

A 60 (USC&GS, 1934; Mitchell County, North Carolina)

Located 1.8 miles south along the Clinchfield Railroad from Altapass, Mitchell County, 3 feet south of the north end of Upper Pine Tunnel, 7 feet west of the centerline of the track, and 3 feet higher than the ground. A USC&GS standard disk stamped "A 60 1934" and set vertically in the west concrete wall.
ELEVATION: 2554.841 feet or 778.717 meters (C-2)

2848 ASH (USGS, 1900; Yancey County, North Carolina)

Located 6.0 miles south of Celio, 100 feet south of small cabin, 50 feet west of stream flowing northeast, west of road at fork. Station is an aluminum tablet stamped "2848 ASH" and set in rock ledge. Tablet is in good shape.

ELEVATION: 2848.00 feet (G-3)

B 60 (USC&GS, 1934; Mitchell County, North Carolina)

Located 0.6 mile south along the Clinchfield Railroad from Switzerland, Mitchell County, 1 1/2 feet south of the north end of Quinns Knob Tunnel, 6 feet west of the centerline of the track, and 3 feet higher than the ground. Station is a standard USC&GS disk stamped "B 60 1934" and set vertically in the west concrete wall.

ELEVATION: 2418.506 feet or 737.162 meters (C-2)

BM 2404.06 (USGS, 1926; Yancey County, North Carolina)

Located 0.2 mile west of Boonford, on east end of highway bridge over North Toe River, in north curb. Station is a chiseled cross in circle, painted "2404.06 BM 1926".

ELEVATION: 2403.34 feet (G-3)

BM 2449.8 (USGS, 1934; Mitchell County, North Carolina)

Located 0.9 mile east of Wing, about 350 feet northeast of incomplete concrete power dam over North Toe River, on north side of Clinchfield Railroad. Station is a square niche chiseled in rock boulder painted white, painted "USBM 2449.8".

ELEVATION: 2452.27 feet (G-3)

BM 2508.5 (USGS, 1934; Mitchell County, North Carolina)

Located 1.0 mile west of Spruce Pine, on north side of Clinchfield Railroad, 45 feet north of North Toe River, on rock ledge. Station is a chiseled square with cross in square, painted "BM 2509.6".

ELEVATION: 2508.05 feet (G-3)

BM 2558.1 (USGS, 1934; Mitchell County, North Carolina)

Located 0.6 mile north of Penland, on west side of road, 194 feet southeast of Y-road northeast of Appalachian School, in rock ledge. Station is a chiseled square, painted white.

ELEVATION: 2559.42 feet (G-3)

BM 2565.6 (USGS, 1934; Mitchell County, North Carolina)

Located 1.6 miles northeast of Penland, 210 feet southeast of paved highway to Bakersville, on southeast abutment of steel bridge over Bear Creek, in south wingwall. A chiseled square, painted "USBM 2565.6".

ELEVATION: 2566.95 feet (G-3)

BM 2594.2 (USGS, 1934; Yancey County, North Carolina)

Located 0.9 mile north of Double Island School, 42 feet north of centerline of road, 60 feet west of T-road northwest, on boulder. A chiseled square, painted white.

ELEVATION: 2596.77 feet (G-3)

BM 2596.0 (USGS, 1934; Mitchell County, North Carolina)

Located 1.2 miles east of, by highway, Spruce Pine, on west end of bridge over Beaver Creek, in north wingwall. A chiseled square painted white.

ELEVATION: 2596.73 feet (G-3)

BM 2602.7 (USGS, 1934; Mitchell County, North Carolina)

Located 0.2 mile south of Grassy Creek Baptist Church, on south side of road, in east end of curb of culvert over Grassy Creek. A chiseled square, painted "US 2602.7 BM".

ELEVATION: 2602.97 feet (G-3)

BM 2626.4 (USGS, 1934; Mitchell County, North Carolina)

Located 255 feet east of Estate post office, on east end of concrete bridge over Brushy Creek, on south wingwall. A chiseled square, painted "BM 2626.4".

ELEVATION: 2626.60 feet (G-3)

BM 2642.3 (USGS, 1934; Avery County, North Carolina)

Located 2.1 miles south of Ingalls, via paved highway, on northeast end of bridge over North Toe River, in north wingwall. A chiseled square, painted "BM 2642.3".

ELEVATION: 2642.86 feet (G-3)

BM 2656.1 (USGS, 1899; Mitchell County, North Carolina)

Located 100 feet south of Mica post office, 30 feet east of center of road, in solid rock. An aluminum bolt (stamping obliterated).

ELEVATION: 2656.12 feet (G-3)

BM 2676.0 (USGS, 1899; Yancey County, North Carolina)

Located 2.6 miles south of Celio Post Office, 130 feet east of State Highway 104, 450 feet south of bridge over White Oak Creek, opposite old road to east, crossing over South Toe River, in rock ledge. Station is an aluminum tablet.

ELEVATION: 2676.00 feet (G-3)

BM 2764.0 (USGS, 1934; Yancey County, North Carolina)

Located 5.0 miles south of Celio, on west side of road, at road west that crosses river, in concrete wall to drain under road. A chiseled square, painted "BM 2764.0".

ELEVATION: 2764.32 feet (G-3)

BM 2766.4 (USGS, 1934; Yancey County, North Carolina)

Located 4.5 miles south of Celio, 100 feet south of Carolina Hemlock Camp Ground, on west side of road, in concrete head wall to drain pipe under highway. A chiseled square, painted "BM 2766.4".

Report on Condition (TVA, 1960): Poor. Culvert O.K. but chiseled marks could not be made out.

ELEVATION: 2766.66 feet (G-3)

BM 2768.2 (USGS, 1934; Avery County, North Carolina)

Located 1.0 mile south of Ingalls, 17 feet east of centerline of highway where old abandoned road intersects, in concrete drop inlet headwall. A chiseled square, painted "BM 2768.2".

ELEVATION: 2768.69 feet (G-3)

BM 2780.6 (USGS, 1934; Avery County, North Carolina)

Located 0.9 mile north of Ingalls, by paved highway, 3.1 mile south of Spear by highway, in Jones Creek Bridge, about 250 feet west of North Toe River; on north end of east wingwall. Station is a chiseled square painted white.

ELEVATION: 2781.11 feet (G-3)

BM 2820.2 (USGS, 1934; Avery County, North Carolina)

Located 1.9 miles south of Spear, on west side of road, on west headwall of drainage pipe. A chiseled square painted white.

