

SURVEY CONTROL DATA IN QUADRANGLE 208

2565 ASH (USGS, 1901; Carter County, Tennessee)

Located at Roan Mountain, on the East Tennessee & Western North Carolina Railroad, about 600 yards east of milepost 25, about 858 feet northwest of Roan Mountain Inn, about 75 feet north of the centerline of the track, and in the top of a rock ledge in the side of the mountain, and 1 foot higher than the rail. Station is a USGS standard disk, stamped "2565 ASH."
ELEVATION: 2,564.102 feet or 781.540 meters (G-1)

2626 ASH (USGS, 1901; Carter County, Tennessee)

Located about 0.5 mile west along the East Tennessee & Western North Carolina Railroad from Shell Creek, about 478 yards west of milepost 27, about 40 feet north of the west end of the railroad bridge over Wilson Creek, and in the top of a rock in the side of the mountain, 6 feet lower than the rail. Station is a USGS standard disk, stamped "2626 ASH."
ELEVATION: 2,625.014 feet or 800.106 meters (G-1)

2805 ASH (USGS, 1901; Mitchell County, North Carolina)

Located 0.35 mile north of Buladean (formerly Magnetic City) 275 feet southwest of highway, at southwest edge of old road, and 150 feet southwest of Spring Creek. Station is an aluminum plug, formerly stem of tablet stamped "2805 ASH" in side of boulder fronting road.

Reference Mark is 50 feet north of plug, on large boulder; chiseled square 0.65 foot lower than tablet.
ELEVATION: 2804.56 feet (G-3)

2840 ASH (USGS, 1901; Avery County, North Carolina)

Located at mouth of Henson Creek at Spear, projecting 0.02 foot above surfaced rock ledge. Station is a standard plug with cross on top (former stem of standard tablet stamped "2840 ASH" estimated 0.038 foot lower than former tablet surface).

Reference Mark is on southeast corner of concrete abutment of bridge over Henson Creek; chiseled square 1.81 feet higher than tablet.
ELEVATION: 2839.39 feet (G-3)

B-12 (USCGS, 1933; Carter County, Tennessee)

Located about 4.6 miles southeast along the East Tennessee & Western North Carolina Railroad from Hampton, Carter County, about 385 yards north of milepost 19, and in the top of a rock between Doe River and a highway, 5.5 feet east of the east rail, and 2 feet higher than the rail. A standard disk, stamped "B 12 1933."
ELEVATION: 2,274.067 feet or 693.137 meters (G-2)

BAKERSVILLE NO. 1 (USGS, 1934; Carter County, Tennessee)

Located about 1.5 miles northeast of Limestone Cove and about 200 feet northwest of highway at McKinney Gap on Spur Ridge. Station is drill hole in triangle chiseled on rock set in place directly under a 16 inch maple tree.

GEODETIC POSITION: Lat. = 36°12'08.494"; Long. = 82°14'30.277" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Fork	226°50'11.9"	146°52'34.6"	3,908 064	5.0
White Rock F.T.	249 31 44.9	69 36 01.5	4,063 594	7.2
Bakersville #2	296 14 07.7	116 15 55.2	3,705 231	3.2

BAKERSVILLE NO. 2 (USGS, 1934; Carter County, Tennessee)

Located about 2 1/2 miles south of Tiger Valley School, on ridge between Tiger and Clark Creeks, at corner of clearing and on top of highest hill in vicinity. Station is drill hole 2 feet N 50° E from center of a hickory tree.

GEODETIC POSITION: Lat. = 36°10'55.703"; Long. = 82°11'28.190" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Fork	182°53'39.7"	9°54'11.8"	3,897 337	4.9
White Rock F.T.	225 03 03.2	45 05 32.2	3,949 409	5.5
Roan High Bluff	337 29 29.4	157 31 05.9	4,029 311	6.6

BAKERSVILLE NO. 3 (USGS, 1934; Carter County, Tennessee)

Located 1.5 miles southwest of Crabapple, about 1200 feet south of a point where road crosses ridge. Station is a drill hole in rock.

GEODETIC POSITION: Lat. = 36°11'15.974"; Long. = 82°07'17.405" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Roan High Knob	0°34'00.7"	180°33'58.6"	3,965 926	5.7
Roan High Bluff	11 42 38.5	191 41 47.1	4,030 685	6.7
Fork	145 33 57.4	325 32 01.3	3,938 199	5.4

GRID POSITION (North Carolina Lambert): X = 1,078,940.6; Y = 901,711.9 (G-3)

ELEVATION: 3796 feet (G-5)

BAKERSVILLE NO. 4 (USGS, 1934; Carter County, Tennessee)

Located 1 mile southwest of Shell Creek, on sharp wooded drill hole top.

GEODETIC POSITION: Lat. = 36°10'43.601"; Long. = 82°03'15.822" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Roan High Knob	36°38'56.4"	216°36'30.8"	4,011 854	6.4
Fork	126 43 08.4	306 38 49.6	4,134 911	8.5
Fond	165 24 19.2	345 23 08.1	4,075 758	7.4

GRID POSITION (North Carolina Lambert): X = 1,098,634.6; Y = 897,823.8 (G-3)

ELEVATION: 3601 feet (G-5)

BAKERSVILLE NO. 5 (USGS, 1934; Carter County, Tennessee)

Located on crest of Yellow Mountain, in the Tennessee-North Carolina State Line, approximately 4.2 miles south of Roan Mountain Village, 3.8 miles southwest of Elk Park, North Carolina.

