

TENNESSEE VALLEY AUTHORITY  
DIVISION OF WATER CONTROL PLANNING  
MAPS AND SURVEYS BRANCH

# SURVEY CONTROL DATA

## WAYAH BALD, NORTH CAROLINA QUADRANGLE 159

EXTENT OF QUADRANGLE

LATITUDE: 35°00' TO 35°15'  
LONGITUDE: 83°30' TO 83°45'

BULLETIN TVA-MS-159-C

PRICE \$1.00

CHATTANOOGA, TENNESSEE  
SEPTEMBER 1968

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## SURVEY CONTROL DATA IN QUADRANGLE 159

**BM 1935.1** (USGS, 1934; Clay County, North Carolina)

Located 7.5 miles east of Hayesville, 180 feet southeast of T-road north, 200 feet southeast of Old Shooting Creek Church, 10 feet south of center line of U. S. Highway 64, and on southwest abutment of concrete highway bridge over Shooting Creek. A chiseled square painted "US 1935.1 BM".  
ELEVATION: 1936.41 feet (G-3)

**BM 2102.1** (USGS, 1934; Clay County, North Carolina)

Located 11.5 miles east of Hayesville, about 100 feet west of home of Sam Hogged (tourist home), about 1 mile east of the new Marshall Chapel, 28 feet north of small house, 14 feet southeast of center line of U. S. Highway 64. A chiseled square painted "US 2102.1 BM" on east end of concrete headwall.  
ELEVATION: 2103.22 feet (G-3)

**BM 2119.6** (USGS, 1934; Clay County, North Carolina)

Located 10.5 miles east of Hayesville, 0.2 mile west of Shooting Creek post office, 250 feet west of Robert Leadford's house, 12 feet north of center line of U. S. Highway 64, on west end of masonry headwall, about 150 feet southwest of Marshall Chapel (cinder block church), and on northwest corner of north masonry headwall. A chiseled square painted "US 2119.6 BM".  
Report on Condition (TVA, 1952): Chiseled square hard to identify.  
ELEVATION: 2120.74 feet (G-3)

**BM 2139.7** (USGS, 1934; Clay County, North Carolina)

Located 12.1 miles east of Hayesville, 15 feet north of center line of U. S. Highway 64, 30 feet northeast of center line of crossroads, about 2 miles northeast of Shooting Creek, on northeast corner of masonry headwall, and about 125 feet east of south one of two large rock boulders, which are in field across highway. A chiseled square painted "US 2139.7 BM".  
ELEVATION: 2140.72 feet (G-3)

**BM 3199.0** (USGS, 1934; Macon County, North Carolina)

Located 1.3 miles east of Wallace Gap, on U. S. Highway 64, at Big Horseshoe Bend, 12 feet south of center line of highway, on east end of headwall of concrete culvert, about 150 feet southeast of center of hairpin curve in highway and across highway from two 12-inch sassafras trees, and on southeast corner of L-shaped concrete headwall for 18-inch corrugated iron pipe. A chiseled square painted "US 3199.0 BM".  
ELEVATION: 3199.96 feet (G-3)

**BM 3226.3** (USGS, 1934; Clay County, North Carolina)

Located 2.6 miles northwest of old CCC Camp No. F-12, on Buck Creek Road, 30 feet north of Y-road fork, about 5 feet south of base of rock cut, .3 mile southeast of Old Buck Creek Lodge, 41 feet southwest of west gate post and about same elevation as road. A chiseled square at base of ledge on boulder.  
ELEVATION: 3226.31 feet (G-3)

**BM 3420.1** (USGS, 1934; Macon County, North Carolina)

Located .75 mile northeast of Wallace Gap, on U. S. Highway 64, 12 feet west of center line of road, on south end of concrete headwall, on southeast corner of L-shaped concrete headwall for an 18-inch corrugated iron pipe, which is about 100 feet north of sharp curve and in a 20-foot dirt cut. A chiseled square painted "US 3420.1 BM".  
ELEVATION: 3421.07 feet (G-3)

**BM 3605.7** (USGS, 1934; Macon County, North Carolina)

Located about .4 mile east of Junaluska Gap on old Morgan Cut road, at second spring branch east of gap, on top of northeast end of 10-foot rock ledge, about 4 feet above road elevation, about 13 feet southeast from center line road, 16 feet southwest of center of southeast end of 18-inch corrugated iron pipe, having rock headwall, about 35 feet northeast of lone 12-inch crooked locust standing on top of road cut on south side of road. A chiseled square on top of rock outcrop.  
ELEVATION: 3605.74 feet (G-3)