ELEVATION: 2820.69 feet (G-3)

BM 2890.1 (USGS, 1934; Mitchell County, North Carolina)

Located 2.0 miles southwest of Spruce Pine, on west side of U.S. Highway 19 East, on concrete headwall of drain under road, in south end. A chiseled square, painted "BM 2890.1".

ELEVATION: 2890.27 feet (G-3)

BM 2946.0 (USGS, 1934; Mitchell County, North Carolina)

Located 0.7 mile east of Sevenmile Ridge School, 42 feet west of old barn, 70 feet south of Carolina Mineral Co. Railroad, south of south fork of Crabtree Creek, on boulder, in west end. A chiseled circle, painted "BM 2946.0".

ELEVATION: 2946.23 feet (G-3)

C 60 (USC&GS, 1934; Mitchell County, North Carolina)

Located 2.8 miles toward Ashford along the Clinchfield Railroad from Switzerland, Mitchell County, 1 1/2 feet north of the south end of Speedy Tunnel, 6 feet west of the centerline of the track, and 3 feet higher than the ground. A USC&GS standard disk stamped "C 60 1934" and set vertically in the west concrete wall.

ELEVATION: 2290.770 feet or 698.228 meters (C-2)

CELO (USFS, ???; Yancy County, North Carolina)

Located on highest point of Celio Mountain in government meander line, set in Forest Service standard concrete post 128, 6 inches in ground in mount of stones. NOTE: Forest Service post was loose and was removed and standard survey bronze tablet was set in rock flush with ground in exact location.

GEODETIC POSITION: Lat. = 35°51'08.473"; Long. = 82°14'55.497" (G-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Mitchell	8°41'37.1"	188°41'02.5"	3.992 848	6.1
Pig Pen Bluff	180 06 51.4	0 06 52.2	4.076 751	7.4
Yellow	288 40 23.1	48 47 03.3	4.357 008	14.1

GRID POSITION (North Carolina): X = 1,037,412.5; Y = 780,884.5 (G-3)

GRID POSITION (Tennessee): X = 3,111,427.5; Y = 552,880.3 (G-3)

ELEVATION: 6327 feet (T-5)

D 60 (USC&GS, 1934; McDowell County, North Carolina)

Located 7.6 miles west along the Clinchfield Railroad from Ashford, 10 rails north of a tool and car house, at a concrete culvert, in the top of the east face, and 7 feet east of the centerline of the track. Station is a standard disk stamped "D 60 1934".

NOTE: Mark has been covered by 4 feet of earth and gravel during construction of a new road.

ELEVATION: 2198.417 feet or 670.079 meters (C-2)

E 1 (USGS, 1934; Avery County, North Carolina)

Located in triangular plot owned by Mr. White, Ingalls, 180 feet east of intersection of highways U.S. 19E, and State Highway 194, 140 feet north of west end of highway bridge on U.S. 19E, over Threemile Creek, 55 feet south of highway 194, 25 feet west of Threemile Creek.

Reference Mark is 160 feet south of tablet, on east end of highway bridge on U.S. 19E, over Threemile Creek, in north wingwall; a chiseled square, painted "RM 2764.9" and 10.15 feet lower than tablet.

ELEVATION: 2775.41 feet (G-3)

E 3 (USGS, 1934; Mitchell County, North Carolina)

Located at Spruce Pine, Mitchell County, about 2 1/2 rails south of the Clinchfield Railroad Station, at the south edge of the Railroad park, about 25 feet east of the centerline of the track, and 2 feet north of the center post of the park fence. A standard disk set in the top of a precast concrete post stamped "E 3 1934".

Reference Mark is on concrete pump stand of Shell Oil Company filling station on Lower Street (in Spruce Pine); chiseled square with cross in center and 2.31 feet higher than tablet.

ELEVATION: 2517.390 feet or 767.302 meters (C-2)

E 4 (USGS, 1934; Mitchell County, North Carolina)

Located at Penland, Mitchell County, on south side of Clinchfield Railroad, 10 feet south of the main track, 113 feet southwest of southwest corner of railroad station at Penland, on north side of North Toe River, 15 feet north of store building. A standard tablet stamped "E 4 1934", marked "2460" and set in top of a precast concrete post.

NOTE: Searched for but not found. Thought to be covered with about 3 feet of railroad fill.

ELEVATION: 2462.200 feet or 750.480 meters (C-2)

E 5 (USGS, 1934; Mitchell County, North Carolina)

Located at Boonford, 140 feet north of Boonford Railroad station, on west side of Clinchfield Railroad, about 100 feet west of North Toe River, at north end of deep cut on railroad. A standard tablet stamped "E 5 1934", Elev. 2399", and set in top of concrete post.

NOTE: Searched for but not found; September, 1960.

Reference Mark 1 is 56 feet north of tablet, on rock boulder; chiseled square, painted white and 2.05 feet higher than tablet.

Reference Mark 2 is 390 feet southeast of tablet, in boulder; top of highest steel shaft and 2.58 feet lower than tablet.

ELEVATION: 2400.999 feet or 731.826 meters (C-2)

1 JS 5 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 1.7 miles from bridge over Toe River in Spruce Pine, along North Carolina 226 to Bakersville, 39.0 feet southwest of edge of pavement, 61.0 feet S 35° E from southeast corner of block building, and 48.26 feet from northeast corner of block building, and 48.26 feet from northeast corner of Minpro Grocery store. A standard disk stamped "1 JS 5" in top of 6 inch square concrete post, approximately .5 feet above ground.

Reference Mark 1 is 76.8 feet N 85° W to nail and cap in service pole.

Reference Mark 2 is 17.4 feet S 80° E to nail and cap in telephone pole.

GRID POSITION (North Carolina): X = 1,085,117.1; Y = 807,280.9 (HWY-3)

Grid Azimuth to 1 JS 6: 148°10'30"; 498.0 feet

ELEVATION: 2645.81 feet (HWY-3)

1 JS 6 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 1.8 miles from bridge over Toe River in Spruce Pine, northeast side of North Carolina 226 to Bakersville, 29.0 feet from northeast edge of pavement. A standard disk stamped "1 JS 6" and set in top of 6-inch square concrete post, approximately .5 feet above ground.

Reference Mark 1 is 32.8 feet N25°W to nail and cap in 10-inch pine.

Reference Mark 2 is 20.6 feet N47°E to nail and cap in 12-inch poplar.