Reference Mark 1 is 36.5 feet, 865°E to drill hole in boulder.

Reference Mark 2 is 5.9 feet, 830°E to drill hole in rock.

GEODETIC POSITION: Lat. = 36°07'36.604"; Long. = 82°03'15.754" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Fork	141°54'15.9"	321°49'57.2"	4,248 655	11.0
Fond	170 09 56.3	350 08 45.2	4,244 878	10.9
Hump	248 30 31.4	68 32 01.3	3,613 024	2.5

ELEVATION: 4907 feet (G-5)

BAKERSVILLE NO. 6 (USGS, 1934; Carter-Mitchell County, Tennessee-North Carolina)

Located 5 1/2 miles south of Tiger Valley, about 1200 feet N65°W from point where Tiger Creek crosses state line ridge, 200 feet 865°W of southwest corner of large field. Station mark is drill hole in rock, 11.5 feet from center of a tree.

GEODETIC POSITION: Lat. = 36°08'55.632"; Long. = 82°11'33.528" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Unaka	80°31'03.6"	260°37'38.4"	3,945 581	5.5
Buffalo High Point	115 23 13.6	295 16 55.3	4,248 526	11.0
Fork Ridge	304 28 25.4	124 28 46.4	3,033 453	6.7

GRID POSITION (Tennessee Lambert): X = 3,123,843.7; Y = 661,345.7 (G-3)

BAKERSVILLE NO. 7 (USGS, 1934; Unicoi County, Tennessee)

Located 3 1/2 miles south of Limestone Cove, about 1 mile southwest of gap on Little Bald Knob, 20 feet S25°W from northwest corner of clearing. Station is a drill hole in rock set in ground.

GEODETIC POSITION: Lat. = 36°07'51.972"; Long. = 82°14'43.145" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Unaka	97°16'13.9"	277°14'40.5"	3,601 282	2.5
Fork Ridge	256 29 35.6	76 31 48.4	3,762 761	3.6
Roan High Bluff	295 10 15.9	115 13 47.2	3,996 290	6.2

GRID POSITION (Tennessee Lambert): X = 3,108,550.9; Y = 654,312.6 (G-3)

BAKERSVILLE NO. 9 (USGS, 1934; Mitchell County, North Carolina)

Located 1 mile southeast of Buchanan Post Office, in northwest end of cleared top, 200 feet southeast of end of ridge. Station is drill hole in rock 20 feet S10°E from a 10 inch locust tree.

GEODETIC POSITION: Lat. = 36°03'36.305"; Long. = 82°11'59.716" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Pig Pen Bluff	21°30'41.2"	201°28'58.4"	4,077 255	7.4
Unaka	136 11 21.7	316 08 12.1	4,065 352	7.2

GRID POSITION (Tennessee Lambert): X = 3,122,951.0; Y = 628,997.3 (G-3)

BAKERSVILLE NO. 10 (USGS, 1934; Mitchell County, North Carolina)

Located 3.3 miles northeast of Bakersville, about 1 mile south of Glen Ayre, on a wooded top 10 feet southeast of fence, on highest point of ridge. Station is drill hole in rock directly under 20 inch maple tree.

GEODETIC POSITION: Lat. = 36°03'03.15"; Long. = 82°07'11.26" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Pig Pen Bluff	49°00'46.00"	228°56'13.68"	4,1869 011	9.6
Yellow	322 07 40.92	142 09 49.03	3,9488 780	5.5

ELEVATION: 4169 feet (G-5)

BAKERSVILLE NO. 11 (USGS, 1934; Mitchell-Avery County, North Carolina)

Located about 6 miles northeast of Bakersville and 2 1/2 mile east of Glen Ayre, on highest point of top locally known as Little Yellow Mountain. Station is drill hole in rock.

GEODETIC POSITION: Lat. = 36°03'55.13"; Long. = 82°04'08.09" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Roan High Knob	131°59'10.47"	311°57'16.81"	3,8124 902	4.0
Hump	211 42 04.74	31 44 05.55	3,9892 088	6.1
Sugar	249 11 14.11	69 18 02.91	4,2686 684	11.5

ELEVATION: 5504 feet (G-5)

BAKERSVILLE NO. 13 (USGS, 1934; Avery County, North Carolina)

Located about 3/4 mile south of Frank, North Carolina. Station is drill hole in rock near 12 inch oak tree on extreme north end of highest ridge.

GEODETIC POSITION: Lat. = 36°03'22.70"; Long. = 82°00'26.62" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Yellow	31°32'42.53"	211°30'52.69"	3,9515 056	5.6
Hump	177 28 15.68	357 28 06.00	3,9686 460	5.8

ELEVATION: 3711 feet (G-5)

BAKERSVILLE NO. 14 (USGS, 1934; Mitchell County, North Carolina)

Located 0.9 mile southwest of Red Hill, on top of ridge and about 200 feet north of road crossing on top of ridge. Station is a drill hole in buried rock.

