11 44.9	74 59 23.3	2,642
Delancey station, 240 feet south of, in east side of concrete culvert; bronze tablet stamped "Prim. Trav. Sta. No. 9, 1916. Elev. 1285".....	42 12 34.2	74 58 41.3	5,903
Delancey station, 1.2 miles northeast of, road crossing.....	42 13 31.1	74 58 00.6	6,528
Fraser's station, 0.75 mile south of, opposite milepost "N. Y. 192"; top of east rail.....	42 13 58.2	74 57 59.7	2,746
Fraser's station, 650 feet south of, in southwest abutment of railroad bridge 21, over Platner Brook; bronze tablet stamped "Prim. Trav. Sta. No. 10, 1916, N. Y. Elev. 1323".....	42 14 36.0	74 57 49.5	3,899

ANDES QUADRANGLE—Continued.

East along highways near north border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Sherwood Bridge, 1.6 miles southeast of, fork in roads	42 14 56.4	74 54 39.3	.....
Sherwood Bridge, 2.2 miles southeast of, at T road south, 12 feet north of five mail boxes, 6 feet east of culvert, on turn post	42 14 33.4	74 54 07.5	3,342
Sherwood Bridge, 2.75 miles southeast of, near H. S. Covert's house, fork in road	42 14 40.4	74 53 32.9	2,703
Sherwood Bridge, 3.1 miles southeast of, 40 feet from milk stand, at second-class road south	42 14 46.8	74 53 11.7	1,718
Sherwood Bridge, 3.8 miles southeast of, 40 feet southwest of barway opposite sugar house, 0.25 mile east of the Buckley place, 6 feet north of center of road; nail in hub	42 14 21.3	74 52 02.0	5,851
Bovina Center, 4.5 miles southwest of, fork in roads, signboard reads, "This highway discontinued by order of superintendent of highways"	42 14 01.0	74 51 37.9	2,739
Bovina Center, 3.9 miles southwest of, in clearing, 400 feet north of sheep barn, culvert	42 13 58.3	74 50 57.9	3,021
Bovina Center, 2.9 miles southwest of, 98 feet southeast of road fork, 50 feet south of road, in cleared field belonging to Louisa M. Gerry, in boulder; bronze tablet stamped "Prim. Trav. Sta. No. 11, 1916 N. Y."	42 14 15.2	74 50 05.6	4,293
Bovina Center, 2.6 miles southwest of, at road into Gerry estate; gate post painted "1886"	42 14 17.2	74 49 44.0	1,635
Bovina Center, 2.2 miles southwest of, T road south	42 14 32.7	74 49 25.0	2,124
Bovina Center, 1.6 miles southwest of, sign post reads "Delhi 7½ miles, Andes 5 miles, Bovina Center 2½ miles," "C. H. No. 951" intersection of crossroads	42 14 40.5	74 48 44.6	3,137
Bovina Center, 1.5 miles southwest of, intersection of road north-east with State road	42 14 27.4	74 47 53.8	4,047
Bovina Center, about 1.5 miles south of, 100 feet north of Coulter schoolhouse, at road forks, 8 feet east of t. b. m. on large boulder; elev. 1773	42 14 38.4	74 47 42.7	1,392
Bovina Center, about 1.5 miles southeast of, at west end of grass triangle at T road north, 5 feet south of I. P. Hafeles's mail box	42 14 21.2	74 46 46.6	4,566
Tunis Lake, northwest of, second-class crossroads	42 14 18.8	74 46 37.0	769

East along Delaware & Northern R. R. through center of quadrangle.

Downsville, 1.20 miles east of, opposite switchstand, center of track	42 04 20.5	74 58 03.4	.....
Downsville, 3.3 miles east of, in top of south wall of culvert, 4 feet west of east end, stamped "Prim. Trav. Sta. No. 12, 1916. N. Y. Elev. 1,123"	42 04 50.1	74 55 40.2	11,210
Pepacton, 0.6 mile west of, east wall of culvert 22	42 04 34.3	74 54 10.0	6,995
Pepacton, 200 feet west of, in northeast corner of bridge 17; bronze tablet stamped "Prim. Trav. Sta. No. 13, 1916 N. Y. Elev. 1,146"	42 04 45.2	74 53 29.6	3,245
Pepacton, 0.9 mile east of, west end of double span bridge 20	42 04 58.0	74 52 28.2	4,812
Pepacton, 2.1 miles east of, east abutment of bridge 19	42 04 50.2	74 51 07.9	6,116
Shavertown, public-road crossing, 0.5 mile southwest of, west rail at	42 05 25.1	74 50 41.3	4,073
Shavertown station, road crossing at	42 05 41.0	74 50 15.4	2,532
Shavertown station, 0.3 mile east of, in southeast corner of railroad bridge over Trempier Kill; bronze tablet stamped "Prim. Trav. Sta. No. 14, 1916 N. Y. Elev. 1,187"	42 05 43.3	74 49 55.5	1,523
Shavertown station, 0.9 mile east of, opposite west end of stone culvert, south rail	42 05 21.7	74 49 23.1	3,282
Andes Junction, switchstand at	42 05 16.4	74 48 19.3	4,847

Magnetic declination for north border of quadrangle, 10° 46' W.; for south border of quadrangle, 10° 14' W.; for east border of quadrangle, 10° 36' W.; for west border of quadrangle, 10° 45' W.

DELHI QUADRANGLE.

East along highways and New York, Ontario & Western Ry. in south part of quadrangle. (By F. J. McMaugh in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Fraser station, 0.6 mile northeast of, railroad crossing.....	42 15 05.0	74 57 39.6	.....
Fraser station, 1.1 miles northeast of, 300 feet north of bridge 22, road crossing.....	42 15 28.2	74 57 19.6	2,791
Fraser station, 1.3 miles northeast of, center of bridge 23, over highway.....	42 15 27.3	74 57 02.6	1,283
Fraser station, 2 miles northeast of, road crossing, south rail at.....	42 15 26.8	74 56 12.4	3,775
Fraser station, 2.3 miles northeast of, at road crossing, center of track.....	42 15 35.5	74 55 59.8	1,297
Sherwood Bridge, 210 feet north of north end of, T road south.....	42 15 38.8	74 55 45.8	1,107
Sherwood Bridge, 0.5 mile southeast of, near poor farm, T road southeast.....	42 15 14.7	74 55 51.1	2,472
Sherwood Bridge, 1.2 miles southeast of, near three mail boxes and milk stand, fork in roads.....	42 15 00.7	74 55 06.2	3,662

LIVINGSTON MANOR QUADRANGLE.