Reference Mark 3 is 15.5 feet S40°E to nail and cap in 8-inch poplar.

GRID POSITION (North Carolina): X = 1,084,854.6; Y = 807,704.0 (HWY-3)

Grid Azimuth to 1 JS 5: 328°10'30"; 498.0 feet

ELEVATION: 2650.29 feet (HWY-3)

1 JS 7 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 2.78 miles from bridge over Toe River, along North Carolina 226 to Bakersville, 6.25 feet N 20° E of northeast edge of pavement on east corner of concrete headwall. A standard disk stamped "1 JS 7" and set in headwall.

Reference Mark 1 is 58.25 feet N 35° W to nail and cap in 6 inch poplar tree.

Reference Mark 2 is 20.7 feet N 72° E to nail and cap in 10 inch poplar tree.

Reference Mark 3 is 6.25 feet S 20° W to nail and cap in edge of pavement.

GRID POSITION (North Carolina): X = 1,083,650.1; Y = 811,400.4 (HWY-3)

Grid Azimuth to 1 JS 8: 123°22'40"; 326.7 feet

ELEVATION: 2644.90 feet (HWY-3)

1 JS 8 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 2.81 miles from bridge over Toe River, in Spruce Pine, along North Carolina 226 to Bakersville, 50.07 feet N10°W of northwest edge of pavement. A standard disk stamped "1 JS 8" and set in a 6-inch square concrete post.

Reference Mark 1 is 34.80 feet N 10° E to nail and cap in 12-inch oak tree.

Reference Mark 2 is 32.77 feet S 60° E to nail and cap in 12-inch oak tree.

GRID POSITION (North Carolina): X = 1,083,377.4; Y = 811,579.9 (HWY-3)

Grid Azimuth to 1 JS 7: 303°22'40"; 326.7 feet

ELEVATION: 2665.70 feet (HWY-3)

1 JS 9 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 3.6 miles from bridge over Toe River, in Spruce Pine, along North Carolina 226 to Bakersville. A standard disk stamped "1 JS 9" and set in a 6-inch square concrete post.

Reference Mark 1 is 22.95 feet S 28° E to nail and cap in edge of pavement.

Reference Mark 2 is 31.90 feet S 70° E to nail and cap in edge of pavement.

Reference Mark 3 is 33.18 feet S 12° W to nail and cap in edge of pavement.

GRID POSITION (North Carolina): X = 1,080,848.6; Y = 812,502.2 (HWY-3)

Grid Azimuth to 1 JS 10: 211°19'00"; 441.6 feet

ELEVATION: 2666.45 feet (HWY-3)

1 JS 10 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 3.7 miles from bridge over Toe River, in Spruce Pine, 8.64 miles from courthouse in Bakersville, on northeast side of North Carolina 226 to Bakersville, 17.0 feet northeast side of edge of pavement. A standard disk stamped "1 JS 10" and in top of a 6-inch square concrete post, approximately 0.5 feet above the ground.

Reference Mark 1 is 9.3 feet N25°E to nail and cap in 4-inch oak tree.

Reference Mark 2 is 7.9 feet N80°E to nail and cap in 3-inch dogwood tree.

Reference Mark 3 is 45.3 feet due west to nail and cap in telephone pole.

GRID POSITION (North Carolina): X = 1,081,078.1; Y = 812,879.4 (HWY-3)

Grid Azimuth to 1 JS 9: 31°19'00"; 441.6 feet

ELEVATION: 2649.76 feet (HWY-3)

1 JS 11 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 4.95 miles from bridge over Toe River in Spruce Pine, 11.55 feet southwest of southwest edge of pavement, at northwest corner of rock wall in front of residence, along North Carolina 226 to Bakersville. A standard disk stamped "1 JS 11" and set in a 6-inch square concrete post.

Reference Mark 1 is 0.75 foot S64°E to northwest corner of rock wall.

Reference Mark 2 is 47.40 feet N88°W to nail and cap in 30 inch white oak.

Reference Mark 3 is 25.23 feet S43°W to northeast corner of frame barn.

GRID POSITION (North Carolina): X = 1,080,373.50; Y = 818,351.4 (HWY-3)

Grid Azimuth to 1 JS 12: 131°15'10"; 1062.1 feet

ELEVATION: 2638.79 feet (HWY-3)

1 JS 12 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 5.2 miles from Toe River in Spruce Pine, 7.4 miles from courthouse in Bakersville, along North Carolina 226 to Bakersville, 2 feet northeast of fence line at edge of cultivation line. A standard disk stamped "1 JS 12" and set in top of a 6-inch square concrete post, approximately 0.5 foot above ground.

Reference Mark 1 is 52.4 feet N 20° E to nail and cap in telephone pole.

Reference Mark 2 is 9.8 feet N 65° E to nail and cap in edge of pavement.

Reference Mark 3 is 29.0 feet S 30° E to nail and cap in light pole.

GRID POSITION (North Carolina): X = 1,080,357.7; Y = 818,375.7 feet (HWY-3)

Grid Azimuth to 1 JS 11: 311°15'10"; 1062.1 feet

ELEVATION: 2663.36 feet (HWY-3)

1 JS 13 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 6.24 miles from bridge over Toe River in Spruce Pine, along North Carolina 226 to Bakersville, 36.70 feet N 10° E of northeast edge of pavement, on west bank of small drain, about 200 feet southeast of large barn on hill, and 2.03 feet from nail and cap in 12 inch apple tree. A standard disk stamped "1 JS 13" and set in 6 inch square concrete post.

Reference Mark 1 is 48.25 feet S 42° W to nail and cap in pole.

Reference Mark 2 is 36.70 feet S 10° W to nail and cap in edge of pavement.

Reference Mark 3 is 50.78 feet S 85° E to nail and cap in 12-inch apple tree.

GRID POSITION (North Carolina): X = 1,074,944.50; Y = 821,124.2 (HWY-3)

Grid Azimuth to 1 JS 14: 50°33'00"; 1202.8 feet

ELEVATION: 2830.31 feet (HWY-3)

1 JS 14 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 6.48 miles from bridge over Toe River along North Carolina 226 to Bakersville, 600 feet east of ledge, North Carolina and on eastern side of drive south to two residences, and 2.03 feet N 10° E from 8 inch pine. A standard disk stamped "1 JS 14" and set in 6 inch square concrete post.

Reference Mark 1 is 42.60 feet S 63° E to nail and cap in base of pole.

Reference Mark 2 is 17.40 feet N 10° E to nail and cap in edge of pavement.