GEODETIC POSITION: Lat. = 36°01'27.749"; Long. = 82°14'21.005" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Pig Pen Bluff	6°41'57.9"	186°41'38.2"	3,897 495	4.5
Bakersville #9	221 44 29.0	41 45 52.2	3,725 192	3.3
Wilson's Knob	291 54 08.5	111 58 07.6	4,042 918	6.9
Woody's Knob	322 49 29.0	142 54 12.2	4,303 721	12.5

GRID POSITION (North Carolina Lambert): X = 1,042,292.4; Y = 843,375.0 (G-3)

GRID POSITION (Tennessee Lambert): X = 3,111,858.3; Y = 615,559.9 (G-3)

ELEVATION: 2592 feet (T-5)

BAKERSVILLE NO. 21 (USGS, 1934; Mitchell County, North Carolina)

Located on partially open top about 0.6 mile north of top locally known as Loggy Knob and about 3 miles west and north of Buladean. To reach from Red Hill Store drive north on Highway 19 0.2 mile, turn right and go 3.8 miles, turn left up Bean Creek. Follow up creek as far as possible with car, then walk along road up to headwaters of said creek to house. From house follow trail westerly to Elkswallow; thence along ridge to first top and station. Station mark is chiseled triangle in rock with 1 inch drill hole in the center, 60 feet south of top and on east side of old rail fence running north and south.

GEODETIC POSITION: Lat. = 36°07'19.570"; Long. = 82°14'54.476" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Peters	55°03'10.2"	235°00'37.9"	3,897 047	4.9
Bauty	85 26 59.0	265 24 00.0	3,881 622	4.7

GRID POSITION (Tennessee Lambert): X = 3,107,747.6; Y = 651,003.0 (G-3)

BAKERSVILLE NO. 23 (USGS, 1934; Carter County, Tennessee)

Located 4.5 miles northeast of Shell Creek Post Office, 1/4 mile S23°W of Laurel Fork School house on bare knoll, 120 feet S48°W of fence corner. The Station is drill hole in planted rock under 12 inch dead locust tree.

GEODETIC POSITION: Lat. = 36°12'06.73"; Long. = 82°00'09.27" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Hump	07°01'42.50"	187°01'22.55"	3,8392 658	4.3
Sugar	306 57 44.81	127 02 13.37	4,1636 293	8.9