West along highways near north border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Lewbeach, 0.5 mile southwest of, fork in roads, farm road south uphill.....	41 59 54.2	74 47 26.2	.....
Lewbeach, 1.2 miles southwest of, 100 feet northeast of small red barn near two white houses, center of small wooden bridge over stream.....	41 59 29.4	74 47 55.6	3,350
Lewbeach, 1.8 miles southwest of, road north across small wooden bridge to sawmill.....	41 59 18.1	74 48 35.4	3,212
Lewbeach, 2.4 miles southwest of, road forks.....	41 59 05.7	74 49 12.4	3,058
Lewbeach, 2.8 miles southwest of, at road forks, south side of grass triangle.....	41 58 47.5	74 49 32.3	2,385
Lewbeach, 3.3 miles southwest of, about 300 feet south of Beaver Kill post office, in grass triangle at fork in roads, center of large flagstone.....	41 58 48.6	74 50 05.3	2,492
Beaver Kill post office, 0.5 mile southwest of, road forks.....	41 58 30.0	74 50 22.9	2,304
Beaver Kill post office, 0.9 mile southwest of, near yellow cottage and young pine grove, fork in roads.....	41 58 41.6	74 50 48.4	2,254
Beaver Kill post office, 2 miles southwest of, 200 feet north of Leonard Butler's house, center of grass triangle in road forks.....	41 58 07.0	74 51 45.5	5,551
Beaver Kill post office, 2.4 miles southwest of, 700 feet south of Craigie Clair schoolhouse, in northwest abutment of highway bridge over Beaver Kill; bronze tablet stamped "Prim. Trav. Sta. No. 4, 1916 N. Y. Elev. 1,415".....	41 57 49.2	74 52 00.1	2,114
Rockland, 1.5 miles northeast of, 60 feet west of intersection of Beaver Kill and Spring Brook roads, center of bridge over Spring Brook.....	41 58 04.7	74 53 55.5	8,861
Rockland, 1 mile north of, in top and at east end of middle pier of highway bridge over Beaver Kill; bronze tablet stamped "Prim. Trav. Sta. No. 5, 1916 N. Y. Elev. 1,332".....	41 57 55.1	74 54 29.1	2,711
Rockland, 1.9 miles northwest of, north side of road, about opposite Mr. Campbell's barn and 12 feet from barway to pasture; nail in stake.....	41 58 37.4	74 54 46.4	4,477
Rockland, 2.7 miles northwest of, Branch District School 14, front door of.....	41 59 05.8	74 55 25.3	4,111
Rockland, 3.7 miles northwest of, center of grass triangle at fork in roads north and west, near three mail boxes, marked "Cable," "Lindsey," "Cole".....	41 59 49.5	74 56 01.2	5,178
Rockland, 4.3 miles northwest of, center of bridge over Russell Brook.....	41 59 37.0	74 56 38.3	3,072
Rockland, 5.2 miles northwest of, 160 feet northwest to barn, 60 feet south to lone ash tree, small house northeast of road, center of road opposite gateway.....	41 59 58.6	74 57 32.7	4,647
Gregorytown, 4.5 miles southeast of, fork in roads near John Elfreys house, 100 feet north to southeast corner of house, 60 feet northwest to corner of shed, 30 feet southwest to apple tree.....	41 59 46.0	74 58 37.8	5,082
Gregorytown, 4.2 miles southeast of, on Staedel farm, 55 feet from northeast corner of house, 50 feet east of barn door, 25 feet north of corner of shed, 16 feet west of road, in ledge; bronze tablet stamped "Prim. Trav. Sta. No. 6, 1916 N. Y.".....	41 59 54.8	74 58 59.6	1,865

Magnetic declination for north border of quadrangle, 10° 14' W.

MARGARETVILLE QUADRANGLE.

Near northwest corner of quadrangle. (By F. J. McMaugh in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
Andes triangulation station, a prominent timbered mountain locally known as Pisgah Mountain, in the town of Andes, and owned by Elliott Graham; most of the timber was cut down in 1900, one birch tree being left for signal. Station mark: A bronze triangulation tablet cemented in a large flat boulder on highest point of mountain. Reference mark: The birch signal tree; true azimuth, mark to tree, 110° 04'; distance, 57 feet.....	42 13 16.81	74 44 11.38	Feet.....
Andes triangulation station, 0.5 mile northwest of, 110 feet northeast of William E. Oliver's house, 60 feet northwest of tree at corner of fence, 25 feet east of corner of milk house, 12 feet south of corner of barn; nail in ground.....	42 13 34.81	74 44 53.79	.....

Along highways near west border of quadrangle.

Arena, 0.75 mile northwest of, south end of steel highway bridge over the "East Branch".....	42 07 00.6	74 44 42.3	.....
Arena, 0.4 mile west of railroad station, west end of steel bridge No. 9.....	42 06 49.0	74 44 45.1	1,195

Magnetic declination for west border of quadrangle, 10° 36' W.

WALTON QUADRANGLE.

North along highways and railroad near east border of quadrangle.

Gregorytown, 3 miles southeast of, about 100 feet northeast of, fork in roads, 28 feet southeast of maple tree, 50 feet southwest of iron water tank, in center of grass triangle, large rock.....	42 00 14.8	75 00 05.8	.....
Gregorytown, 2.4 miles southeast of, fork in roads north and northwest, at edge of grass.....	42 00 54.1	75 00 07.6	3,975
Gregorytown, 1.6 miles southeast of, 150 feet north of barway near large unpainted barn, 120 feet south of barway at drive leading to small dilapidated house, fork in roads.....	42 01 08.0	75 00 58.3	4,082
Gregorytown, 0.9 mile southeast of, 84 feet south of schoolhouse No. 4, 50 feet northwest of wooden bridge, fork in roads.....	42 01 38.9	75 01 19.3	3,500
Gregorytown, 500 feet northeast of railroad crossing, at north side of grass triangle, 8 feet southeast of intersection of road southwest, T road southeast.....	42 01 52.8	75 02 11.6	4,190
Gregorytown, road crossing Delaware & Northern R. R. at flag station.....	42 01 49.8	75 02 16.6	480
Gregorytown, 1.3 miles north of, 470 feet northeast of railroad crossing at Corbett, in southwest abutment of bridge 27; bronze tablet stamped "Prim. Trav. Sta. No. 7, 1916 N. Y. Elev. 1105".....	42 02 43.1	75 01 20.6	6,856
Colchester station, west rail of Delaware & Northern R. R.....	42 03 32.0	75 00 29.8	6,260
Colchester station, 0.7 mile north of, farm road crossing railroad.....	42 04 04.3	75 00 05.0	3,766
Hawley station, 2.3 miles southeast of, N. 76° 30' W., distant 15 feet to hinge on gatepost at road leading downhill, right-angle bend in road.....	42 09 09.2	75 00 28.1	.....
Hawley station, 1.5 miles southeast of, 40 feet west of road fork, stone-arch bridge over stream.....	42 09 50.5	75 00 19.0	4,239
Hawley station, 0.6 mile southeast of, iron signpost at T road southeast; sign reads "Downsville 8 miles, Walton 7 miles".....	42 10 13.2	75 01 11.6	4,582
Hawley station, 0.2 mile south of, south end of covered highway bridge.....	42 10 31.4	75 01 02.9	1,950
Hawley station, road crossing New York, Ontario & Western Ry.....	42 10 42.8	75 01 01.8	1,162

Magnetic declination for east border of quadrangle, 10° 45' W.

Childwold, Cranberry Lake, Long Lake, Nicholville, Santa Clara, St. Regis, Stark, and Tupper Lake quadrangles.

HAMILTON, HERKIMER, AND ST. LAWRENCE COUNTIES.

The following geographic positions are based on points previously established by primary traverse and triangulation in adjoining quadrangles.

Many stations on the shores of Cranberry Lake were determined by secondary triangulation based on primary traverse points near the north and south ends of the lake. Angles were repeated 10 times with the transit.

The work was done in 1916 by C. B. Kendall.

CHILDWOLD QUADRANGLE.

North along railroad and highways in southwest part of quadrangle. (By C. B. Kendall in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Shurtleff station, 150 feet west of, at old road crossing.....	44 15 07.5	74 44 43.6	.....
Shurtleff, center of dam across Grasse River.....	44 15 18.8	74 44 42.6	1,141
Shurtleff, 0.2 mile north of station, 300 feet southwest of Mr. Shurtleff's residence, 583 feet northwest of center of dam across Grasse River, 40 feet south of wagon road, in rock ledge; bronze tablet stamped "Prim. Trav. Sta. No. 6, 1916 N. Y." Elevation, 1,556 feet.....	44 15 23.4	74 44 47.3	583
Concrete culvert painted "1621 P. T.".....	44 16 27.9	74 44 28.2	6,678
Concrete culvert at old log road crossing painted "1578 P. T.".....	44 16 32.2	74 44 19.7	751
Culvert over small stream, painted "1524".....	44 17 05.0	74 44 01.4	3,580
Culvert over small stream.....	44 17 26.7	74 43 41.1	2,650
Sevey's, 600 feet southwest of Sevey's Hotel, 50 feet southwest of junction of the Potsdam-Tupper Lake road with road to Cranberry Lake, in south end of concrete headwall to small culvert; bronze tablet stamped "Prim. Trav. Sta. No. 8, 1916 N. Y." Elevation, 1,532 feet.....	44 17 47.0	74 43 03.2	3,442
Sevey's, 1 mile southeast of, at north edge of road, on large boulder; painted square "t. b. m. 1,582.8".....	44 17 27.2	74 42 11.0	4,294
Jacks Pond outlet bridge, 2,200 feet northwest of, on north edge of road, 20 feet west of T road north; stone on which is painted a square and t. b. m. 1,617.6.....	44 17 20.8	74 40 54.5	5,602
Jacks Pond outlet, center of bridge over.....	44 17 06.8	74 40 31.4	2,198
Moosehead Mountain, Colvin station No. 299, a standard plug stamped "N. Y. State Survey, V. Colvin, Supt., No. 299".....	44 17 59.54	74 41 09.78	6,027
Moosehead triangulation station, situated on cleared mountain in Jamestown Township, on south side of Raquette River, about 1.5 miles northeast of Sevey post office. A signal of N. Y. State Land survey is on same mountain, about 300 feet distant. Station mark: A bronze triangulation tablet cemented in solid rock.....	44 18 02.19	74 41 09.67	268
Moosehead Mountain, fire warden's lookout tower.....	44 18 00.37	74 44 09.94	185
Childwold post office, 150 feet southeast of, inside of wire fence on south edge of road, in large boulder; bronze tablet stamped "Prim. Trav. Sta. No. 15, 1916." Elevation, 1,628 feet, stone is painted erroneously "1,527.9".....	44 17 10.7	74 39 48.6	7,769