GRID POSITION (North Carolina): X = 1,074,015.9; Y = 820,360.1 (HWY-3)

Grid Azimuth to 1 JS 13: 230°33'00"; 1202.8 feet

ELEVATION: 2774.21 feet (HWY-3)

1 JS 15 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 7.1 miles from bridge over Toe River in Spruce Pine, 5.2 miles along North Carolina 226 from courthouse in Bakersville, 66 feet west of power pole. A standard disk stamped "1 JS 15" and mounted in large boulder, approximately 0.6 foot above ground.

Reference Mark 1 is 31.6 feet N 30° E to edge of pavement of road.

Reference Mark 2 is 66.6 feet east to nail and cap in telephone pole.

Reference Mark 3 is 58.0 feet N 45° W to nail and cap in 4-inch apple tree.

GRID POSITION (North Carolina): X = 1,071,128.1; Y = 819,632.1 (HWY-3)

Grid Azimuth to 1 JS 16: 26°32'20"; 744.7 feet

ELEVATION: 2827.96 feet (HWY-3)

1 JS 16 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 7.1 miles from bridge over Toe River in Spruce Pine, 5.2 miles from courthouse in Bakersville, also 776.5 feet from northeast edge of pavement on North Carolina Highway 226, and 135 feet, more or less, northeast of ridge line. A standard bronze disk stamped "1 JS 16" and mounted in a concrete post.

Reference Mark 1 is 65.5 feet S 5° W to nail and cap in 4 inch locust tree.

Reference Mark 2 is 47.3 feet S 25° E to nail and cap in 5 inch pine.

Reference Mark 3 is 37.0 feet S 70° E to nail and cap in 5 inch pine.

GRID POSITION (North Carolina): X = 1,070,795.45; Y = 818,966.0 (HWY-3)

Grid Azimuth to 1 JS 15: 206°32'20"; 744.7 feet

ELEVATION: 2860.38 feet (HWY-3)

1 JS 17 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 8.5 miles from bridge over Toe River in Spruce Pine, 3.8 miles along North Carolina Highway 226 from courthouse in Bakersville, 29.3 feet northeast of a point on edge of pavement which is 263 feet from the centerline intersection of Mine Creek Road, and is on the centerline projection of Mine Creek Road. A standard bronze disk stamped "1 JS 17" and mounted in concrete post.

Reference Mark 1 is 32.0 feet N 10° W to nail and bottle cap in 3-inch locust.

Reference Mark 2 is 15.0 feet N 70° E to nail and bottle cap in 8-inch locust.

Reference Mark 3 is 28.5 feet S 70° E to nail and cap in 10-inch gum tree.

GRID POSITION (North Carolina): X = 1,069,917.8; Y = 825,888.6 (HWY-3)

Grid Azimuth to Fire Tower: 343°51'20"

ELEVATION: 2910.68 feet (HWY-3)

1 JS 18 (NORTH CAROLINA HIGHWAY DEPT., 1959; Mitchell County, North Carolina)
 Located 9.8 miles from bridge over Toe River in Spruce Pine, 2.3 miles from courthouse in Bakersville, along Highway 226 North Carolina to Bakersville, on west side of road 60 feet from edge of existing pavement, and 15 feet north of soil road at center of narrow ridge. Station is 45.7 feet N 40° E of a 24-inch oak, 9.7 feet N 30° W of telephone pole, and 21.7 feet S 70° W of power pole. A standard disk stamped "1 JS 18" and set in top of concrete post, approximately 0.5 foot above ground.

GRID POSITION (North Carolina): X = 1,066,304.1; Y = 831,895.7 (HWY-3)

Grid Azimuth to 1 JS 19: 198°00'50"; 2282.2 feet

ELEVATION: 2803.36 feet (HWY-3)

K 128 (USC&GS, 1935; McDowell County, North Carolina)
 Located about 4.3 miles southeast along State Highway 80 from the post office at Busick, Yancey County, about 1.3 miles northwest of McCloskey C.C.C. Camp, about 38 yards east of the east end of a guard rail at a sharp curve, in a small ravine northeast of the curve, 32 feet northeast of the centerline of the highway, 15 feet northwest of and 4 feet lower than a stone culvert on the northeast side of the highway, and about 5 feet higher than the highway. A standard disk stamped "K 128 1935" and set in the top of a concrete post.

NOTE: Searched for but not found, June 1955.

ELEVATION: 2320.901 feet or 707.412 meters (C-2)

L 60 (USC&GS, 1934; McDowell County, North Carolina)
 Located at North Cove, at the Clinchfield Railroad station, about 0.4 mile northeast of milepost 208, about 38 yards northeast of the centerline of a crossroad, about 25 yards southeast of the centerline of the track, 1 foot northwest of a barbed wire fence, and about 1 foot higher than the top of the rail. A standard disk stamped "L 60 1934" and set in top of a concrete post.

ELEVATION: 1468.619 feet* and 447.636 meters (C-2)

NOTE: *Use this elevation with caution since additional leveling may require readjustment.

L 128 (USC&GS, 1935; McDowell County, North Carolina)
 Located about 3.2 miles southeast along State Highway 80 from the post office at Busick, Yancey County, in a small ravine on the east side of a sharp horseshoe curve, 36 feet north of a small stone culvert, 31 feet northeast of the centerline of the highway, and about 5 1/2 feet higher than the highway. A standard disk, stamped "L 128 1935" and set in the top of a concrete post.

ELEVATION: 2687.731 feet or 819.222 meters (C-2)

LIT 816 (TVA, 1938; Yancey County, North Carolina)
 Located 5.5 miles east of Burnsville, North Carolina at Micaville, 65 feet north U.S. Highway 19 E, on property owned by Black Mountain Railroad Company; 18 feet north of Little Crabtree Creek, 34 feet northwest of bridge over Little Crabtree Creek, 300 feet northwest of intersection of US Highway 19 E and North Carolina Highway 104, 105 feet north of Micaville Exchange, and 100 feet east of west end of double railroad track. A standard TVA tablet set in top of precast concrete post.

Reference Mark 1 is 67.6 feet N 30° W to 4 inch locust tree.

Reference Mark 2 is 34.0 feet S 60° E to northwest corner of bridge.