**BM 3712.8** (USGS, 1934; Macon County, North Carolina)

Located 0.8 mile northeast of Kilby Gap, on east edge of creek, and on lower portion of large boulder. A chiseled square.  
ELEVATION: 3712.84 feet (G-3)

**COPPER** (USGS, 1934; Macon County, North Carolina)

Located on summit of Copper Ridge Bald (shown on Forest Service maps as Black Bald), a point in the Nantahala Mountains, and is about 1.25 airline miles north of Burningtown Gap, being the second top north of the gap. A public road leads from the village of Kyle to Burningtown Gap, where a Forest Service trail leads north and passes along the west side of the mountain and directly under the summit. The summit is clear and affords a good view in all directions. A standard tablet stamped "COPPER 1934" and set in rough granite stone directly under signal.

Reference Mark 1: Chiseled arrow in rock pointing to station, 13.6 feet northeast of station.

Reference Mark 2: Chiseled cross on rock 13.8 feet southeast of station.

Reference Mark 3: Chiseled cross on rock 9.6 feet southwest of station.

GEODETIC POSITION: Lat. = 35°14'10.428"; Long. = 83°33'35.011" (G-3)

To Station	Geodetic Azimuths	Distance	
	Azimuth	Back Azimuth	Log Meters Miles
Wayah	0°55'46.3"	180°55'44.0"	3.793843 3.9
Tatham	96°17'47.9"	276°09'38.6"	4.333679 13.4
Cheeah	131°57'02.7"	311°52'50.6"	4.170943 9.2

GRID POSITION (North Carolina): X = 638,913.4; Y = 572,151.8 (G-3)

ELEVATION: 5256 feet (T-5)

**CORUNDUM 1** (USGS, 1934; Macon County, North Carolina)

Located in Nantahala National Forest 6 miles from Kyle (northeast) and 9 miles southeast of Almond, on peak known as Copper Knob. Station is 75 feet southwest of crest of peak. To reach from Franklin, drive 2.9 miles on State Highway 286 to Burningtown Road. Turn left onto Burningtown Road and drive 2 miles to Moody Farm. Turn left and keep main road to right 3.8 miles to junction of Burningtown and Younce Creeks. Turn left and drive up Younce Creek to Daves Creek, turn right, crossing both streams, drive up Daves Creek as far as possible. Walk to head of Daves Creek, trail leads out onto main ridge. Turn left on ridge and walk 0.5 mile to station. Station is drill hole in rock set in place under signal in 18-inch triangle blazed pine tree.

GEODETIC POSITION: Lat. = 35°14'54.223"; Long. = 83°30'34.999" (G-3)

To Station	Geodetic Azimuths	Distances	
	Azimuth	Back Azimuth	Log Meters Miles
Wayah	31°35'52.3"	211°34'06.2"	3.948693 5.5
Copper	73°29'50.3"	253°28'06.4"	3.676439 2.9
Wesser Bald	117°14'26.6"	297°12'05.9"	3.840652 4.3

GRID POSITION (North Carolina): X = 654,030.2; Y = 575,892.8 (G-3)  
ELEVATION: 3723 feet (T-5)

**CORUNDUM 3** (USGS, 1934; Graham-Cherokee Counties, North Carolina)

Located about 1.5 miles west of Topton and 6 miles northeast of Andrews, in Nantahala National Forest on Graham-Cherokee County line. Station is on peak of wooded top. To reach from Topton Depot, drive toward Bryson City 0.3 mile, turn left on the Robbinsville road and proceed 0.4 mile. Leave car and take government trail west 1.5 miles to station. Station is drill hole in rock set in place under signal in 30-inch oak tree.

GEODETIC POSITION: Lat. = 35°14'52.083"; Long. = 83°43'47.449" (G-3)

To Station	Geodetic Azimuths	Distances	
	Azimuth	Back Azimuth	Log Meters Miles
Peachtree	42°47'15.3"	222°42'35.3"	4.257933 11.3
Tatham	100°04'46.7"	280°02'30.8"	3.781257 3.8
Cheeah	207°16'31.4"	27°18'13.0"	3.986690 6.0

GRID POSITION (North Carolina): X = 588,370.0; Y = 578,734.1 (G-3)

ELEVATION: 4416 feet (T-5)

**CORUNDUM 4** (USGS, 1934; Macon County, North Carolina)

Located about 7 miles southwest of Franklin. To reach from Franklin courthouse, go west on U. S. Highway 64 for 8.1 miles to side road at white church, turn right on side road (Dill's Creek Road) and drive about 100 feet across creek to road fork, turn left 1.3 miles to road fork, turn right 1/2 mile to home of J. L. Williamson. Leave car here, cross creek to home of Erny Beck, thence proceed up drain in northerly direction about 1/4 mile to top of knob. Station is a drill hole in boulder at base of 20-inch blazed pine tree.