East along highways near south border of quadrangle.

Moosehead triangulation station, on cleared mountain in Jamestown Township, on south side of Raquette River, about 1.5 miles northeast of Sevey post office. Signal of N. Y. State Land Survey is on same mountain about 300 feet distant. Station mark: A bronze triangulation tablet cemented in solid rock.....	44 18 02.19	74 41 09.67	.....
Childwold post office, 150 feet southeast of, inside of fence on south side of road, in large boulder; bronze tablet stamped "Prim. Trav. Sta. No. 15, 1916 N. Y. Elev. 1,628 feet".....	44 17 10.6	74 39 48.6	7,875
Childwold post office, 1.2 miles southeast of, in yard of house on north side of road, pine tree.....	44 17 15.8	74 38 24.0	6,175
Second-class road fork east, on west side of road opposite, telephone pole.....	44 16 24.1	74 37 46.4	5,903
Gale Hotel and post office, 700 feet north of, at private T road west to Massawepie Lake, sign post in center of triangle.....	44 16 03.2	74 37 54.4	2,190
Gale Hotel and post office, 300 feet northwest of, 50 feet east of a laundry building, 25 feet northwest of southeast end of stone bridge and 75 feet west of public road; bronze tablet stamped "Prim. Trav. Sta. No. 16, 1916 N. Y.".....	44 15 59.3	74 37 51.8	442
Gale, 1.3 miles east of, second-class road fork southeast to Idlehour camp, 25 feet east of large dead birch tree and 20 feet north of small birch, painted P. T.....	44 16 12.0	74 36 18.2	6,933
Second-class road fork east, 25 feet south to pine tree with fire sign and 12 feet west to beech tree, painted P. T.....	44 15 43.0	74 35 49.0	3,630

CHILDWOLD QUADRANGLE—Continued.

North along New York Central R. R., Ottawa division, between Tupper Lake Junction and Kildare.

Station.	Latitude.	Longitude.	Distance between stations.
Milepost T 4—O 124, 650 feet north of, 40 feet west of center of track, in boulder; bronze tablet stamped "Prim. Trav. Sta. No. 17, 1916 N. Y."	44 15 37.0	74 30 16.2	Feet.
Milepost T 5—O 123, center of track opposite.....	44 16 20.4	74 30 33.4	4,503
Pitchfork station, switch point at north end of siding, center of track.....	44 16 47.8	74 30 21.5	2,912
Milepost T 6—O 122, center of track opposite.....	44 17 10.3	74 30 15.2	2,320
Milepost T 7—O 121, center of track opposite.....	44 17 53.8	74 30 32.8	4,594
Milepost T 8—O 120, center of track opposite.....	44 18 33.3	74 31 18.0	5,176
Old Kildare station, abandoned siding at, telephone pole, marked "N. Y. C. L.—W. U. T.—8—20"	44 18 59.4	74 31 34.3	2,892
Kildare station, 400 feet northeast of, about 15 feet south of center of New York Central R. R. track, in top of boulder; bronze tablet stamped "Prim. Trav. Sta. No. 17, 1916 N. Y."	44 19 38.8	74 31 46.6	4,090

Checked spur line northeast along New York Central R. R. from Kildare.

Milepost T 10—O 118, center of track opposite.....	44 20 06.2	74 31 25.1	3,186
Milepost T 11—O 117, center of track opposite.....	44 20 36.4	74 30 35.1	4,750

From Kildare northwest along highways via Kildare Club and Hollywood post office to Panther triangulation station.

Prim. Trav. Sta. No. 17 (described above).....	44 19 38.8	74 31 46.6	.....
Franklin-St. Lawrence county line, 1.1 miles west of Kildare station, center of Kildare road.....	44 19 58.4	74 33 01.3	5,783
Willis Brook, center of plank bridge over.....	44 20 05.3	74 33 27.5	2,031
Telephone pole with sign, "4 miles to Kildare Club," center of road opposite.....	44 20 16.1	74 34 09.5	3,246
Telephone pole with sign, "3 miles to Kildare Club," center of road opposite.....	44 20 52.9	74 34 58.0	5,134
Small stream, center of plank bridge over.....	44 21 16.6	74 36 00.0	5,098
Stream, center of plank bridge over.....	44 21 34.7	74 36 23.7	2,517
Kildare Club house, 1 mile south of, center of triangle at three corners, road west to Barclay Club house.....	44 21 46.3	74 36 45.8	1,987
Kildare Club, 55 feet northeast of the northeast corner of guide house at, 175 feet southeast of the south wing of main building, 75 feet west of the northwest corner of barn, in solid rock flush with ground; bronze tablet stamped "Prim. Trav. Sta. No. 19, 1916 N. Y."	44 22 39.5	74 36 15.3	5,829
Little Jordan Lake, outlet of, center of plank bridge over.....	44 22 56.7	74 36 43.4	2,679
Trail south to Amber Lake, center of road at, 20 feet east to birch tree with sign, "Amber Lake".....	44 23 10.9	74 36 53.2	1,611
Sawmill, about 2 miles west of Kildare Club house, smokestack of. Hole 8 by 8 by 4 feet near top of small hill, north edge of road.....	44 22 35.8	74 37 54.9	5,721
Bear Brook, center of old bridge over.....	44 22 45.1	74 38 53.2	4,346
Stone bridge, 25 feet west of road, highest point, painted "U. S. P. T.".....	44 22 43.3	74 39 13.7	1,496
Pole bridge over small stream, center of.....	44 22 28.0	74 40 40.4	6,490
Forks of trail south to Gate's Dam, birch stump on south edge of road at, painted "U. S. P. T.".....	44 22 32.7	74 40 54.9	1,155
Hollywood Inn and post office, 60 feet east of front entrance, in solid rock; bronze tablet stamped "Prim. Trav. Sta. No. 20, 1916 N. Y. Elev. 1,335'".....	44 23 02.0	74 42 16.5	6,627
Road east to camp on Raquette River, telephone pole in triangle at. Old wood road west, center of main road at, 20 feet southwest to birch tree.....	44 23 07.7	74 43 46.2	6,542
Panther triangulation station, on cleared mountain locally known as Catamount Mountain, on west side of Raquette River, about 3 miles southeast of Stark post office, and about 20 minutes walk from main highway. Station mark: A bronze triangulation tablet cemented in solid rock. Reference mark: N. Y. State Land Survey signal and station mark, distant 3.05 feet; true azimuth 308° 04' from station.....	44 23 50.4	74 44 01.5	5,058
Joe Indian Pond, outlet to, center of road over.....	44 24 36.2	74 44 39.5	4,886
Blake post office, 1,000 feet north of, T road east to Joe Indian Pond, 12 feet northwest to telephone pole.....	44 25 33.86	74 45 25.09	6,685
St. Regis River, 500 feet east of, center of Brooklyn Cooperage Co.'s railroad, opposite small boulder, on south edge of road bed.....	44 28 50.6	74 44 37.6	.....
	44 29 21.0	74 44 40.4	2,478
	44 29 53.9	74 39 36.6	.....