ELEVATION: 2454.834 feet or 748.235 meters (T-2)

LIT 818 (TVA, 1938; Yancey County, North Carolina)
 Located 7.3 miles east of Burnsville, North Carolina 2.2 miles southwest of Boonford, North Carolina, 12 feet northwest of North Carolina State Highway 104; 110 feet south of a large chicken house; 150 feet east of Bill Preston's house; 6 feet south of a drain; 35 feet northwest of mine branch; 3 feet northeast of a path; and about 800 feet north of intersection of US Highway 19 E and North Carolina

State Highway 104. A standard TVA tablet set in top of precast concrete post, and stamped "LHT 818 1938".

Reference Mark 1 is 34.2 feet S 35° E to a 4 inch sycamore tree.

Reference Mark 2 is 46.3 feet S 90° W to a 10 inch maple tree.

ELEVATION: 2490.973 feet or 759.250 meters (T-2)

LHT 819 (TVA, 1938; Yancey County, North Carolina)

Located 8.5 miles east of Burnsville, North Carolina, 1.0 miles southwest of Boonford, North Carolina, 18 feet southeast of North Carolina State Highway 104, 55 feet southeast of a branch, 13 feet northwest of wire fence, 800 feet southwest of a red barn, 100 feet northeast of intersection of drain and road, on bank and 6 feet above level of highway. A standard TVA tablet set in top of precast concrete post.

Reference Mark 117.55 feet N 12° E to painted telephone pole.

Reference Mark 16.80 feet N 75° E to painted fence post.

ELEVATION: 2514.362 feet or 766.379 meters (T-2)

LR 218 (TVA, 1938; Yancey County, North Carolina)

To reach, from post office at Erwin, Tennessee, drive south on Highway 19 W and 23, 22.7 miles to river bridge across Cane River. Turn left on Highway 26 (temporary), go 6.7 miles. Turn right on gravel road, go 4.0 miles to intersection of Highway 197. Turn left on 197, go 0.1 mile, turn right on gravel road, go 2.8 miles, then left on dim road, go 0.6 miles to white farm house and barn. Leave car, follow sled road to top of ridge approximately 2500 feet. Then turn right following comb of ridge approximately 200 feet to clump of bushes in corn field. Angle iron is at extreme north end of clump of bushes, and 100 feet east from edge of woods. Station is a 1 x 1 angle iron stamped "TVA LR 218 1938".

Reference Mark 1 is 73.0 feet northwest to a 10 inch apple tree.

Reference Mark 2 is 6.4 feet south to thorn bush.

GEODETIC POSITION: Lat. = 35°58'27.61"; Long. = 82°14'56.51" (T-4)

GRID POSITION (North Carolina): X = 1,038,781.1; Y = 825,265.1 (T-4)

GRID POSITION (Tennessee): X = 3,109,641.7; Y = 597,246.5 (T-4)

ELEVATION: 3669 (T-5)

LR 304 (TVA, 1938; Yancey County, North Carolina)

Located 5 miles from Burnsville. To reach, drive east on Highway 19 East, 4.5 miles to Cane Branch road, and Interstate Fels Dar Company Building. Turn right on gravel road, crossing bridge, go 0.7 miles to T-road left. Turn left, go 0.1 mile to barn. Leave car at barn, continue on foot up hollow 1200 feet to top of hill at fence and hedge row. Station is 500 feet south of southeast corner of woods, 15 feet southwest from fence intersection east, 8 feet west of fence line in grass at edge of foliage at hedge row. Station is a 1 x 1 angle iron, stamped "TVA LR 304 1938".

Reference Mark 1 is 16.45 feet N 55° E to a 6 inch poplar.

Reference Mark 2 is 10.95 feet S 60° E to a 6 inch locust.

Reference Mark 3 is 13.80 feet N 72° E to fence corner.

Reference Mark 4 is 9.75 feet S 20° E to a 3 inch oak.

GEODETIC POSITION: Lat. = 35°54'06.810"; Long. = 82°13'44.442" (T-4)

GRID POSITION (Tennessee): X = 3,116,577.0; Y = 571,123.6 (T-4)

ELEVATION: 2830 feet (T-5)

M 128 (USC&GS, 1935; McDowell County, North Carolina)

Located about 2.2 miles east along State Highway 80 from the post office at Busick, Yancey County, about 0.7 mile southeast by highway from Buck Creek Gap, on the outside of a hairpin curve, 15 feet northeast of the centerline of the highway, 5 feet north of the north end of a guardrail, and about 1 foot higher than the highway. A standard disk, stamped "M 128 1935" and set in the top of a concrete post.

ELEVATION: 3080.092 feet or 938.814 meters (C-2)

MCD 501 (TVA, 1957; McDowell County, North Carolina)

Located 0.1 foot underground. To reach station from Marion Post Office, go north on US Highway 221 8.6 miles to T-road northeast road to American Thread plant, turn right on road and go 0.6 mile to plant entrance, continue on same road 0.7 mile to T-road west and station. Station is 160.1 feet N 43° E from northeast corner of bridge, 72.5 feet S 02° E from rock outcrop, 48 feet S 61° W from nail in telephone pole No. 26, and 15.9 feet S 33° E of centerline T-road west. Station is an iron pin, not stamped.

GRID POSITION (North Carolina): X = 1,104,557.7; Y = 757,675.5 (T-4)

ELEVATION: 1389 feet (T-5)

MS 713 (TVA, 1941; Yancey County, North Carolina)

Located in a southwest corner of quad 209 southwest, 1.5 miles (airline) northeast of Mt. Mitchell Tower. To reach from square in Burnsville, North Carolina drive east on U.S. Highway 19 East for 0.55 mile to intersection of U.S. Highway 19 East and State Highway 197, south. Turn right on State Highway 197 and drive south past Marchison, continue along Wilson Toll Road to Stepp's Gap in all 25.7 miles, take right hand road down mountain past Camp Alice to hairpin curve, in all about 1.7 miles, and log road east. Drive east along log road for 0.7 mile to rock outcrop and end of car travel. Follow old road around side of mountain on foot for 2.8 miles to curve (approximately 500 feet southwest of Balsam Timber Line, which runs north-south along centerline of ridge). From curve climb north up ridge to centerline and top, in all about 400 feet. Here on highest top of ridge at base of 20 inch dead stump is station. Station is a 1 x 1 angle iron stamped "MS 713".

Reference Mark is S 46° W, 3.00 feet to tack in top of 20 inch stump.