GEODETIC POSITION: Lat. = 35°07'26.404"; Long. = 83°30'10.060" (G-3)

To Station	Geodetic Azimuths	Distances	
	Azimuth	Back Azimuth	Log Meters Miles
Wayah	139°43'38.8"	319°41'38.6"	3.912268 5.1
Tremont	223°30'42.4"	43°33'21.5"	4.006592 6.3
Fish Hawk	279°22'27.0"	99°29'02.5"	4.246741 11.0

GRID POSITION (North Carolina): X = 654,043.6; Y = 530,574.4 (G-3)

**CSR 7** (TVA, 1941; Clay County, North Carolina)

Located 4.5 miles southeast of Hayesville, on left bank of Shooting Creek, Embayment of Chatuge Lake, on property of TVA, 1.1 miles northeast of Ledford Cemetery, approximately 350 feet south from small cinder block building. Station is 5.4 feet northeast of 4-inch pine, 2.2 feet southwest of 3-inch pine, and 4.1 feet southeast of 4-inch pine. A standard TVA tablet stamped "CSR 7 1941" and set in concrete monument. Steel post with control marker sign set approximately 1 foot southeast of monument.

GRID POSITION (North Carolina): X = 578,698.6; Y = 492,025.8 (T-4)

Grid Azimuth to CSR 6 (distance 374.6 feet): 156°40'.

ELEVATION: 1933.5 feet (T-4)

**CSR 8** (TVA, 1941; Clay County, North Carolina)

Located 4.5 miles southeast of Hayesville, on right bank of Shooting Creek Embayment of Chatuge Lake, on property of TVA, in pasture approximately 50 feet northeast of turn in contour up draw. Station is 14.0 feet north of 10-inch walnut, 46.7 feet southwest of 24-inch black oak, and 68.5 feet southeast of 7-inch locust on fence line. A standard tablet stamped "CSR 8 1941" and set in concrete monument. Steel post with control marker sign set approximately 1 foot northwest of monument.

GRID POSITION (North Carolina): X = 580,605.5; Y = 496,786.4 (T-4)

Grid Azimuth to CSR 9 (distance 127.4 feet): 320°04'.

ELEVATION: 1931.4 feet (T-4)

**CSR 9** (TVA, 1941; Clay County, North Carolina)

Located 4.5 miles southeast of Hayesville, on left bank of Shooting Creek Embayment of Chatuge Lake, on property of TVA, and approximately 100 feet west of flat rounded ridge in sage field. Station is 34.4 feet west of 6-inch hickory, 55.6 feet northwest of 8-inch hickory, and 56.6 feet north of 8-inch red oak. A standard TVA tablet stamped "CSR 9 1941" and set in concrete monument. Steel post with control marker sign set approximately 1 foot southeast of monument.

GRID POSITION (North Carolina): X = 581,423.6; Y = 495,809.2 (T-4)

Grid Azimuth to CSR 8 (distance 127.4 feet): 140°04'.

ELEVATION: 1934.8 feet (T-4)

**CSR 10** (TVA, 1941; Clay County, North Carolina)

Located 5.7 miles southeast of Hayesville, on right bank of Shooting Creek Embayment of Chatuge Lake, on property of TVA, approximately 400 feet northwest of junction of Shooting and Needmore Creeks. Station is 20.4 feet southwest of 5-inch pine, 22.4 feet northwest of 3-inch triple dogwood, and 7.8 feet from 2-inch post oak. A standard TVA tablet stamped "CSR 10 1941" and set in concrete monument. Steel post with control marker sign set 1 foot east of monument.

GRID POSITION (North Carolina): X = 585,346.6; Y = 495,861.6 (T-4)

Grid Azimuth to CSR 11 (distance 251.1 feet): 81°13'.

ELEVATION: 1933.7 feet (T-4)

**CSR 11** (TVA, 1941; Clay County, North Carolina)

Located 5.7 miles northeast of Hayesville, on left bank of Shooting Creek Embayment of Chatuge Lake, near Needmore Branch, on property of TVA, about 200 feet due west of "CSR 10". Station is 10.0 feet southeast of 8-inch white oak, 14.2 feet east of 10-inch hickory, and 9.4 feet north of 12-inch striping white oak. A standard TVA tablet stamped "CSR 11 1941" and set in concrete monument. Steel post with control marker sign set approximately 1 foot west of monument.