- GRID POSITION (North Carolina Lambert): X = 1,114,176.4; Y = 905,759.7 (G-3)
ELEVATION: 3708 feet (G-5)
- BM 1945.6** (USGS, 1934; Carter County, Tennessee)
Located 3.5 miles south of Hampton, 13 feet east of centerline of U.S. Highway 19 East, 30 feet east of east bank of Tiger Creek, at road intersection and bridge, on rock ledge. Station is a square cut, painted "B.M. 1945.6".
ELEVATION: 1,944.54 feet (G-3)
- BM 2166.2** (USGS, 1934; Yancey County, North Carolina)
Located 0.2 mile northeast of Dayton Bend School, where Brush Creek empties into Toe River on north pier of bridge over Brush Creek. Station is a chiseled square with cross in center, painted erroneously "USRM 2166.2" in east end of pier.
ELEVATION: 2168.69 feet (G-3)
- BM 2185.7** (USGS, 1934; Yancey County, North Carolina)
Located 0.2 mile east of Forbes, on concrete highway bridge over Toe River, 29 feet south of center of bridge. Station is a chiseled square, painted white, painted erroneously "BM 2185.7" in west curb.
ELEVATION: 2188.24 feet (G-3)
- BM 2372.2** (USGS, 1934; Mitchell County, North Carolina)
Located 2.1 miles west of Bakersville, 60 feet southeast of front entrance to George's Cash Store, on southwest concrete wing wall of concrete bridge. Station is a chiseled square, painted "USRM 2372.2".
ELEVATION: 2372.49 feet (G-3)
- BM 2459.6** (USGS, 1934; Mitchell County, North Carolina)
Located about 100 feet south of street intersection, at Bakersville, on northwest corner of north concrete abutment of bridge over Cane Creek. Station is a chiseled square, painted "USRM 2459.6".
ELEVATION: 2459.78 feet (G-3)
- BM 2534.7** (USGS, 1934; Carter County, Tennessee)
Located 5.4 miles northwest of Backwoods, 310 feet northeast of road intersection, 45 feet east of east edge of road. Station is a square cut on boulder stamped "BM 2534.7".
ELEVATION: 2534.76 feet (G-3)
- BM 2645.2** (USGS, 1934; Carter County, Tennessee)
Located 2.0 miles south of Roan Mountain, 115 feet north of intersection of Cloudland Highway and Smith Branch Road, 22 feet west of centerline of highway, and 4.5 feet above surface of road. Station is a square cut on rock ledge painted "BM 2645.2".
ELEVATION: 2645.27 feet (G-3)
- BM 2618.2** (USGS, 1934; Carter County, Tennessee)
Located 2.8 miles south of Roan Mountain, 33 feet northeast of southeast abutment of wooden bridge over Hampton Creek, and on north bank of creek. Station is a square cut on rock ledge, painted "BM 2618.2".
ELEVATION: 2618.26 feet (G-3)
- BM 2872.3** (USGS, 1934; Carter County, Tennessee)
Located 3.4 miles west of Backwoods, 150 feet northeast of bridge, 50 feet east of east edge of road, on west bank of Tiger Creek. Station is a square cut on rock outcrop.
ELEVATION: 2872.38 feet (G-3)
- BM 2933.2** (USGS, 1934; Carter County, Tennessee)
Located 0.9 mile north of Burbank, 5.0 miles southwest of Roan Mountain, and 45 feet east of center of Cloudland Highway. Station is a square cut on rock outcrop, stamped "BM 2933.2".
ELEVATION: 2933.28 feet (G-3)
- BM 2973.4** (USGS, 1934; Avery County, North Carolina)
Located at Roaring Creek (Senia) 300 feet northwest of concrete highway bridge, 40 feet north of north bank of Roaring Creek, on white flint rock. Station is a chiseled square, painted "BM 2973.4".
ELEVATION: 2972.82 feet (G-3)
- BM 2994.8** (USGS, 1934; Carter County, Tennessee)
Located 1.3 miles southwest of Crabtree, at George Creek, 50 feet east of road intersection, and 8 feet north of north edge of road. Station is a square cut on boulder.
ELEVATION: 2994.82 feet (G-3)
- BM 3065.9** (USGS, 1934; Unicoi County, Tennessee)
Located 3.0 miles southeast of Limestone Cove, 40 feet south of small stream crossing, 80 feet west of cabin, and 30 feet southeast of road. Station is a chiseled circle on boulder, stamped "BM 3065.9".
ELEVATION: 3065.91 feet (G-3)
- BM 3094.8** (USGS, 1934; Avery County, North Carolina)
Located 1.0 mile southeast of Valley, 1.1 miles northwest of Senia, (Roaring Creek), 115 feet north of intersection of Fall Branch and Roaring Creek, 20 feet east of east bank of Fall Branch. Station is a square cut, painted "BM 3094.8" on rock outcrop.
ELEVATION: 3094.36 feet (G-3)
- BM 3097.0** (USGS, 1934; Carter County, Tennessee)
Located 2.6 miles west of Backwoods, 10 feet north of north edge of road, on rock ledge. Station is a square cut on rock ledge.
ELEVATION: 3097.03 feet (G-3)
- BM 3161.2** (USGS, 1934; Carter County, Tennessee)
Located 0.8 mile west of Burbank, at east end of gate of west entrance to residence south of road, 10 feet south of center of road. Station is a chiseled square on highest point of boulder.
ELEVATION: 3161.25 feet (G-3)
- BM 3264.4** (USGS, 1934; Mitchell County, North Carolina)
Located 3.1 miles northwest of Buladean, on northwest corner of north end of concrete culvert over small drain. Station is a chiseled square, painted "USRM 3264.4".
ELEVATION: 3264.67 feet (G-3)
- BM 3264.4** (USGS, 1934; Mitchell County, North Carolina)
Located 3.1 miles northwest of Buladean, on northwest corner of north end of concrete culvert over small drain. Station is a chiseled square, painted "USRM 3264.4".
ELEVATION: 3264.67 feet (G-3)
- BM 3272.8** (USGS, 1934; Carter County, Tennessee)
Located 1.8 miles southwest of Crabtree, 35 feet east of road intersection and 8 feet north of centerline of road. Station is a square cut on rock ledge.
ELEVATION: 3272.86 feet (G-3)
- BM 3566.9** (USGS, 1934; Carter County, Tennessee)
Located 5.0 miles south of Roan Mountain, 80 feet east of centerline of trail. Station is a square cut on rock outcrop.
ELEVATION: 3566.98 feet (G-3)
- BM 3888.8** (USGS, 1934; Carter County, Tennessee)
Located 2.3 miles south of Burbank, 0.4 mile south of a toll gate, 20 feet east of road. Station is a chiseled square on east corner of rock ledge.
ELEVATION: 3888.88 feet (G-3)
- BM 4024.6** (USGS, 1934; Avery County, North Carolina)
Located 2.0 miles north of Valley, 115 feet west of stream crossing, and 50 feet north of north edge of road. Station is a square cut, painted "BM 4024.6".
ELEVATION: 4024.55 feet (G-3)
- BM 4478.3** (USGS, 1934; Carter County, Tennessee)
Located 2.4 miles north of Carvers Gap, 3.5 miles south of Burbank, at east edge of road, on southwest point of boulder. Station is a chiseled square in lower part of rock outcrop.
ELEVATION: 4478.30 feet (G-3)
- BM 4483.3** (USGS, 1934; Mitchell County, North Carolina)
Located 3.3 miles northeast of Glen Ayre, 50 feet northeast of gate across road at north edge of road. Station is a chiseled square, painted "USRM 4483.3" on top of rock.
ELEVATION: 4487.18 feet (G-3)
- BM 6029.7** (USGS, 1934; Mitchell County, North Carolina)
Located 1.1 miles west of Carvers Gap, on road to Roan High Knob, 10 feet southwest of trail intersection at point of sharp curve in road. Station is a chiseled square, painted "USRM 6029.7" on boulder.
ELEVATION: 6030.06 feet (G-3)
- C-12** (USC&GS, 1933; Carter County, Tennessee)
Located about 4.5 miles northwest along the East Tennessee & Western North Carolina Railroad from Roan Mountain, Carter County, at White Rock, about 55 feet southeast of milepost 21. In the top of a rock in the side of a cut, and 5 feet northeast of the centerline of the track. Station is a standard disk, stamped "C 12 1933".
ELEVATION: 2,366.314 feet or 721.254 meters (C-1)
- D 12** (USC&GS, 1933; Carter County, Tennessee)
Located about 2.4 miles northwest along the East Tennessee & Western North Carolina Railroad from Roan Mountain, Carter County, about 495 feet southeast of milepost 23, near a water tank, 12 feet northeast of the centerline of the track, and in the top of a rock ledge in the side of the mountain, 1 1/2 feet higher than the rail. Station is a standard disk, stamped "D 12 1933." (Cap reported missing in November 1960.)
ELEVATION: 2,509.893 feet or 765.017 meters (C-1)
- E 12** (USC&GS, 1933; Carter County, Tennessee)
Located at Roan Mountain, Carter County, about 495 feet east of the East Tennessee & Western North Carolina Railroad Station, 12 feet north of the centerline of the track, and in the top of a rock in the side of a cut, 2 feet higher than the rail. Station is a standard disk, stamped "E 12 1933".
ELEVATION: 2,574.834 feet or 784.911 meters (C-1)
- F 12** (USC&GS, 1933; Carter County, Tennessee)
Located about 1.8 miles east along the East Tennessee & Western North Carolina Railroad from Shell Creek, Carter County, near Evergreen about 395 feet west of milepost 29, about 325 feet east of the east end of a trestle, 9 feet south of the centerline of the track, and in the side of the rock wall of a cut, 4 feet higher than the rail. Station is a standard disk, stamped "F 12 1933" and set vertically.
ELEVATION: 2,885.618 feet or 879.538 meters (C-1)
- FH 1** (USGS, 1934; Carter County, Tennessee)
Located 3.0 miles northeast of Shell Creek, 110 feet south of old crossroads, 38 feet west of center of old road south, 3.5 feet northwest of 12 inch chestnut tree painted "USBM 3439". A standard USGS tablet stamped "3439 FH 1 1934" and set in top of small boulder.
ELEVATION: 3438.78 feet (G-3)
- FH 2** (USGS, 1934; Carter County, Tennessee)
Located 6.4 miles northeast of Shell Creek, 19 feet southwest of center of Walnut Mountain Road. Station is a standard USGS tablet stamped "3659 FH 2 1934" and set in rock outcrop.
Reference Mark is 240 feet northwest of tablet, 18 feet north of center of road, on rock outcrop; chiseled square 8.72 feet lower than tablet.
ELEVATION: 3658.95 feet (G-3)
- FH 3** (USGS, 1934; Carter County, Tennessee)
Located 200 feet northeast of old Olemville Post Office, 17 feet west of center of Walnut Mountain Road. Station is a standard USGS tablet stamped "3506 FH 1934" and set in top of concrete post, projecting 4 inches above ground.
Reference Mark is 40 feet south of tablet, at west end of road, in northwest root of a 10 inch apple tree; copper nail and washer 3.22 feet lower than tablet.
ELEVATION: 3506.32 feet (G-3)
- FH 7** (USGS, 1934; Carter County, Tennessee)
Located 3.8 miles northwest of Olemville by trail, 150 feet south of falls in stream, 10 feet east of center of Laurel Fork. Station is a standard tablet