Magnetic declination near south border of quadrangle, 16° 41' W.; near west border of quadrangle, 14° 57' W.; near northwest corner of quadrangle, 14° 58' W.; near east border of quadrangle, 14° 23' W.

CRANBERRY LAKE QUADRANGLE.

From Benson Mines along Cranberry Lake R. R. and highways southeast to Wanakena, thence south along old roadbed to Webb triangulation station. (By C. B. Kendall in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Benson Mines, 0.2 mile east of residence section, at public road crossing the Wanakena Branch R. R.	44 10 09.3	74 59 33.8	.....
Center of trestle over small stream flowing northwest.	44 09 14.7	74 58 34.4	7,025
Center of trestle over stream flowing north.	44 08 59.1	74 57 17.5	5,829
Wanakena, 1.2 miles northwest of, at old camp, center of trestle over stream flowing north.	44 08 31.4	74 55 48.5	7,074
Wanakena, 0.5 mile northwest of, center of track at public-road crossing.	44 08 16.5	74 55 27.1	2,173
Wanakena, about 50 feet northwest of station and 100 feet east of (W) company store, in front yard of residence of J. O. Hornele (Wanakena post-office building), in granite boulder; bronze tablet stamped "Prim. Trav. Sta. No. 1, 1916, 1495".	44 08 01.0	74 55 17.6	1,728
Junction with trail over mountain to High Falls, center of old railroad bed.	44 07 10.6	74 55 28.7	5,165
At east end of small rock cut, center of old railroad bed; opposite rock painted "1633".	44 06 42.7	74 56 01.1	3,692
Albany road, center of old railroad at crossing of, tree painted 1617.	44 06 39.2	74 56 49.2	3,522
Albany road crossing, about 1 mile southwest of, at rock on east edge of roadway painted "U. S. P. T."; center of old railroad bed.	44 05 53.4	74 57 47.2	6,285
High Rock, at center of pole bridge over small stream.	44 05 36.1	74 57 26.3	2,325
High Rock, about 1 mile southwest of, in very small cut, stone on east edge of old railroad bed.	44 04 58.3	74 57 25.8	3,835
At old siding, tie painted "1590 P. T."; center of old railroad bed. Small cut just southwest of old camp site, on north side of railroad, stone on south edge painted "1504 P. T."; center of old railroad bed.	44 04 25.8	74 56 55.9	3,950
Pole bridge over Glasly Creek, at junction of old railroad bed and wagon road to High Falls, about 500 feet south of old camp site; bridge painted "1599.3 P. T.".	44 04 32.5	74 56 03.5	3,889
High Falls, 10 feet west of the northwest corner of kitchen and dining room of Postern Lodge, 35 feet northeast of northeast corner of main building, in top of large granite boulder; bronze tablet stamped "Prim. Trav. Sta. No. 9, 1916." Elevation, 1,618 feet.	44 04 42.6	74 55 06.6	4,278
Herkimer-St. Lawrence county line post, north side bears legend "St. Lawrence County 1903 Macombs Purchase G. T. tract 3 Twp—lot—miles T. 45." South side bears legend "Herkimer County 1903 T. and C. Purchase 7.45 miles north of 38".	44 04 09.9	74 54 37.2	3,957
West edge of trail at small stream, t. b. m. and washer in roof of dead pine snag.	44 03 52.4	74 54 52.4	2,091
Gull Lake trail crossing of Robinson River, on stone in center of, painted "P. T. U. S.".	44 03 28.6	74 54 27.5	3,030
Gull Pond, about 500 feet north of north end of, 580 feet along trail from crossing of the outlet on east side of High Falls-Gull Lake trail, in granite boulder; bronze tablet stamped "Prim. Trav. Sta. No. 10, 1916 N. Y." Elevation, 1,882 feet.	44 03 05.9	74 54 13.1	2,532
Crocker Lake outlet, center of old pole bridge at old Albany road crossing of, log painted "P. T.".	44 02 49.4	74 53 37.4	3,099
Crocker Lake, 800 feet north of, south edge of trail, in root of birch tree; copper nail and washer, tree painted "B. M. 1994 P. T.".	44 02 36.5	74 53 30.6	1,399
Top of hill, east edge of road, large pine tree painted "2087 P. T.".	44 02 18.1	74 53 12.9	2,275
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 rock; bronze tablet stamped "Prim. Trav. Sta. No. 11, 1916 N. Y." Elevation, 2,038 feet.	44 02 09.8	74 52 52.9	1,689
Gull Lake, extremesoutheast end of, on east edge of old tote road; small jack pine painted "U. S. P. T.".	44 01 18.6	74 53 00.4	5,226
Owens Lake, 50 feet south of trail to, 20 feet west of bank of lake on western shore, center of old log road, a log 10 feet north is painted "U. S. P. T.".	44 00 46.7	74 53 24.0	3,654
Owens Lake, about 200 feet east of east edge of, in old log road; a clump of three pine trees.	44 00 54.8	74 53 34.8	1,134
Rand Lake, 500 feet south of, near trail, 40 feet north of small stream; pine tree painted "U. S. P. T.".	44 00 48.5	74 54 08.4	2,532
Webb triangulation station, about 0.2 mile north of, at north edge of small grassy pond; pine tree painted "U. S. P. T.".	44 00 27.6	74 54 22.9	2,365
	44 00 02.4	74 54 13.2	2,660

Magnetic declination for southwest part of quadrangle, 14° 40' W. (Range from 12° 4' to 16° 50'.)

CRANBERRY LAKE QUADRANGLE—Continued.

From Gull Lake east along highways near south border of quadrangle to Smiths Ledge triangulation station.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
At foot of long hill, center of pole bridge over stream, bridge painted "U. S. P. T."	44 01 03.5	74 52 11.3	.....
Old gate to pole fence, at south end of small pond north of road, center of road	44 00 28.5	74 51 35.1	4,424
Junction of Gull Lake-Nehasane road with road southwest to Nigger Lake, 10 feet east of t. b. m., nail and washer in beech snag.	44 00 09.8	74 51 10.0	2,642
Hamilton-Herkimer county line post, on north edge of road, 1.4 miles east of junction with Nigger Lake road; iron post has plate on east side marked "Hamilton County 1900" and one on west side marked "Herkimer County 1900"; also has a small disk on south side stamped "No. 141-35.64 miles"	44 00 03.6	74 50 42.6	2,109
Gull Lake, 3.4 miles east of, 300 feet west of where road strikes Partloe Lake shore, at foot of small hill and 800 feet west of point where wagon road crosses old railroad bed, 30 feet south of Gull Lake-Nehasane road, in rock; bronze bench-mark tablet stamped "Prim. Trav. Sta. No. 13, 1916 N. Y." Elevation, 1,806 feet	44 00 04.4	74 49 57.5	3,306
North edge of road, on boulder; painted square and t. b. m. 189.6 P. T.	44 00 12.1	74 48 54.5	4,673
North edge of road, on boulder; painted square, a tree near by is painted "t. b. m. 1910 P. T."	44 00 31.1	74 47 48.6	5,198
Fork at road east up mountain to Smiths Ledge; center of plank bridge	44 00 17.4	74 47 12.7	2,974
Smiths Ledge triangulation station (a 3-point secondary station), situated in Long Lake town, on the west side of Lake Lila, just above the station of Nehasane on a ledge of rock looking to the northeast and south. Station mark: A copper bolt on the highest part of rock ledge at northeast end of ledge and 4 feet south of the open side of an observation house	44 00 24.33	74 46 39.07	2,561

Magnetic declination for line, 14° 09' W.