GRID POSITION (North Carolina): X = 585,098.4; Y = 495,823.3 (T-4)

Grid Azimuth to CSR 10 (distance 251.1 feet): 261°13'.

ELEVATION: 1934.1 feet (T-4)

**2 EG 9** (NCHD, 1965; Clay County, North Carolina)

Located approximately 5.00 miles southeast of Hayesville on U. S. Highway 64. To reach station, proceed from Clay County courthouse in Hayesville 5.3 miles in an eastern direction along U. S. Highway 64 to SR 1300. Continue on U. S. Highway 64 for 0.30 miles to station on southeast side of road at a gravel fill approximately 150 feet northwest of Lake Chatuge. Station is 25.73 feet

S 35° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 9 1965" and set in the top of a concrete post, flush with ground.

Reference Mark 1: 187.58 feet N 30° W to TVA BM in a headwall.

Reference Mark 2: 141.81 feet S 23° E to railroad spike in 6-inch twin crabapple tree.

GRID POSITION (North Carolina): X = 583,249.0; Y = 498,033.2 (Hwy.-3)  
Grid Azimuth to Top of Mt. Pleasant Baptist Church steeple spire (distance about 0.4 mile): 148°51'00".

ELEVATION: 1938.832 feet (Hwy.-2)

#### 2 EG 10 (NCHD, 1965; Clay County, North Carolina)

Located approximately 5.85 mile southeast of Hayesville on U. S. Highway 64. To reach station, proceed from Clay County courthouse in Hayesville, 6.7 miles in an easterly direction along U. S. Highway 64 to SR 1331. Continue on U. S. Highway 64 for 0.08 mile to station on south side of road in the northeast corner of cemetery property about 200 feet west of Old Shooting Creek Baptist Church, near two large oaks. The station is 17.13 feet S 15° W of edge of pavement, and 72.57 feet Due East of southeast corner of grave marker. A standard NCSHC bronze disk stamped "2 EG 10 1965" and set in the top of a concrete post, flush with the ground.

Reference Mark 1: 12.88 feet S 67° E to railroad spike in 24-inch oak.

GRID POSITION (North Carolina): X = 588,123.2; Y = 496,352.7 (Hwy.-3)

Grid Azimuth to top center of cabin roof on Braastown Bald Mountain Lookout Tower, Georgia (distance about 13.8 miles): 67°00'30".

ELEVATION: 1951.932 feet (Hwy.-2)

#### 2 EG 11 (NCHD, 1965; Clay County, North Carolina)

Located about 8 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from the Clay County courthouse in Hayesville, 7.9 miles in an easterly direction along U. S. Highway 64 to SR 1161. Continue on U. S. Highway 64 for 0.68 mile to station on south side of road in a small apple orchard. The station is 11.40 feet S 05° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 11 1965" and set in the top of a concrete post, flush with the ground.

Reference Mark 1: 48.16 feet Due East to nail in 12-inch apple tree.

Reference Mark 2: 35.92 feet S 40° W to railroad spike in 12-inch apple tree.

GRID POSITION (North Carolina): X = 595,159.9; Y = 495,304.8 (Hwy.-3)

Grid Azimuth to 2 EG 12 (distance 997.4 feet): 260°39'00".

ELEVATION: 2003.319 feet (Hwy.-2)

#### 2 EG 12 (NCHD, 1965; Clay County, North Carolina)

Located about 8.5 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from the Clay County courthouse in Hayesville, 7.9 miles along U. S. Highway 64 in an easterly direction to SR 1161. Continue on U. S. Highway 64 for 0.88 mile to station on the north side of road on top of bank, about 1500 feet west of SR 1162. Station is 12.38 feet N 10° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 12 1965" and set in the top of a concrete post, projecting 0.4 foot above the ground.

Reference Mark 1: 13.63 feet N 45° W to railroad spike in power pole.

Reference Mark 2: 9.20 feet S 78° W to nail in fence post.

GRID POSITION (North Carolina): X = 596,144.0; Y = 495,466.8 (Hwy.-3)

Grid Azimuth to 2 EG 11 (distance 997.4 feet): 80°39'00".

ELEVATION: 2013.437 feet (Hwy.-2)

#### 2 EG 13 (NCHD, 1965; Clay County, North Carolina)

Located about 9.0 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from the Clay County courthouse in Hayesville along U. S. Highway 64 in an easterly direction for 9.9 miles to SR 1168 at Shooting Creek. Continue on U. S. Highway 64 for 0.4 mile to station on north side of road near a 2-story frame store. Station is 15.42 feet N 5° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 13 1965" and set in the top of a concrete post, flush with the ground.