stamped "2978 FH 7 1934" and set in rock outcrop.
ELEVATION: 2977.81 feet (G-3)

FORK RIDGE (USGS, 1934; Carter County, Tennessee)
Located near Tennessee-North Carolina State Line, south 0.2 mile more or less from Tiger Creek, on top of ridge at edge of woods. Station is a standard Forest Service concrete post.

GEODETIC POSITION: Lat. = 36°08'35.796"; Long. = 82°10'57.913 (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Erwin #30	42°53'04.6"	222°50'37.6"	3,962 273	5.7
Unaka	84°59'20.0"	264°55'33.8"	3,983 582	6.0
Unaka F.S.	86°59'03.8"	266°55'01.8"	4,011 807	6.4
Fork	182°50'40.3"	2°50'54.6"	4,082 941	7.5

GRID POSITION (Tennessee Lambert): X = 3,126,840.6; Y = 659,455.2 (G-3)
ELEVATION: 4254 feet (G-5)

GL 1 (A) (USGS, 1934; Carter County, Tennessee)
Located 0.8 mile south of Crabtree, 55 feet south of road intersection, and 20 feet west of west bank of George Creek. Station is a standard USGS tablet stamped "GL 1 1934 2690" and set on rock outcrop.
ELEVATION: 2689.41 feet (G-3)

GL 1 (B) (USGS, 1934; Avery County, North Carolina)
Located 0.9 mile north of post office at Frank, 22 feet east of center line of North Carolina Highway 69, 18 feet north of Devils Race Branch, 16 feet north of northeast wingwall of highway bridge. Station is a standard tablet stamped "GL 1 1934 3097" set in large boulder, projecting 3 feet above the ground.

Reference Mark 1 is 400 feet S10°W of tablet, on northeast headwall of concrete culvert; chiseled square 20.40 feet lower than tablet.
ELEVATION: 3096.92 feet (G-3)

GL 2 (USGS, 1934; Carter County, Tennessee)
Located 1.7 miles northeast of Backwoods, 150 feet west of small stream and road intersection, 200 feet west of mills of T.A. Arnett. A standard USGS tablet stamped "GL 2 1934 2520" and set on rock outcrop.
Reference Mark is 0.1 mile north of tablet, 75 feet west of road intersection, 30 feet northeast of north edge of road, on boulder; square cut 2.99 feet higher than tablet.
ELEVATION: 3519.72 feet (G-3)

GL 3 (A) (USGS, 1934; Carter County, Tennessee)
Located 1.5 miles west of Backwoods, 75 feet southeast of road intersection, 22 feet south of south edge of road. Station is a standard USGS tablet stamped "GL 3 1934 3332" and set in concrete post, projecting 6 inches above ground.