GRID POSITION (North Carolina): X = 1,037,701.4; Y = 755,300.3 (T-4)

ELEVATION: 5613 (T-5)

N 60 (USC&GS, 1934; McDowell County, North Carolina)

Located about 2.2 miles south along the Clinchfield Railroad from the station at Sevier, McDowell County, about 70 yards north of milepost 212, at a concrete culvert, in the top of the east concrete head wall, 1 foot north of the south end, and about 6 yards east of the centerline of the main track. A standard disk stamped "N 60 1934".

ELEVATION: 1333.892 feet or 406.571 meters* (C-2)

NOTE: *Use this elevation with caution since additional leveling may require a readjustment.

N-123 (TVA, 1938; Mitchell County, North Carolina)

Located on right bank of North Toe River, 2 miles east of Spruce Pine on road to Altapass. A chiseled square on upstream end of bridge pier.

ELEVATION: 2557.36 (T-3)

N 128 (USC&GS, 1935; Yancey County, North Carolina)

Located 0.6 mile along State Highway 80 from the post office at Busick, Yancey County, about 1.0 mile west of Buck Creek Gap, 38.6 feet northwest of the northwest corner of the M. W. Grass general store, 25 feet southeast of the center line of the highway, and 3 feet lower than the highway. A standard disk stamped "N 128 1935" and set in the top of a concrete post.

NOTE: Searched for but not recovered, October 1960.

ELEVATION: 2999.764 feet or 914.330 meters (C-2)

NT 10 (USED, 1926; Mitchell County, North Carolina)

Located 0.4 mile upstream from Bandana Station, on right bank of North Toe River, 100 feet east of water edge, on upstream end of Clinchfield Railroad culvert over small branch. Station is a chiseled cross painted red.

ELEVATION: 2335.1 feet (T-4)

NT 12 (USED, 1926; Mitchell County, North Carolina)

Located at Boonford, North Carolina, on concrete highway bridge over North Toe River, at base of east end of concrete guard rail, upstream side. Station is a chiseled cross painted red.

ELEVATION: 2403.34 feet (T-3)

NT 17 (USED, 1926; Mitchell County, North Carolina)

Located at Spruce Pine, North Carolina, on right bank of North Toe River, 800 feet downstream from railroad station, at bridge for State Highway No. 69, over Clinchfield Railroad tracks and North Toe River, on right bank abutment, upstream side. Station is a chiseled cross.

ELEVATION: 2518.61 feet (T-3)

NT 22 (USED, 1926; Avery County, North Carolina)

Located 0.9 mile upstream from mouth of Brushy Creek, at bridge for US Highway 19 E, over North Toe River, on top of left bank abutment, downstream side. Station is a chiseled cross painted red.

ELEVATION: 2642.61 feet (T-3)

NT 29 (USED, 1926; Avery County, North Carolina)

Located 2.1 miles south of Spear, North Carolina, on U.S. Highway 19E, at concrete bridge over Pyatt Creek, on top of abutment at north end, downstream side. Station is a chiseled cross painted red.

ELEVATION: 2802.64 feet (T-3)

P 21 (TVA, 1938; Mitchell County, North Carolina)

Located on Highway No. 80, approximately 0.5 mile north of Young Chapel, 300 feet south of Boonford Station, on the north end of concrete bridge over North Toe River, and on north end of upstream hand rail. Station is a chiseled square, painted "TBM P-21".

ELEVATION: 2406.495 feet or 733.501 meters (C-2)

P-22 (TVA, 1938; Mitchell County, North Carolina)

Located 1.0 mile north of Boonford Station, on Clinchfield Railroad, approximately 600 feet north of milepost No. 176, on west side of railroad, and 15 feet west of centerline of tracks. Station is a chiseled square.

ELEVATION: 2413.509 feet or 735.639 meters (C-2)

P 128 (USC&GS, 1935; Yancey County, North Carolina)

Located about 0.8 mile west along State Highway 80 from the post office at Busick, about 110 yards east of the junction of a game refuge road, 30 feet west of northwest corner store with a tin roof, 20 feet east of 12-inch double poplar, 21 feet south of the centerline of the highway, 4 feet north of a barbed wire fence, and level with the highway. A standard disk stamped "P 128 1935" and set in the top of a concrete post.

ELEVATION: 2866.067 feet or 873.579 meters (C-2)

FIG PEN BLUFF (USGS, 1927; Yancey County, North Carolina)

Located about 4 miles northeast of Windom Post Office on second peak on ridge, north of road thru gap, 500 feet east of cleared ridge. Said ridge being on the northeast end of Green Mountain. Station near center of top. Signal is 2 flags on pole in tree 6.8 feet N 35° W from station. Station is a standard tablet set in rock and stamped "FIG-PEN BLUFF 1934".

GEODETIC POSITION: Lat. = 35°57'35.649"; Long. = 82°14'54.537" (G-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Flat Top	124°15'23.8"	304°09'45.0"	4.241 886	10.8
Peters	154 22 24.2	334 19 52.2	4.174 597	9.3
Roan High Bluff	212 03 43.9	32 07 21.5	4.241 535	10.8
Yellow	259 43 53.0	79 50 32.9	4.239 028	10.8

GRID POSITION (Tennessee): X = 3,110,005.4; Y = 592,002.9 (G-3)

ELEVATION: 4401.4 (T-5)

Q 128 (USC&GS, 1935; Yancey County, North Carolina)

Located about 1.8 miles southwest along State Highway 80 and an improved road from the post office at Busick, about 1.0 mile southwest of the junction of the highway with the road, 0.3 mile northeast of the northeast entrance to Mt. Mitchell State Game Refuge, 65 feet northwest of 16 inch beech tree, 15 feet west of the centerline of the road, and 2 feet higher than the road. A standard disk stamped "Q 128 1935" and set in the top of a concrete post.

ELEVATION: 2909.876 feet or 886.932 meters (C-2)

SPRUCE PINE 1 (USGS, 1934; Mitchell County, North Carolina)

Located about 3 miles southeast of Bakersville, about 1/2 mile northeast of gap where old road crosses up Snow Creek, 155 feet N 22° E of three corner fence intersection, 40 feet west of top of ridge. Station mark is drill hole in rock set 10 feet north of 20 inch hickory tree.

GEODETIC POSITION: Lat. = 35°59'18.59"; Long. = 82°08'58.75" (G-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Fig Pen Bluff	70°25'49.64"	250°22'20.66"	3.9759 293	5.9
Roan High Bluff	181°45'50.71"	01 45 59.11	4.0647 541	7.2

SPRUCE PINE 2 (USGS, 1934; Mitchell County, North Carolina)

Located about 1 mile south of Toecane on highest point in orchard owned by E. D. Bowditch. Station is a drill hole in rock set in place S 55° E, 97.5 feet from center of small water reservoir on peak of hill.