Reference Mark 1: 56.90 feet N 82° W to railroad spike in power pole.

Reference Mark 2: 57.28 feet Due East to center of west end of concrete island.

GRID POSITION (North Carolina): X = 602,392.8; Y = 495,920.0 (Hwy.-3)

Grid Azimuth to Top of Marshall Chapel Methodist Church steeple spire (distance about 0.2 mile): 268°45'00".

ELEVATION: 2048.853 feet (Hwy.-2)

#### 2 EG 14 (NCHD, 1965; Clay County, North Carolina)

Located about 10 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from the Clay County courthouse in Hayesville 11.00 miles in an easterly direction along U. S. Highway 64. The station is located in the northeast quadrant of the intersection of U. S. Highway 64 and SR 1168 between a small branch and SR 1168. The station is 9.7 feet N 25° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 14 1965" and set in the top of a concrete post, flush with the ground.

Reference Mark 1: 46.62 feet N 34° W to nail in twin willow.

Reference Mark 2: 8.82 feet S 78° E to chiseled square on headwall.

Reference Mark 3: 48.82 feet S 05° W to nail in 3-inch maple.

GRID POSITION (North Carolina): X = 607,284.8; Y = 497,672.1 (Hwy.-3)

Grid Azimuth to 2 EG 15 (distance 1054.5 feet): 249°34'20".

ELEVATION: 2075.503 feet (Hwy.-2)

#### 2 EG 15 (NCHD, 1965; Clay County, North Carolina)

Located about 10.5 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from the Clay County courthouse in Hayesville 11.0 miles in an easterly direction along U. S. Highway 64 to SR 1168. Continue on U. S. Highway 64 for 0.20 mile to station on the southeast side of the road. Station is 9.71 feet S 38° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 15 1965" and set in the top of a concrete post, flush with ground.

Reference Mark 1: 271.6 feet S 70° W to nail in telephone pole.

Reference Mark 2: 66.62 feet S 48° E to railroad spike in 24-inch maple.

GRID POSITION (North Carolina): X = 608,273.0; Y = 498,040.1 (Hwy.-3)

Grid Azimuth to 2 EG 14 (distance 1054.5 feet): 69°34'20".

ELEVATION: 2094.665 feet (Hwy.-2)

#### 2 EG 16 (NCHD, 1965; Clay County, North Carolina)

Located about 11.5 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from the Clay County courthouse in Hayesville 11.0 miles in an easterly direction along U. S. Highway 64 to SR 1168. Continue on U. S. Highway 64 for 0.77 mile to station on northwest side of road. The station is 750 feet N 52° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 16 1965" and set in the top of a concrete post, projecting 0.3 foot above the ground.

Reference Mark 1: 23.60 feet N 30° W to railroad spike in power pole.

Reference Mark 2: 41.16 feet S 70° E to nail in 24-inch maple.

GRID POSITION (North Carolina): X = 610,434.6; Y = 500,423.4 (Hwy.-3)

Grid Azimuth to 2 EG 17 (distance 1726.2 feet): 233°55'40".

ELEVATION: 2140.424 feet (Hwy.-2)

#### 2 EG 17 (NCHD, 1965; Clay County, North Carolina)

Located about 12 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from the Clay County courthouse in Hayesville 11.0 miles in an easterly direction along U. S. Highway 64 to SR 1168. Continue on U. S. Highway 64 for 1.10 miles to station on southeast side of road near the corner of a wire fence. The station is 10.92 feet S 50° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 17 1965" and set in the top of a concrete post, flush with the ground.

Reference Mark 1: 23.68 feet S 16° E to nail in 4-inch mimosa.

Reference Mark 2: 43.01 feet S 35° W to nail in 24-inch maple.

Reference Mark 3: 35.65 feet N 66° W to railroad spike in telephone pole.

GRID POSITION (North Carolina): X = 611,829.8; Y = 501,439.8 (Hwy.-3)

Grid Azimuth to 2 EG 16 (distance 1726.2 feet): 53°55'40".

ELEVATION: 2170.995 feet (Hwy.-2)

#### 2 EG 18 (NCHD, 1965; Clay County, North Carolina)

Located about 11.3 miles east of Hayesville and 3.8 miles northeast of Shooting Creek. To reach station, proceed from Clay County courthouse in Hayesville east along U. S. Highway 64 for 12.0 miles to SR 1173. Continue on U. S. Highway 64 for 2.78 miles to station on southwest side of highway near picnic area. The station is 52.63 feet S 28° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 18 1965" and set in the top of a concrete post, flush with the ground.