From Smiths Ledge triangulation station northeast along railroad to Robinwood. (A checked spur line.)

Nehasane, 200 feet west of station, northwest of track, in face of rock ledge; bronze tablet stamped "Prim. Trav. Sta. No. 14, 1916" N. Y. Elevation, 1,789 feet Albany	44 00 15.4	74 46 38.2	.....
Opposite milepost H 89; center of track	44 01 08.9	74 46 06.4	5,889
Lake Lila; concrete culvert over inlet; iron plate painted "70 MA"	44 01 24.3	74 46 02.0	1,597
Opposite milepost H 90; center of track	44 01 54.8	74 45 35.9	3,629
Robinwood station, east end of siding; point of switch	44 02 33.0	74 44 58.5	4,735

From Newton Falls northeast along highway to Cooks Corners, thence southeast to Cranberry Lake.

Newton Falls, 150 feet north of Newton Falls Hotel, 4 corners, 20 feet west of a telegraph pole	44 12 43.7	74 59 23.2	.....
East Branch of Oswegatchie River, center of iron bridge over	44 13 11.4	74 57 54.0	7,073
Milepost 2, center of road opposite	44 13 09.5	74 57 03.1	3,711
Crane Pond outlet, center of road over	44 13 29.3	74 56 41.0	2,570
Newton Falls 3-mile post, telegraph pole on edge of road, to which sign is nailed	44 13 48.7	74 56 23.7	2,336
Moose Head Pond outlet, center of iron bridge over	44 14 08.7	74 56 07.3	2,345
Plank bridge over small stream, center	44 14 21.8	74 54 49.8	5,797
Cooks Corners, about 4 miles northwest of Cranberry Lake post office, in southeast corner of concrete porch to Cooks Hotel; bronze tablet stamped "Prim. Trav. Sta. No. 2, 1916 N. Y. 1481"	44 14 29.5	74 53 06.6	7,547
Watering trough on edge of road	44 13 54.0	74 52 42.8	3,990
At old cabin near top of hill, 15 feet south of road; telegraph pole blazed and marked with blue crayon "U. S. P. T."	44 13 31.6	74 52 34.4	2,348
At bend in road southeast, south edge of road; telegraph pole blazed and marked "U. S. P. T." with blue crayon	44 13 12.4	74 51 37.2	4,596
Cranberry Lake, 300 feet west of dam at foot of; T road south across river	44 13 14.2	74 50 59.2	2,770
Cranberry Lake, west base, in old cement engine foundation of the Bissell Bros. sawmill, now abandoned and known as the Bissell mile point, about 550 feet southwest of Windsor Hotel. It is 10 feet from lake bank and 89 feet east of old burner site. The land is now owned by M. J. Brainerd, and tablet is 74 feet northwest of the northwest corner of his boathouse. Tablet stamped "Prim. Trav. Sta. No. 3, 1916 New York 1492"	44 13 22.32	74 50 27.15	2,476
Cranberry Lake east base, in round block of concrete, 10 feet west of gate, about 70 feet south of center of front porch of the White Birches, on north shore of lake and at the bend of Cranberry Lake village. Station is 15 feet back of lake bank and 30 feet east of walk to boat landing. Tablet stamped "Prim. Trav. Sta. No. 4 1916 New York 1502"	44 13 10.30	74 50 01.33	2,240

CRANBERRY LAKE QUADRANGLE—Continued.

Stations on Cranberry Lake determined by secondary triangulation based upon primary traverse positions.

Station.	Latitude.	Longitude.	Distance between stations.
Columbian: Flag pole just north of the shore end of boat landing at the new Columbian Hotel.....	° ' " 44 13 06.76	° ' " 74 50 30.02	Feet. α1,590
Howland Point: A flag on leaning birch tree on point just east of Fred Howland's residence.....	44 12 47.38	74 50 24.08	α3,545
Station 1, Green Point: On large rock about 300 feet off the west shore at Green Point and 400 feet northeast of Mr. Green's cottage. Signal: Pole quadripod with flag. Station mark: Hole U. S. drilled in solid rock and "U. S. 1" chiseled thus: ○ ₁	44 12 10.51	74 50 17.64	.....
Station 2, Idlewild: Station is on concrete retaining wall about 80 feet southeast of the southeast corner of Mr. Wilder's cottage Idlewild. It is about 8 feet south of a small birch tree which grows on the point at edge of wall. Signal: Pole quadripod with flag. Station mark: Hole drilled in concrete with "U. S. 2" chiseled thus: ○ ₂	44 11 43.67	74 50 24.14	2,759
Station 3, Flat Rock: On the extreme point of the Flat Rock, a well known point of rock just northwest of Birch Island. Station is at the water edge. Signal: Pole quadripod having white sides and a flag. Station mark: A 1/4-inch hole 2 inches deep and around this is a 1/2-inch hole 1/4 inch deep with "U. S. 3" cut in the stone thus: ○ ₃ The holes were found already drilled and resemble those used by Colvin in setting his stations.....	44 11 09.68	74 50 33.42	3,508
Colvin station No. 294: On point of land on the west shore southeast of Birch Island, and northwest of the west end of Joe Indian Island. This is station 294 of the N. Y. State Land Survey by Colvin. Signal: Large pole quadripod with sawed lumber sides (the original signal). A pole carrying targets was set over station (instrument over center). Station mark: Brass, nickle-plated plug in solid rock bearing the inscription "N. Y. S. Land Survey by Colvin 1896 Sta. No. 294".....	44 10 27.40	74 50 39.04	4,301
Station 4: On a stone at the extreme western point of small island about 600 feet south of Colvin station No. 294 and northwest of the west end of Joe Indian Island. Signal: Pole quadripod with white sides and flag. Station mark: Drill hole in top of U. S. rock with "U. S. 4" chiseled thus: ○ ₄	44 10 17.51	74 50 38.06	1,005
Station 5: On a 5-foot by 8-foot rock at edge of water at point of west shore of lake nearly opposite the west end of Joe Indian Island. Signal: Pole quadripod with white side and flag. U. S. Station mark: Drill hole with "U. S. 5" cut in rock thus: ○ ₅	44 10 09.84	74 50 47.84	1,054
Station 6: On rock at water's edge at the southeast end of an island near west bank of lake and about 1/2 mile northeast of Howlett's cottage. Signal: Pole quadripod with white sides and flag. Station mark: Hole drilled in center of rock with "U. S. 6" U. S. chiseled thus: ○ ₆	44 09 58.40	74 51 09.81	1,976
Station 7, Howlett House: On large granite boulder 15 feet west of west shore of lake, 100 feet southeast of Ames Howlett's cottage, and 75 feet south of west end of boat landing. Signal: Pole quadripod with white sides and flag. Station mark: Drill hole U. S. with "U. S. 7" cut in top of rock thus: ○ ₇	44 09 47.84	74 51 33.50	2,032
Station 8, Howlett Island: On small rock just east of a large rock near the northeast edge of the most western of two islands in flow just south of Ames Howlett's cottage. Signal: Pole quadripod with white sides and flags. Station mark: Drill U. S. hole in top of rock with "U. S. 8" chiseled in stone thus: ○ ₈	44 09 32.91	74 51 36.33	1,526
Station 9: On large flat stone at edge of water on the west shore of lake about 1,000 feet north of the north point formed by the junction of the Oswegatchie River and Dead Creek Flow. Signal: Pole quadripod with white sides and flag. Station mark: Drill hole in top of rock with "U. S. 9" chiseled in rock U. S. thus: ○ ₉	44 09 21.22	74 51 58.51	2,004

α From West Base.

CRANBERRY LAKE QUADRANGLE—Continued.