GEODETIC POSITION: Lat. = 35°59'59.98"; Long. = 82°10'47.50" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pig Pen Bluff	54°18'14.97"	234°15'49.86"	3.8820 316	4.4
Roan High Bluff	196 35 39.92	16 36 52.31	4.0342 618	6.7

SPRUCE PINE 3 (USGS, 1934; Yancey County, North Carolina)

Located about 3 miles northwest of Newdale Post Office on a top on the west side of a cleared field, on southwest end of ridge in top of a 15 foot locust tree.

GEODETIC POSITION: Lat. = 35°55'13.94"; Long. = 82°11'40.46" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pig Pen Bluff	131°55'57.63"	311°54'03.72"	3.8154 021	4.1
Wilson's Knob	220 02 50.18	40 05 15.96	3.9852 840	6.0

SPRUCE PINE 4 (USGS, 1934; Mitchell County, North Carolina)

Located 2 miles northwest of Estate Post Office on northwest end of wooded top known as "The Peak", 1 mile north of road along Brushy Creek. Station is a drill hole in rock directly under 15 inch hickory in line fence traversing the top of ridge.

GEODETIC POSITION: Lat. = 35°55'23.04"; Long. = 82°08'00.09" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pig Pen Bluff	111°30'32.37"	291°26'29.11"	4.0477 814	6.9
Wilson's Knob	185 36 45.25	05 37 01.64	3.8544 081	4.4

SPRUCE PINE 7 (USGS, 1934; Mitchell County, North Carolina)

Located about 3 miles (airline) northeast of Spruce Pine, on property of The Kaolin Corporation. Station is located at the base and on east side of a 36 inch poplar tree stump about 15 feet tall, 12 feet west of line fence traversing ridge between the property of Mr. Wiseman and The Kaolin Corporation; mark is 12 feet west of west edge of cleared field on southeast end of ridge. To reach from Spruce Pine post office go 3.4 miles northeast on U.S. Route 19E to Mt. Zion Church, thence north and west 0.6 mile across a branch and up hill to an abandoned apple orchard, thence 1200 feet northeast to summit of ridge and station. A standard tablet stamped "S.P. 7 1933" and set in an iron pipe with rock cemented in place around iron pipe.

GEODETIC POSITION: Lat. = 35°56'32.49"; Long. = 82°01'04.26" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Woodys Knob	48°25'42.23	228 22 39.45	4.0194 614	6.5
Yellow	143 21 21.79	323 19 54.20	3.7965 615	3.9

ELEVATION: 3217 feet (G-5)

SPRUCE PINE 8 (USGS, 1934; Mitchell County, North Carolina)

Located about 1 mile north of Windom Post Office, on top of Bald Knob Ridge. Station is drill hole in rock directly under a locust tree on wooded top.

GEODETIC POSITION: Lat. = 35°56'08.972"; Long. = 82°14'27.213" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Celo	128°10'9"	184°22'33.7"	3.967 953	5.8
Pig Pen Bluff	165 37 27.6	345 37 11.8	3.440 567	1.7
Woodys Knob	296 45 24.3	116 50 12.3	4.139 695	8.6

GRID POSITION (Tennessee): X = 3,112,586.5; Y = 583,331.3 (G-3)

SPRUCE PINE 9 (USGS, 1934; Mitchell County, North Carolina)

Located 0.5 mile north of Spruce Pine on north end of cleared top.

Station mark is drill hole.

GEODETIC POSITION: Lat. = 35°55'25.22"; Long. = 82°03'53.86" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Woodys Knob	36°14'48.68"	215°13'25.23"	3.7808 695	3.8
Whitening Spur	310 21 55.32	130 24 23.25	3.9193 973	5.2

ELEVATION: 3273 feet (G-5)

SPRUCE PINE 14 (USGS, 1934; Yancey County, North Carolina)

Located about 1 mile east of town of Celo and $\frac{1}{2}$ mile north of bend in South Toe River. Point is drill hole in rock on west edge of private drive, 50 feet N 51° E of junction with highway.

GEODETIC POSITION: Lat. = 35°51'28.39"; Long. = 82°10'57.66" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Mt. Mitchell	35°49'20.12"	215°46'26.35"	4.1053 895	7.9
Celo	84 08 17.31	264 05 58.03	3.7780 085	3.7

ST 2 (A) (TVA, 1941; Yancey County, North Carolina)

To reach from Burnsville, drive south on temporary South Highway 197 10.0 miles to Pensacola, turn left and drive southeast 4.60 miles up winding road to "Y" road intersection. Turn right and continue to second horseshoe bend. Park car and keep same trail about 1.0 mile to old tram road bed, turn right and continue on tram road bed 1.40 miles, to where said trail bends around Winter Star Ridge. Leave trail here and climb east up centerline of said ridge about 3/4 miles to top of mountain, highest balsam covered top. Station is 40 feet southwest of highest point on top, and 12 feet east of a 10 inch balsam tree. Station is a 1- by 1-inch angle iron stamped "ST 2".

Reference Mark 1 is 11.48 feet N 83° W to tack in 14-inch balsam.

Reference Mark 2 is 8.70 feet N 71° E to tack in 4-inch balsam.

Reference Mark 3 is 3.83 feet S 29° E to tack in 6-inch balsam.

GRID POSITION (North Carolina): X = 1,036,817.0; Y = 768,229.1 (T-4)

ELEVATION: 6203 feet (T-5)

ST 2 (B) (USED, 1926; Yancey County, North Carolina)

Located 1.95 miles upstream from Kona, on left bank of North Toe River, 150 feet downstream from mile post No. 2, and 400 feet east of old abandoned mica mill, on south side of railroad track, on top of large rock. Station is a chiseled cross in circle.

ELEVATION: 2390.1 feet (T-4)

ST 7 (USED, 1926; Yancey County, North Carolina)

Located near Newdale, on right bank of South Toe River, 0.2 mile downstream from Burnsville bathing beach, at bridge for U.S. Highway 19E, on top of right bank pier, upstream side. A chiseled cross in circle.