Reference Mark 1: 2.76 feet N 52° W to chiseled square on southwest corner of large rock.

Reference Mark 2: 35.02 feet S 80° E to chiseled cross on west corner of concrete platform for trash can.

GRID POSITION (North Carolina): X = 618,004.5; Y = 507,793.3 (Hwy.-3)

Grid Azimuth to apex of cabin roof on Braastown Bald Fire Tower (distance about 16.6 miles): 43°27'20".

ELEVATION: 3262.039 feet (Hwy.-2)

#### 2 EG 19 (NCHD, 1965; Clay County, North Carolina)

Located about 10.9 miles northeast of Hayesville and 4.0 miles northeast of Shooting Creek. To reach station, proceed from Clay County courthouse in Hayesville east along U. S. Highway 64 for 12.0 miles to SR 1173. Continue on U. S. Highway 64 for 4.03 miles to station on south side of road. The station is 0.20 mile north of Glade Gap and 11.58 feet S 44° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 19 1965" and set in the top of a concrete post, projecting 0.1 foot above the ground.

Reference Mark 1: 24.57 feet N 83° E to railroad spike in 8-inch maple.

Reference Mark 2: 20.60 feet S 31° E to nail in 5-inch maple.

GRID POSITION (North Carolina): X = 615,323.8; Y = 512,444.0 (Hwy.-3)

Grid Azimuth to 2 EG 20 (distance 720.5 feet): 206°52'20".

ELEVATION: 3610.141 feet (Hwy.-2)

#### 2 EG 20 (NCHD, 1965; Clay County, North Carolina)

Located about 10.9 miles northeast of Hayesville and 4.1 miles northeast of Shooting Creek. To reach station, proceed from Clay County courthouse in Hayesville east along U. S. Highway 64 for 12.0 miles to SR 1173. Continue on U. S. Highway 64 for 4.28 miles to station on northwest side of the road. The station is 0.35 mile northeast of Glade Gap and 10.51 feet N 55° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 20 1965" and set in the top of a concrete post, projecting 0.2 foot above the ground.

Reference Mark 1: 24.60 feet S 85° W to chiseled cross on rock.

Reference Mark 2: 23.98 feet N 27° W to railroad spike in root of a twin maple.

GRID POSITION (North Carolina): X = 615,649.4; Y = 513,086.6 (Hwy.-3)

Grid Azimuth to 2 EG 19 (distance 720.5 feet): 26°52'20".

ELEVATION: 3568.036 feet (Hwy.-2)

#### 2 EG 21 (NCHD, 1965; Clay County, North Carolina)

Located about 11.8 miles northeast of Hayesville and 5.0 miles northeast of Shooting Creek. To reach station, proceed from the Clay County courthouse in Hayesville east along U. S. Highway 64 for 12.0 miles to SR 1173. Continue on U. S. Highway 64 for 5.28 miles to station on the northeast side of highway and 26.34 feet N 34° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 21 1965" and set in the top of a concrete post, projecting 0.5 foot above the ground.

Reference Mark 1: 11.72 feet N 83° E to nail in 6-inch birch.

Reference Mark 2: 39.88 feet S 44° E to railroad spike in 8-inch birch.

GRID POSITION (North Carolina): X = 620,134.9; Y = 515,322.5 (Hwy.-3)

Grid Azimuth to 2 EG 22 (distance 516.3 feet): 351°32'20".

ELEVATION: 3336.951 feet (Hwy.-2)

#### 2 EG 22 (NCHD, 1965; Clay County, North Carolina)

Located about 11.8 miles northeast of Hayesville and 3.9 miles northeast of Shooting Creek. To reach station, proceed from Clay County courthouse in Hayesville east along U. S. Highway 64 for 12.0 miles to SR 1173. Continue on U. S. Highway 64 for 5.38 miles to station on southwest side of road opposite a small swamp. Station is 16.35 feet S 55° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 22 1965" and set in the top of a concrete post, projecting 0.3 feet above the ground.

Reference Mark 1: 85.67 feet N 19° E to railroad spike in 10-inch birch.

Reference Mark 2: 15.58 feet South to nail in 10-inch beech tree.

GRID POSITION (North Carolina): X = 620,210.8; Y = 514,811.8 (Hwy.-3)

Grid Azimuth to 2 EG 21 (distance 516.3 feet): 171°32'20".

ELEVATION: 3353.034 feet (Hwy.-2)

#### 2 EG 23 (NCHD, 1965; Clay County, North Carolina)

Located about 12.4 miles northeast of Hayesville and 5.1 miles northeast of Shooting Creek. To reach station, proceed from Clay County courthouse in Hayesville east along U. S. Highway 64 for 18.0 miles to National Forest Road. Continue on U. S. Highway 64 for 0.85 mile to station on northeast side of highway and 11.35 feet N 29° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 23 1965" and set in the top of a concrete post, projecting 0.2 foot above the ground.