Stations on Cranberry Lake determined by secondary triangulation based upon primary traverse positions—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Station 10: On slanting rock at water edge on the west shore of Dead Creek Flow, about 200 feet southwest of point formed by the junction of Oswegatchie River and Dead Creek Flow, about opposite an old mill site on the east shore. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole with U. S. boulder "U. S. 10" chiseled in rock thus: \odot	$44^{\circ} 08' 20.59''$	$74^{\circ} 52' 29.36''$	<i>Feet.</i> 6,538
Station 11: On small stone on west shore of Dead Creek Flow, opposite a point on east shore about half way between old sawmill site and Government works on point. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in top of stone with "U. S. 11" chiseled thus: \odot	$44^{\circ} 08' 04.47''$	$74^{\circ} 52' 41.68''$	1,863
Station 12: On small boulder on west shore of Dead Creek Flow, opposite a point on the east shore about half way between old sawmill site and Cat Mountain boat landing, about 1,000 feet east of old lumber camp on west shore. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in top of boulder with "U. S. 12" chiseled in stone thus: \odot	$44^{\circ} 07' 19.67''$	$74^{\circ} 53' 19.32''$	5,303
Station 13: On bare rock ledge near the northeast end of first hill north of Cat Mountain boat landing, on east shore of Dead Creek Flow and about $\frac{1}{4}$ mile from water edge. A large boulder is south 20 feet from station, another southwest 25 feet, and a third east 15 feet. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in stone ledge with "U. S. 13" cut in rock thus: \odot	$44^{\circ} 07' 06.79''$	$74^{\circ} 53' 02.30''$	1,800
Cat Mountain flag.....	$44^{\circ} 06' 02.32''$	$74^{\circ} 51' 56.05''$	8,123
Station 14: On the second rock ledge above the east shore of Dead Creek Flow, southeast of old Government works, about 2,000 feet southwest of old sawmill site. Station is not on the highest point of hill. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole on highest part of bluff and "U. S. 14" chiseled in stone thus: \odot	$44^{\circ} 07' 41.33''$	$74^{\circ} 52' 18.51''$	.....
Station 15: On small rock on point of the east shore of lake, opposite the junction of the Oswegatchie River and Dead Creek Flow. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole on highest point of rock with "U. S. 15" chiseled in stone thus: \odot	$44^{\circ} 09' 08.18''$	$74^{\circ} 51' 41.00''$	9,210
Station 16: On point of east shore of lake where lake bends south, opposite Ames Howlett's cottage on west shore. Station is on solid rock 30 feet south of north bank and 100 feet northeast of the extreme point. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in solid rock with "U. S. 16" chiseled in top thus: \odot	$44^{\circ} 09' 43.07''$	$74^{\circ} 51' 12.77''$	.....
Station 17: On north side near west end of small island, just west of where the flow or channel south of Joe Indian Island joins the river channel. Island is thickly covered with small pines. A cranberry bog is just northwest of the station. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in the most western of three rocks near water edge. "U. S. 17" is chiseled on rock thus: \odot	$44^{\circ} 09' 56.29''$	$74^{\circ} 50' 47.55''$	2,274
Station 18, Pine Island: On large rock at extreme east end of Pine Island, which lies about south from Gull Rock and Birch Island and is just north of a point on Joe Indian Island about one-third of its length from west to east. Signal: Pole quadrupod with white sides and flag. Station mark: Hole drilled in top of rock with "U. S. 18" chiseled in rock thus: \odot	$44^{\circ} 10' 19.47''$	$74^{\circ} 49' 57.94''$	4,311
Station 19, Gull Rock: On Gull Rock, a very prominent rock just south of Birch Island. Top of rock is a sharp point about 10 feet above water. Station is on the southwest edge of rock. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in rock with "U. S. 19" chiseled thus: \odot	$44^{\circ} 10' 41.79''$	$74^{\circ} 50' 13.42''$	2,526

CRANBERRY LAKE QUADRANGLE—Continued.

Stations on Cranberry Lake determined by secondary triangulation based upon primary traverse positions—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Station 20, Birch Island: On solid stone near north end of Birch Island, about 100 feet south of extreme north end of the island and 20 feet southeast of a picnic table. Signal: Pole quadrupod with flag. Station mark: Drill hole in rock with "U. S. 20" chiseled U. S. thus: \bigcirc	44 11 01.76	74 50 09.77	Feet. 2,039
Station 21, Wilcox: On large granite boulder on lake bank about 75 feet south of Mr. Wilcox's cottage and 12 feet south of a large birch tree and about 50 feet east of board walk to landing stage. Signal: Pole quadrupod with white sides and white flag. Station mark: Drill hole in top of boulder with "U. S. 21" chiseled U. S. thus: \bigcirc	44 11 05.94	74 49 35.76	2,515
Station 22, Lone Pine: On small stone near center of Lone Pine Island. Signal: Pole quadrupod with flag. Station mark: U. S. Hole drilled in rock with "U. S. 22" cut in stone thus: \bigcirc	44 12 17.60	74 50 02.28	7,509
Abbott: Center of chimney of Mr. Abbott's boat house, on east shore of lake, at foot of Bear Mountain	44 12 41.12	74 49 54.19	4,814
Station 23, Union Point: On large boulder on west side of Union Point, which is the first point west of Balderson's Hotel. Station is about 40 feet northwest of extreme south end of point. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in top of boulder with "U. S. 23" chiseled on U. S. rock thus: \bigcirc	44 10 57.76	74 49 26.71	.....
Colvin station No. 295: A station of the N. Y. State Land Survey on the north side of Eagle Island, which is about 1,500 feet southeast of Balderson's Hotel, on north shore of lake. Station is about 15 feet south of water edge at north point of island. Signal: Large pole quadrupod with boards on sides. Station mark: Standard State Survey nickel plug in solid rock, plug stamped "N. Y. S. Land Survey, V. Colvin, Supt. 1896, No. 295"	44 10 50.61	74 48 46.98	2,985
Station 24, Brandy Brook: On rock ledge on north bank of lake where Brandy Brook flow joins the lake proper. Ledge forms the first point east of Balderson's Hotel and is nearly due east of Eagle Island or Colvin station 295. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in top of ledge U. S. with "U. S. 24" chiseled thus: \bigcirc	44 11 00.71	74 48 16.06	2,475
Station 25, Sears Island: On large boulder on the west side of Sears Island, which is on the north shore of the junction of east inlet or bay with the lake proper and is about three-fourths of a mile nearly north of the Forestry School camp. Signal: Pole quadrupod with white sides and flag. Station mark: Drill hole in top of boulder with "U. S. 25" cut in rock thus: \bigcirc	44 10 15.89	74 47 48.15	4,974
Forestry Camp: On large boulder at water edge, 100 feet south of boat landing at Syracuse University Summer Forestry Camp, which is on the east shore of lake near mouth of Sucker Brook. Signal: Pole quadrupod with white sides and flag. Station mark: U. S. G. S. standard b. m. tablet in top of boulder stamped "Prim. Trav. Sta. No. 7, 1916" New York	44 09 24.20	74 48 01.86	5,329

From triangulation station 12 at south end of Cranberry Lake northwest along old railroad bed to P. T. S. No. 1 at Wanarena.

Old camp site, 300 feet west of, at junction of two branches; center	44 07 31.4	74 53 55.3	.....
Old camp site; culvert over small stream	44 07 42.6	74 54 14.9	1,830
Branch road east, opposite post painted 1528; center of old road bed	44 07 59.3	74 54 44.4	2,733

CRANBERRY LAKE QUADRANGLE—Continued.

From Cranberry Lake along Grasse River R. R. near north boundary.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Cranberry Lake, about 1 mile north of, at east end of Y; point of switch.....	44 13 51.3	74 49 34.3	.....
Lines opposite station, 570 feet north of old road crossing, center of track.....	44 14 38.0	74 48 30.8	6,612

On islands in lake.

Joe Indian Island, at most northern point and about one-third of its length from east toward west end; flag in pine tree.....	44 10 13.7	74 49 38.3	3,853 (To Gull Rock.)
Buck Island.....	44 09 29.5	74 48 39.4	2,791 (To Forestry Camp.)

LONG LAKE QUADRANGLE.

Along New York Central R. R., Ottawa Division, in northwest part of quadrangle. (By C. B. Kendall in 1916.)