NOTE: Searched for but not found, believed covered by about 4 feet of dirt when road widened.
Reference Mark is N40°E 155 feet from tablet, 110 feet north of north edge of road, 25 feet south of south bank of Tiger Creek, on boulder; square cut 2.56 feet lower than tablet.
ELEVATION: 3331.01 feet (G-3)

GL 3 (B) (USGS, 1934; Mitchell County, North Carolina)
Located 4.2 miles northeast of Glen Ayre, Grassy Ridge, 3.7 miles west of Valley Post Office, 150 feet northeast of road and trail intersection, 20 feet west of north-south fence line. Station is a standard tablet stamped "GL 3 1934" painted "4852.5" set in rock outcrop. Cap reported gone in 1960. Imprint and stem of cap, OK.
Report on Condition: (TVA, Aug. 1960): Cap gone, imprint and stem of cap found OK.

Reference Mark is 25 feet southeast of tablet, in root on northwest side of small maple tree; copper nail and washer 1.16 feet lower than tablet.
ELEVATION: 4852.78 feet (G-3)

GL 4 (A) (USGS, 1934; Carter County, Tennessee)
Located 4.5 miles northwest of Backwoods, 115 feet northeast of northeast corner of Tiger Creek School, 20 feet east of east edge of road. A standard tablet stamped "GL 4 1934 2638" and set on large rock outcrop.
ELEVATION: 2637.53 feet (G-3)

GL 4 (B) (USGS, 1934; Avery County, North Carolina)
Located 0.5 miles south of Senia, (Roaring Creek), 2.7 miles northeast of Plumtree, 30 feet west of road intersection, on north end of west abutment of concrete highway bridge over Toe River. Station is a standard tablet stamped "GL 4 1934 2947".
ELEVATION: 2946.80 feet (G-3)

GL 5 (USGS, 1934; Avery County, North Carolina)
Located at Yellow Mountain Gap, 3.5 miles north of Valley Post Office, 6.6 miles south of Roan Mountain, Tennessee, 300 feet west of property corner and gate, 20 feet south of fence. Station is a standard USGS tablet stamped "GL 5 1934 4681", painted "USBM 4680.6."
Reference Mark is 595 feet southeast of tablet, 20 feet east of east edge of trail, on boulder; square cut 3.32 feet lower than tablet.
ELEVATION: 4681.32 feet (G-3)

GL 8 (USGS, 1934; Carter County, Tennessee)
Located 3.2 miles south of Roan Mountain, 800 feet northwest of road intersection, 75 feet north of centerline and 7 feet above surface of Cloudland Highway. Station is a standard USGS tablet stamped "GL 8 1934 2736" and set on rock ledge.
Reference Mark is 60 feet east of tablet, 60 feet north of center of Cloudland Highway, on rock outcrop; square cut 1.99 feet lower than tablet.
ELEVATION: 2735.94 feet (G-3)

HMI 58 (TVA, 1937; Carter County, Tennessee)
Located 1300 feet north to northwest corner of field, and 30 feet north and west of woods. To reach, drive southeast from Hampton on Highway 19-E, 7.4 miles; turn left on gravel road; proceed 0.5 mile to house; then proceed on foot 1200 feet along trail on left bank of stream to railroad; travel 1400 feet along railroad in northerly direction; turn left on trail at hollow to house. Station is a 1 inch angle iron stamped TVA HMI 58.

Reference Mark 1 is S80°W, 34.9 feet to 6 inch pine.
Reference Mark 2 is N64°W, 26.9 feet to 4 inch white oak.
Reference Mark 3 is N16°W, 26.2 feet to 4 inch maple.
GRID POSITION (Tennessee Lambert): X = 3,133,188; Y = 696,519 (T-4)
ELEVATION: 2589 feet (T-5)

HMI 60 (TVA, 1937; Carter County, Tennessee)
Located about 70 feet down north slope of peak from top. To reach, drive southeast along Highway 19E from Hampton about 9.1 miles to point at foot bridge above ford across Doe River (in low water ford river) and proceed along White Rock Tower road to last house in clearing about 0.6 mile. Proceed on foot to White Rock Tower 1 mile. Then follow trail in southeast direction 2000 feet to fork of trail. Take left trail in northeast direction along ridge 2000 feet to top of peak. Station is a 1 inch angle iron stamped "TVA HMI 60."
Reference Mark 1 is S14°E, 12.7 feet to 4 inch Spanish Oak.
Reference Mark 2 is S 81°W, 5.8 feet to 3 inch Spanish Oak.
Reference Mark 3 is S 88°E, 12.6 feet to 12 inch chestnut oak.
GRID POSITION (Tennessee Lambert): X = 3,146,181.1; Y = 695,756.4 (T-4)
ELEVATION: 3957 feet (T-5)

HMI 73 (TVA, 1937; Carter County, Tennessee)
Located 0.5 feet above ground. To reach from Hampton, Tennessee, drive southeast 3.3 miles on Highway 19 East to T-road intersection. Turn right on gravel road and proceed 1.3 miles to T-road intersection. Turn left on farm road and proceed about 1000 feet to barn. Then proceed on foot up trail up hill and along west edge of woods to wooden bar gate. Angle iron is about 100 feet downhill about 5 feet from fence going to left of pine grove. Station is a 1 inch angle iron stamped "TVA HMI 73."
Reference Mark 1 is N37°W, 6.2 feet to 1 inch pine.
Reference Mark 2 is S55°E, 6.2 feet to fence post.
Reference Mark 3 is S26°W, 7.6 feet to fence post.
GRID POSITION (Tennessee Lambert): X = 3,119,313; Y = 691,894 (T-4)
ELEVATION: 2648 feet (T-5)

HUMP (USGS, 1934; Avery County, North Carolina)
Located 2.2 miles southwest, on highest point of Hump Mountain, near east end of flat summit. Station is a drill hole in triangle chiseled on boulder set in ground.