Reference Mark 1: 29.98 feet N 32° E to railroad spike in 24-inch maple.  
 Reference Mark 2: 48.86 feet S 67° E to nail in 6-inch maple.  
 GRID POSITION (North Carolina): X = 623,677.8; Y = 512,002.6 (Hwy.-3)  
 Grid Azimuth to 2 EG 24 (distance 590.3 feet): 310°01'40".  
 ELEVATION: 3467.870 feet (Hwy.-2)

**2 EG 24** (NCHD, 1965; Clay County, North Carolina)  
 Located about 12.4 miles northeast of Hayesville and 5.0 miles northeast of Shooting Creek. To reach station, proceed from Clay County courthouse in Hayesville east along U. S. Highway 64 for 18.0 miles to National Forest Road. Continue on U. S. Highway 64 for 0.96 mile to station on southwest side of highway. The station is about 400 feet west of Buck Creek and 13.76 feet S 25° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 24 1965" and set in the top of a concrete post, projecting 0.2 foot above the ground.  
 Reference Mark 1: 5.74 feet S 30° W to railroad spike in 8-inch spruce pine.  
 Reference Mark 2: 20.84 feet N 70° W to nail in pine.  
 GRID POSITION (North Carolina): X = 624,129.8; Y = 511,622.9 (Hwy.-3)  
 Grid Azimuth to 2 EG 23 (distance 590.3 feet): 130°01'40".  
 ELEVATION: 3466.455 feet (Hwy.-2)

**2 EG 25** (NCHD, 1965; Clay County, North Carolina)  
 Located about 13.5 miles east of Hayesville on U. S. Highway 64. To reach station, proceed from Clay County courthouse in Hayesville east along U. S. Highway 64 for 20.2 miles to station on northwest side of road. The station is 0.11 mile west of the Macon-Clay County line, and 18.40 feet N 53° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 25 1965" and set in the top of a concrete post, projecting 0.4 foot above the ground.  
 Reference Mark 1: 22.82 feet N 25° E to nail in 8-inch pine.  
 Reference Mark 2: 10.71 feet N 62° W to railroad spike in 10-inch maple.  
 GRID POSITION (North Carolina): X = 629,320.0; Y = 514,822.1 (Hwy.-3)  
 Grid Azimuth to 2 EG 26 (distance 414.1 feet): 232°40'50".  
 ELEVATION: 3834.127 feet (Hwy.-2)

**2 EG 26** (NCHD, 1965; Clay-Macon Counties, North Carolina)  
 Located about 13.4 miles southwest of Franklin on U. S. Highway 64 at the Clay-Macon County line. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 18.96 miles to station, on the southeast side of the highway and 11.33 feet S 50° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 26 1965" and set in the top of a concrete post, flush with the ground.  
 Reference Mark 1: 15.61 feet N 67° E to nail in 12-inch white pine.  
 Reference Mark 2: 51.75 feet S 69° E to railroad spike in 40-inch oak.  
 GRID POSITION (North Carolina): X = 629,649.3; Y = 515,073.2 (Hwy.-3)  
 Grid Azimuth to 2 EG 25 (distance 414.1 feet): 52°40'50".  
 ELEVATION: 3843.298 feet (Hwy.-2)

**2 EG 27** (NCHD, 1965; Macon County, North Carolina)  
 Located about 12.7 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 16.96 miles to Nantahala River. Continue on U. S. Highway 64 for 1.20 miles to station on southeast side of road 6.50 feet S 53° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 27 1965" and set in the top of a concrete post, flush with the ground.  
 Reference Mark 1: 27.4 feet S 55° E to railroad spike in 12-inch maple.  
 Reference Mark 2: 34.38 feet S 15° W to nail in 4-inch maple.  
 GRID POSITION (North Carolina): X = 632,150.0; Y = 517,407.7 (Hwy.-3)  
 Grid Azimuth to 2 EG 28 (distance 492.4 feet): 187°33'20".  
 ELEVATION: 3533.912 feet (Hwy.-2)