New York Central R. R., opposite milepost T 3-0 125, center of track.....	44 14 51.3	74 29 33.5	.....
Public road crossing New York Central R. R., 0.6 mile northwest of Tupper Lake Junction.....	44 14 45.4	74 29 25.1	859
Tupper Lake Junction, railroad crossing at.....	44 14 29.8	74 28 44.7	3,340

NICHOLVILLE QUADRANGLE.

East along highways near south border of quadrangle. (By C. B. Kendall in 1916.)

Azure triangulation station, on a cleared mountain locally known as Blue Mountain, about 4 miles southwest from Spring Cove station on the New York Central R. R. A good trail from the Blue Mountain House to the summit. Station mark: A bronze tablet cemented in solid rock marked "U. S. Geological Survey, New York".....	44 32 28.19	74 30 04.51	.....
Schoolhouse No. 10, 120 feet south of front door of, 80 feet north of front door of house of Peter Wilmet, 30 feet east of center of public road from Stark to Wish, in outcrop of rock ledge; bronze tablet stamped "Prim. Trav. Sta. No. 21, 1916, N. Y.".....	44 30 14.2	74 44 14.1	.....
Old bridge over small stream, center of.....	44 30 40.2	74 43 05.7	5,620
Junction of woodsroad west to school No. 10 with automobile road to Wilsour Camp, on east edge of automobile road, maple tree.....	44 30 46.3	74 42 25.8	2,963
Egg Pond, north end of, on north end of road, telephone pole.....	44 30 46.8	74 41 40.0	3,320
Five Mile Camp or Balsam Lodge, on St. Regis River, on the 5-mile level, flag pole in front of.....	44 30 16.9	74 40 37.2	5,472
St. Regis River, at old log-road crossing, center of.....	44 30 01.8	74 40 07.2	2,661

East along old road bed of Brooklyn Cooperage Co.'s railroad near south border of quadrangle.

Long Pond outlet, or Alder Brook, center of old trestle over; stringer marked with blue kiel "P. T.".....	44 30 11.4	74 38 47.4	.....
Old trestle, over small stream, just southeast of old siding, center of.....	44 30 30.0	74 37 13.4	7,073
Old trestle over small stream, center of.....	44 30 31.7	74 36 47.2	1,913

East along highways near south border of quadrangle.

Franklin-St. Lawrence county line, 12 feet north of center of road bed at, in small boulder; bronze tablet stamped "Prim. Trav. Sta. No. 22, 1916 N. Y.".....	44 30 14.3	74 34 48.2	8,807
Mud Pond (?), center of old trestle over outlet to.....	44 30 18.2	74 33 56.6	3,769
Old house, on south edge of road bed, northeast corner of.....	44 30 16.3	74 32 47.0	5,049
Alder Brook, center of trestle over.....	44 30 11.2	74 31 27.5	5,794

SANTA CLARA QUADRANGLE.

East along highways in southwest corner of quadrangle. (By C. B. Kendall in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Number 4 Camp, public-road crossing of old railroad road bed at Blue Mountain House, 1 mile south of, road forks, 15 feet north to tree with sign, "St. Regis Falls 12 miles; Blue Mountain House, 1 mile".....	44 31 15.6	74 29 51.7	.....
Log schoolhouse, 100 feet southwest of, at trail north to Azure triangulation station, center of main road.....	44 31 30.8	74 29 36.8	1,885
Blue Mountain House, cement walk in front of, center of public road.....	44 32 07.6	74 29 14.8	4,057
	44 32 17.5	74 29 04.9	1,233

ST. REGIS QUADRANGLE.

Point on checked spur line near west edge of quadrangle. (By C. B. Kendall in 1916.)

Milepost T 12-O 116 on New York Central R. R., 50 feet northwest of, 25 feet north of center of track, in boulder; bronze tablet stamped "Prim. Trav. Sta. No. 18, 1916 N. Y.".....	44 21 16.1	74 29 55.4
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STARK QUADRANGLE.

East along Grasse River R. R. and highways near south border of quadrangle. (By C. B. Kendall in 1916.)

Trestle over creek, painted "1403 W-11"; 700 feet north along railroad to center of another trestle over stream painted "1400 W-5".	44 15 06.7	74 48 34.6	.....
Carter station, 0.7 mile west of, 20 feet north of Grasse River R. R. track in large boulder; bronze tablet stamped "Prim. Trav. Sta. No. 5, 1916 N. Y. Elev. 1,417 feet".....	44 15 14.6	74 48 16.3	1,556
Carter station, 40 feet south of, center of track at road north.....	44 15 11.1	74 47 26.4	3,652
Brandy Brook spur station, point of frog to spur.....	44 14 57.2	74 46 25.9	4,625
Grasse River, center of trestle over.....	44 15 03.0	74 45 57.1	2,178

North along highways near north part of east edge of quadrangle.

Panther triangulation station (described under Childwold quadrangle), T road east to Raquette River, center of main road at.....	44 25 15.3	74 45 04.2	2,412
Second-class T road east to Raquette River, center of main road at Raquette House, 25 feet west of front entrance to, forked maple tree.....	44 26 02.0	74 45 00.3	4,738
	44 26 59.9	74 46 02.7	7,405
Stark, at forks of public T road northeast to Joe Indian Lake, 35 feet east to signboard "Pinehurst, Joe Indian Lake, 4.5 miles".....	44 27 00.9	74 46 55.8	3,850
Plank bridge over small stream, center of.....	44 28 06.1	74 45 54.1	7,978
Blake, Raquette River at, center of iron bridge over.....	44 28 42.9	74 45 43.6	3,800

Magnetic declination for north part of quadrangle, 14° 32' W.

TUPPER LAKE QUADRANGLE.

East along highways in northeast corner of quadrangle. (By C. B. Kendall in 1916.)

Concrete bridge over creek, center of.....	44 14 31.6	74 36 01.3	.....
Piercefield, 0.75 mile north of, red barn on east edge of road, center of road opposite.....	44 14 00.2	74 34 40.6	6,682
Piercefield, 300 feet south of store at, center of east-west road, at public T road north.....	44 13 53.3	74 33 54.9	3,396
Piercefield, center of iron bridge over Raquette River at.....	44 13 54.4	74 33 36.6	1,335
Spring in edge of swamp, on south edge of public road.....	44 14 15.6	74 33 02.2	3,305
Franklin-St. Lawrence county line, about 1,000 feet west of the Beechwood Inn, center of Piercefield-Tupper Lake road.....	44 14 38.8	74 32 09.2	4,515
Small stream, culvert over.....	44 14 54.0	74 30 06.1	9,094

Magnetic declination for northeast corner of quadrangle, 16° 33' W.

Dannemora, Mooers, Plattsburg, and Rouses Point quadrangles (including Plattsburg Training Camp).**CLINTON COUNTY.**

The following geographic positions, on North American datum, were determined in 1916 by F. W. Crisp, and are based on Plattsburg, North Base station of the U. S. Coast and Geodetic Survey.

Lines were run north, south, and west from Plattsburg, but no permanent station marks were set.

PLATTSBURG QUADRANGLE.