NOTE: Not to be confused with Forest Service Station HUMP 3 on same top, 119.5 feet northwest of USGS station.
GEODETIC POSITION: Lat. = 36°08'24.337"; Long. = 82°00'43.082" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Roan High Knob	68°21'40.6"	248°17'46.0"	4,029,756	6.7
Fork	130°10'46.3"	310°04'57.4"	4,285,662	12.0
White Rock F.T.	138°09'42.5"	318°05'50.5"	4,167,500	9.1
Grandfather	284°02'09.3"	104°08'51.4"	4,244,671	10.9
Jonas	332°58'29.6"	153°02'29.3"	4,351,554	14.0

ELEVATION: 5587 feet (G-5)

HUMP 3 (US Dept. of Agriculture; 1933; Avery County, North Carolina)
Located 120 feet from USGS Triangulation Station HUMP. A USDA Forest Service Triangulation Station brass tablet stamped "HUMP No. 3 1933, set in a rock boulder in place.
GEODETIC POSITION: Lat. = 36°08'25.39"; Long. = 82°00'43.72" (G-3)

1 JS 19 (N. CAR. HWY. DEPT., 1959; Mitchell County, North Carolina)
Located 10.8 miles from bridge over Toe River in Spruce Pine, near intersection of Truck Creek road and Highway 226, along Highway No. N.C. 226 to Bakersville, 48 feet west of edge of existing pavement, 5 feet east of northwest brick columns at entrance of Bakersville Baptist Cemetery. Station is 18.0 feet N60°E of 3- by 3-foot brick column, 15.2 feet S40°W of 4 inch pine, and 4.3 feet S50°E of 3- by 3-foot brick column. Station is a standard disk stamped "1 JS 19" and set in top of a concrete post.
GRID POSITION (North Carolina Lambert): X = 1,067,010.0; Y = 834,066.1 (HWY-3)
Grid Azimuth to 1 JS 18: 2282.19 feet, 18°00'50"
ELEVATION: 2687.31 feet (HWY-3)

1 JS 20 (N. CAR. HWY. DEPT., 1959; Mitchell County, North Carolina)
Located 11.7 miles from bridge over Toe River in Spruce Pine, 0.4 mile from courthouse in Bakersville, along Highway No. N.C. 226 to Bakersville, at edge of school yard at Bowman High School, approximately 15 feet northeast of cyclone fence, and 40 feet southwest of existing pavement edge. Station is 102.5 feet N45°W of northwest corner Bowman School building, 70.9 feet S45°W of concrete steps, and 13.6 feet N20°E of 6 inch walnut. Station is a standard disk stamped "1 JS 20" and set in top of concrete post, approximately 0.5 feet above ground.
GRID POSITION (North Carolina Lambert): X = 1,066,627.1; Y = 837,634.7 (HWY-3)
Grid Azimuth to 1 JS 21: 737.78 feet; 123°39'30"
ELEVATION: 2484.96 feet (HWY-3)

1 JS 21 (N. CAR. HWY. DEPT., 1959; Mitchell County, North Carolina)
Located 11.8 miles from bridge over Toe River in Spruce Pine, along Highway No. N.C. 226 to Bakersville, 33 feet from southwest edge of existing pavement, and 1.5 feet east of corner of Sinclair Service station. Station is 39.0 feet N70°W of power pole, and 21.0 feet north of 4 inch paulownia. Station is a standard disk stamped "1 JS 21" and set in a concrete post.
GRID POSITION (North Carolina): X = 1,066,013.0; Y = 838,043.6 (HWY-3)
Grid Azimuth to 1 JS 20: 737.78 feet; 303°39'30"
ELEVATION: 2471.07 feet (HWY-3)

1 JS 22 (N. CAR. HWY. DEPT., 1960; Mitchell County, North Carolina)
Located 12.45 miles from the bridge over Toe River in Spruce Pine, along North Carolina 226 to Bakersville. Station is 38.7 feet S63°E of northeast corner of frame garage. Station is a standard SHD disk stamped "1 JS 22" and set in a 6 inch square concrete post 7.8 feet S37°W of southwest edge of pavement.
GRID POSITION (North Carolina): X = 1,063,688.5; Y = 839,006.5 (HWY-3)
Grid Azimuth to 1 JS 23: 902.69 feet; 134°07'10"
ELEVATION: 2439.23 feet (HWY-3)

1 JS 23 (N. CAR. HWY. DEPT., 1960; Mitchell County, North Carolina)
Located 12.63 miles from the bridge over Toe River in Spruce Pine, along N.C. 226 to Bakersville, 16.49 feet N8°E of northeast edge pavement at bottom of road fill, on north side of N.C. 226 and 1 foot south of west end of wood fence. Station is 35.26 feet N66°W of wall, 33.3 feet N67°E of edge pavement. Station is a standard SCH disk stamped "1 JS 23" and set in a

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

Located 75 feet south of road intersection, Glen Ayre, 50 feet southeast of front entrance of Little Rock Creek Baptist Church. Station is a standard USGS tablet stamped "RPW 5 1934 3175", painted "USFBM 3178.1".

NOTE: Searched for, but not recovered. Believed covered by fill around church building.