ELEVATION: 2463.5 feet (T-4)

T 59 (USC&GS, 1934; Mitchell County, North Carolina)

Located at Lunday, about 1 rail west of the Clinchfield Railroad station, at a grade crossing, about 45 feet north of the centerline of the main track, and 3 feet west of the stone steps to a gray house. Station is a standard USC&GS

State Survey Disk in the top of a precast post stamped "T 59 1934".
ELEVATION: 2346.206 feet or 715.125 meters (C-1)

TRM CHISELED SQUARE (USGS, 1934; Yancey County, North Carolina)

Located 0.8 miles west of Newdale Post Office, 185 feet south of tablet E-6 (USGS), in east column of south pier of bridge over South Toe River. Station is a chiseled cross in circle.

ELEVATION: 2463.460 feet or 750.864 meters (T-2)

THREE KNOBS F.T. = F.S. STA. 132 (USGS, 1934; Mitchell-Yancey-McDowell, North Carolina)

Located on highest point of Three Knobs (the middle one). Station is a forest service standard concrete post 132, 14 inches in ground.

GEODETIC POSITION: Lat. = 35°49'06.354; Long. = 82°08'12.045" (G-3)

To Station	Geodetic Azimuth		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Horse Gap	24°01'49.2"	204°00'59.8"	3.716 057	3.2
Mitchell	62 52 43.3	242 48 12.7	4.115 847	8.1
Celo	110 25 23.4	290 21 27.2	4.033 523	6.7
Woodys Knob	203 06 42.0	23 07 49.9	3.869 326	4.6

GRID POSITION (North Carolina): X = 1,070,216.2; Y = 767,475.5 (G-3)

GRID POSITION (Tennessee): X = 3,145,101.2; Y = 541,834.0 (G-3)

ELEVATION: 4078 feet (G-5)

TT 51 FI (USGS, 1947; Avery County, North Carolina)

Located at Mt. Zion Church, 3.6 miles northeast of Spruce Pine post office along U.S. Route 19E, about 200 feet northeast of Avery-Mitchell county line, 29 feet north of locust tree in church yard, 14 feet east of edge of cliff on east high bank of highway, in churchyard. Station is a standard tablet stamped "TT 51 1947" and set in 7- by 7-inch concrete post.

GEODETIC POSITION: Lat. = 35°55'55.26"; Long. = 82°00'54.31" (G-3)

TT 52 FI (USGS, 1947; Avery County, North Carolina)

Located 400 feet north of Sunny Brook Store, 1.9 miles south of Ingalls, 15 feet east of centerline of highway in center of a small triangle plot formed by cut off roads from T-road east. A standard tablet stamped "TT 52 FI 1947" and set in 7- by 7-inch concrete post.

NOTE: Searched for, but not found, September 1960.

GEODETIC POSITION: Lat. = 35°57'04.74"; Long. = 82°00'06.76" (G-3)

V 59 (USC&GS, 1934; Mitchell County, North Carolina)

Located about 0.3 mile west along the Clinchfield Railroad from Penland, Mitchell County, about 3 rails west of a grade crossing, about 6 1/2 rails east of a switch and telephone booth, and about 20 feet north of the centerline of the track. A standard USC&GS State Survey Disk set in the top of a precast concrete post and stamped "V 59 1934".

NOTE: Searched for but not recovered, October, 1960.

ELEVATION: 2460.153 feet or 749.856 meters (C-2)

WILSON KNOB (USGS, 1934; Mitchell County, North Carolina)

Located about 2.5 miles southeast of Bakersville, on the north end of cleared top, 20 feet southwest of intersection of fences, one running north, the other northeast; 9 feet west of fence running north. Station can be reached by driving up to headwaters of Snow Creek and walking to top in a northerly direction. Station is a drill hole in rock in center of triangle.

GEODETIC POSITION: Lat. = 35°59'13.955"; Long. = 82°07'32.145" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pig Pen Bluff	74°44'49.9"	254°40'30.2"	4.060 340	7.1
Roan High Bluff	171 14 28.9	351 13 46.3	4.074 946	7.4
Yellow	269 33 14.6	89 35 34.8	3.776 683	3.7

GRID POSITION (Tennessee): X = 3,145,953.2; Y = 603,351.8 (G-3)

ELEVATION: 3508 feet (G-5)

WOODYS KNOB (USGS, 1934; Mitchell County, North Carolina)

Located about 3.2 miles southwest of Spruce Pine on cleared top, known as Woodys Knob or Big Knob, 25 feet southeast of corner of line fence traversing top of ridge. Excellent view in all directions, 25 feet above ground. Station is a standard tablet stamped "WOODYS KNOB 1934" and set in rock, 17.6 feet N 15° W of observation platform.

GEODETIC POSITION: Lat. = 35°52'47.218"; Long. = 82°06'16.220" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Mitchell	48°43'24.2"	228°37'45.6"	4.286 344	12.0
Celo	76 53 35.5	256 48 31.2	4.126 399	8.3
Yellow	198 49 08.7	18 50 44.3	4.101 773	7.8

GRID POSITION (Tennessee): X = 3,153,743.9; Y = 564,526.2 (G-3)

ELEVATION: 4170 feet (G-5)

WOODS MIN FIRE TOWER (????, 1957; McDowell County, North Carolina)

No description available.

GRID POSITION (North Carolina): X = 1,084,122.0; Y = 752,352.0 (T-4)

ELEVATION: 3646 feet (T-5)

X 59 (USC&GS, 1934; Mitchell County, North Carolina)

Located at the northwest edge of Spruce Pine, Mitchell County, on the Clinchfield Railroad, about 8 1/2 rails north of mile post 183, at the concrete highway bridge over the track and river, and in the top of the southeast corner of the footing of the east abutment. Standard USC&GS State Survey Disk in the top of the southeast corner of the footing of the east abutment, stamped "X 59 1934".

ELEVATION: 2518.597 feet or 767.670 meters (C-2)

Y 59 (USC&GS, 1934; Mitchell County, North Carolina)

Located about 2 miles southeast along the Clinchfield Railroad from Spruce Pine, Mitchell County, at a railroad bridge, 6 feet west of the centerline of the track, and in concrete retaining wall. Standard USC&GS state survey disk in the top of the southeast corner of the east concrete retaining wall, stamped "Y 59 1934".

ELEVATION: 2578.016 feet or 785.781 meters (C-2)

YELLOW (USGS, 1934; Avery County, North Carolina)

Located about 6 miles southeast of Bakersville and 2.5 miles southeast of Hawk on top of Yellow Mountain. To reach from Spruce Pine, go to Bakersville, from Bakersville proceed east about 4 miles to Hawk, from Hawk, take road up