From Plattsburg southwest along railroad and highways via Valcour to Laphams Mills. (By F. W. Crisp in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
Plattsburg North Base, on the U. S. Military Reservation about 295 meters from Macomb Street. The line passes through the reservation, in front of the artillery barracks, then through the young growth, and across an open field belonging to Bentley Sherman and terminates on the plateau about 60 meters from the brick house owned by Sherman and 7 meters from the fence on the east side of the lake or county road. The monument marking the north end is a limestone block 3.5 feet long, squared at the top to 6 inches by 6 inches, and has a bolt of lead sunk in the center and marked with cross lines.	44° 41' 32.85"	73° 26' 52.3"	Feet.
Plattsburg, 0.5 mile south of, center of intersection of Lake Shore and Peru State highways.	44 41 08.7	73 27 03.4	2,574
Plattsburg, 0.8 mile south of, along Lake Shore road, at north side of Rifle Range, at T roads north, south, and west, center of intersection.	44 40 53.6	73 26 54.0	1,679
Plattsburg, 2.5 miles south of, 0.3 mile north of Cliff Haven station, crossing of Lake Shore road and Delaware & Hudson R. R., center of intersection.	44 39 44.9	73 26 40.9	7,019
Bluff Point station, center of tracks opposite.	44 39 02.6	73 26 52.7	4,370
Bluff Point, 0.5 mile south of, second-class road crossing, center of track.	44 38 36.7	73 27 02.9	2,718
South Junction station, 430 feet north of, trestle over Salmon River, center.	44 38 02.0	73 27 16.5	3,650
South Junction station, 0.6 mile south of, east-west road crossing, center of track.	44 37 41.5	73 27 14.5	2,080
Second-class road crossing, center of track.	44 36 45.3	73 27 01.6	5,772
Valcour, 0.3 mile north of, east-west road crossing, center of main track.	44 36 29.5	73 26 54.85	1,674
Valcour, 0.6 mile west of, T roads east, west, and north, center of intersection.	44 36 25.6	73 27 35.4	2,958
Valcour, 1.3 miles west of, T roads east, west, and north, center of intersection.	44 36 21.5	73 28 19.85	3,240
Valcour, 1.4 miles west of, T roads east, west, and south, center of intersection.	44 36 20.45	73 28 29.9	730
Valcour, 1.6 miles west of, T roads east, west, and south, center of intersection.	44 36 19.3	73 28 42.4	910
Valcour, 2.7 miles west of, Delaware & Hudson R. R., public-road crossing, center of track.	44 36 17.8	73 29 47.0	4,674
Laphams Mills, 0.6 mile northeast of, on Peru road, crossroads.	44 36 16.9	73 29 57.9	795

Near Plattsburg.

Plattsburg, 1.0 mile west of, T roads east, west, and south, center of intersection.	44 42 26.7	73 28 30.5	7,239
Plattsburg, 0.5 mile west of, T road south.	44 42 31.9	73 27 27.9	4,554
Plattsburg, north side of Delaware & Hudson R. R. crossing.	44 42 32.8	73 27 19.4	625
Plattsburg, street crossing over Delaware & Hudson R. R., center of main track under.	44 42 00.0	73 27 04.1	3,501
Plattsburg, north side of Delaware & Hudson R. R. crossing.	44 42 32.8	73 27 19.4	-----
Plattsburg, opposite old Lozier Motor Works, crossroads.	44 42 34.2	73 27 06.8	921
Plattsburg, 1.0 mile northeast of, in Cumberland Head road, center of iron bridge over Dead Creek.	44 43 03.9	73 26 38.4	3,730
Plattsburg, 1.5 miles northeast of, T road north, center of intersection.	44 43 21.4	73 26 22.3	2,045
Plattsburg, 3.0 miles north of, second-class road west.	44 44 31.8	73 25 31.9	8,009

Magnetic declination at north base (Plattsburg), 14° 15' W.; at southwest corner of area, 14° W.

MOOERS QUADRANGLE.

Along highways in southeast part of quadrangle. (By F. W. Crisp in 1916.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Fect.
West Chazy station, 100 feet south of, at crossing of macadamized highway, center of main track.....	44	49	16.1	73	30	15.1	.....
West Chazy, opposite hotel, crossroads, center of intersection.....	44	49	14.4	73	30	32.2	1,240
West Chazy, 1.0 mile west of, T road, center of triangle.....	44	49	09.2	73	31	26.3	3,922
West Chazy, 1.5 miles southwest of, T road east.....	44	48	16.8	73	31	09.1	5,449
West Chazy, 2.0 miles southwest of, T road west.....	44	47	43.9	73	30	58.3	3,419
Beekmantown, 1.5 miles northwest of, T road west.....	44	47	10.5	73	30	41.6	3,592
Beekmantown, 1.0 mile northwest of, T road west.....	44	46	28.2	73	30	22.5	4,501
Beekmantown, 0.5 mile west of, T road north.....	44	46	10.8	73	30	09.9	1,981
Beekmantown, 1.5 miles southwest of, T road south.....	44	45	18.2	73	30	33.7	.....

DANNEMORA QUADRANGLE.

North along highways near east border of quadrangle. (By F. W. Crispin, 1916.)

Laphams mills, 0.8 mile northwest of, crossroads.....	44	36	12.5	73	30	50.2	.....
Laphams Mills, 2.0 miles north of, T roads north, south, and east.....	44	37	07.5	73	31	12.35	5,790
Laphams Mills, 2.4 miles north of, T roads north, south, and west.....	44	37	28.0	73	31	11.0	2,084
Schuyler Falls, 2.3 miles east of, crossroads.....	44	38	22.2	73	30	58.3	5,558
Salmon River, 1,000 feet north of, 1.1 miles south of Pulp Mill, crossroads.....	44	39	10.2	73	30	43.8	4,979
Delaware & Hudson R. R. (Chateaugay Branch) and public-road crossing, center of track.....	44	39	46.9	73	30	33.9	3,796
T roads, north, south, and east, center of intersection.....	44	39	58.0	73	30	29.9	1,144
Pulp mill (Saranac River), 300 feet south of, crossing of railway and highway.....	44	40	03.3	73	30	28.6	551
Pulp mill (Saranac River), 0.6 mile north of, T roads north, south, and east, center of triangle.....	44	40	34.3	73	30	41.7	3,277
Sunrise Hotel, 0.7 mile south of, crossroads, center of intersection.....	44	41	07.0	73	31	01.4	3,601
Sunrise Hotel, crossroads.....	44	41	42.15	73	31	02.8	3,564
Morrisonville, 1.5 miles northeast of, crossroads.....	44	42	16.9	73	31	34.75	4,206
Sunrise Hotel, 1.2 miles northwest of, road to house.....	44	42	21.0	73	30	10.4	6,110
Morrisonville, 1.5 miles northeast of, crossroads.....	44	42	16.9	73	31	34.75	.....
Sunrise Hotel, 1.2 miles north of, T road northeast.....	44	42	33.4	73	31	51.3	2,707
Sunrise Hotel, 2 miles north of, T road north.....	44	42	59.2	73	31	41.4	2,361
Sunrise Hotel, 2.5 miles north of, T road east.....	44	43	11.95	73	31	13.95	4,379
Beekmantown, 3.1 miles southwest of, fence line crossing, center of road.....	44	43	54.9	73	31	06.4	3,360
Beekmantown, 2.5 miles southwest of, crossroads.....	44	44	24.9	73	30	46.6	5,482

Magnetic declination at northwest corner of quadrangle, 15° 45' W.

ROUSES POINT QUADRANGLE.

Along highways in southwest part of quadrangle. (By F. W. Crisp in 1916.)

East Beekmantown, 2.5 miles east of, T road west.....	44	45	23.3	73	25	10.2	.....
East Beekmantown, 3 miles east of, T road to west.....	44	45	52.4	73	25	14.0	2,964
Ingraham, 2.8 miles south of, T road east.....	44	46	13.8	73	25	21.6	2,235
Ingraham, 2.4 miles south of, T road east.....	44	46	37.5	73	25	30.3	2,475
Ingraham, 1.5 miles south of, crossroads, center of intersection.....	44	47	27.0	73	25	46.6	5,155
Ingraham, 0.8 mile south of, private road west.....	44	48	03.4	73	25	56.35	3,749
Ingraham, opposite Patnode's store, T road north.....	44	48	40.6	73	26	10.1	3,895
Ingraham, 0.8 mile northwest of, T road west, center of intersection.....	44	49	08.6	73	26	40.3	3,577
West Chazy, 1.7 miles east of, crossroads.....	44	48	55.6	73	28	37.9	8,580
West Chazy, 0.7 mile east of, crossroads, center of intersection.....	44	49	18.9	73	29	42.4	5,217

Along highways in southwest part of quadrangle.

Beekmantown, crossroads at stores.....	44	46	15.6	73	29	33.1	.....
Beekmantown, 1 mile south of, T road west.....	44	45	20.6	73	29	31.2	5,577