Reference Mark is 60 feet northwest of tablet, on boulder; chiseled square 3.42 feet higher than tablet.

ELEVATION: 3178.57 feet (G-3)

RPW 7 (USGS, 1934; Mitchell County, North Carolina)

Located 1.5 miles northeast of Hawk, 90 feet southeast of intersection of T-road south, 40 feet northeast of T-road. Station is a standard tablet stamped "RPW 7 1934 3115", painted "USFBM 3114.8", in top of and about center of large boulder.

Reference Mark is 50 feet north of tablet, on southeast edge of rock ledge, chiseled square 1.52 feet lower than tablet.

ELEVATION: 3114.91 feet (G-3)

RPW 8 1934 3316 (USGS, 1934; Avery County, North Carolina)

Located 2.8 miles northwest of Spear, 2.8 miles northwest of Henson Creek, on southwest side of road. Station is a standard USGS tablet stamped "RPW 1934 3316", painted "USFBM 3316.3" and set in top of large boulder. ("8" was omitted from stamping.)

Reference Mark is 20 feet west of tablet, top of large boulder; chiseled square 0.60 foot lower than tablet.

ELEVATION: 3316.35 feet (G-3)

RPW 9 (USGS, 1934; Mitchell County, North Carolina)

Located 50 feet northwest of road intersection, at Carvers Gap, 40 feet west of road to Burbank. Station is a standard tablet stamped "RPW 9 1934 5512" painted "USFBM 5512.0" and set in flat rock.

Reference Mark is 12 feet north of tablet, on north corner of boulder; chiseled square 0.68 foot lower than tablet.

ELEVATION: 5512.38 feet (G-3)

RPW 10 (USGS, 1934; Mitchell County, North Carolina)

Located 2.5 miles northeast of Buladean, 1.8 miles west of Hughes Gap, 70 feet northeast of intersection of T-road north, 75 feet northeast of small stream crossing, and 60 feet north of road. Station is a standard USGS tablet stamped "RPW 10 1934", painted "USFBM 3204.4" set in top of boulder.

Reference Mark is 75 feet east and 10 feet south of tablet, on top of boulder; chiseled square 0.26 feet lower than tablet.

ELEVATION: 3204.88 feet (G-3)

RPW 11 (USGS, 1934; Mitchell-Union Counties, North Carolina-Tennessee)

Located 4.3 miles northwest of Buladean, at Iron Mountain Gap, 4.4 miles southeast of Limestone Cove, 40 feet southwest of road, 10 feet west of T-road south, on North Carolina-Tennessee State Line. Station is a standard USGS tablet stamped "RPW 11 1934 3723", painted "USFBM 3723.0" and set in top of concrete post.

Reference Mark is 50 feet northwest of tablet in root on northeast side of 14 inch apple tree, copper nail and washer 5.27 feet lower than tablet.

GEODETIC POSITION: Lat. = 36°08'34.302"; Long. = 82°14'00.209" (G-3)

GRID POSITION (Tennessee Lambert): X = 3,111,905.7; Y = 658,725.1 (G-3)

ELEVATION: 3723.31 feet (G-3)

STONE MOUNTAIN (USGS, 1934; Carter County, Tennessee)

Located on a top of Stone Mountain 4.5 miles southwest of Hampton, about 3/4 miles North 20° West from Pine Grove School, clearing required to north and west. Signal is a flag in top of Oak tree. Station is unstamped tablet 7.5 feet 881°W from point under signal, about 1 foot below highest point of rock.

NOTE: Values given below are for Stone Mountain Original Signal - not the actual station.

GEODETIC POSITION: Lat. = 36°14'05.919"; Long. = 82°14'21.194" (G-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Gap Run	176°22'51.8"	356°22'46.9"	3,515.613	2.0
Fork	251°20'43.6"	71°22'58.1"	3,777.463	3.7

GRID POSITION (Tennessee): X = 3,108,897.6; Y = 692,167.0 (G-3)

USFS 243 (USFS, 1933; Carter County, Tennessee)

Located 0.7 mile south of Simley Store, in Tiger Valley, 30 feet south of road. Station is a US Forest Service tablet stamped "243 1933" and set in top of boulder.

Report on Condition (TVA, 1960): Station recovered but cap is missing.

ELEVATION: 2071.21 feet (G-3)

WHITE ROCK FIRE TOWER (USFS, 1934; Carter County, Tennessee)

Located centerline of lookout tower on White Rock Mountain.

GEODETIC POSITION: Lat. = 36°14'19.635"; Long. = 82°07'15.926" (G-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Road High Bluff	7°48'04.3"	187°47'12.0"	4,212.737	10.2
Unaka	52°57'03.7"	232°51'06.1"	4,278.132	11.8
Fork	106°48'38.6"	286°46'41.6"	3,712.824	3.2

GRID POSITION (Tennessee): X = 3,143,656.3; Y = 694,912.3 (G-3)

WM 48 (TVA, 1938; Yancey County, North Carolina)

Located at Forbes, North Carolina. To reach from south end of Toe River branch at Forbes, walk up nose of ridge 1500 feet in southeasterly direction to intersection of fences near top of knoll. Point is under 18 inch oak and 4 feet northwest of fence corner. Station is a 1" x 1" angle iron stamped "TVA WM 48 1938".

GRID POSITION (Tennessee Lambert): X = 3,115,230.1; Y = 610,570.5 (T-4)

ELEVATION: 2531 feet (T-5)