**2 EG 28** (NCHD, 1965; Macon County, North Carolina)  
 Located about 12.7 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin, west along U. S. Highway 64 for 16.96 miles to Nantahala River. Continue on U. S. Highway 64 for 1.10 miles to station on the north side of road. The station is 47.22 feet from edge of pavement. A standard NCSHC bronze disk stamped "2 EG 28 1965" and set in the top of a concrete post, projecting 0.2 foot above ground.  
 Reference Mark 1: 23.94 feet East to railroad spike in 20-inch oak.  
 Reference Mark 2: 8.53 feet N 40° W to nail in 4-inch wild cherry.  
 GRID POSITION (North Carolina): X = 632,214.8; Y = 517,895.9 (Hwy.-3)  
 Grid Azimuth to 2 EG 27 (distance 492.4 feet): 07°33'20".  
 ELEVATION: 3511.237 feet (Hwy.-2)

**2 EG 29** (NCHD, 1965; Macon County, North Carolina)  
 Located about 11.8 miles southwest of Franklin and 9.1 miles southeast of Kyle. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 16.95 miles to the intersection of Aquone Lake Forest Service Road. Turn right on the Aquone Lake Forest Service Road and proceed in a northwesterly direction for 0.20 mile to station on the southwest side of the road. The station is 37.5 feet S 25° W of center line of National Forest Service Road No. 27. A standard NCSHC bronze disk stamped "2 EG 29 1965" and set in the top of a concrete post, projecting 0.50 foot above ground.  
 Reference Mark 1: 3.75 feet N 62° E to railroad spike in 20-inch oak.  
 Reference Mark 2: 21.79 feet S 5° W to nail in 18-inch oak.  
 Reference Mark 3: 4.10 feet N 72° W to nail in 18-inch oak.  
 GRID POSITION (North Carolina): X = 636,095.3; Y = 521,176.3 (Hwy.-3)  
 Grid Azimuth to 2 EG 30 (distance 701.8 feet): 339°47'20".  
 ELEVATION: 3286.102 feet (Hwy.-2)

**2 EG 30** (NCHD, 1965; Macon County, North Carolina)  
 Located about 11.9 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 16.96 miles to bridge over Nantahala River. The station is located on the northeast side of U. S. Highway 64 at the southeast end of the north bridge railing and 6.65 feet N 40° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 30 1965" and set in the top of a concrete post, flush with the ground.  
 Reference Mark 1: 35.29 feet S 18° W to chiseled cross on southeast end of south bridge railing.  
 Reference Mark 2: 3.10 feet N 52° W to chiseled cross on the southeast end of the north bridge railing.  
 GRID POSITION (North Carolina): X = 636,337.7; Y = 520,517.7 (Hwy.-3)  
 Grid Azimuth to 2 EG 29 (distance 701.8 feet): 159°47'20".  
 ELEVATION: 3276.730 feet (Hwy.-2)

**2 EG 31** (NCHD, 1965; Macon County, North Carolina)  
 Located about 10.8 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 14.35 miles to the National Forest Road at Wallace Gap. Continue on U. S. Highway 64 for 1.15 miles to station on the south side of the road. The station is 18.21 feet S 6° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 31 1965" and set in the top of a concrete post, flush with the ground.  
 Reference Mark 1: 18.41 feet S 25° E to railroad spike in 12-inch oak.  
 Reference Mark 2: 47.35 feet N 84° W to nail in 10-inch oak.  
 GRID POSITION (North Carolina): X = 641,361.3; Y = 521,316.0 (Hwy.-3)  
 Grid Azimuth to top of private radio tower in yard (distance about 1500 feet): 120°01'40".  
 ELEVATION: 3424.620 feet (Hwy.-2)

**2 EG 32** (NCHD, 1965; Macon County, North Carolina)  
 Located about 10.20 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 14.35 miles to the National Forest Road at Wallace Gap. Continue on U. S. Highway 64 for 0.35 mile to station on north side of road. Station is 29.3 feet N 5° W of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 32 1965" and set in the top of a concrete post, projecting 0.2 foot above ground.  
 Reference Mark 1: 10.38 feet N 10° W to nail in 10-inch oak stump.  
 Reference Mark 2: 25.91 feet East to railroad spike in 18-inch oak.  
 GRID POSITION (North Carolina): X = 644,719.3; Y = 522,083.2 (Hwy.-3)  
 Grid Azimuth to 2 EG 33 (distance 1408.4 feet): 284°01'00".  
 ELEVATION: 3650.273 feet (Hwy.-2)

**2 EG 33** (NCHD, 1965; Macon County, North Carolina)  
 Located about 10.1 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 14.35 miles to a National Forest Road at Wallace Gap. Continue on U. S. Highway 64 for 0.10 mile to station on the northeast side of highway and 21.34 feet N 43° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 33 1965" and set in the top of a concrete post, projecting 0.4 foot above the ground.  
 Reference Mark 1: 30.0 feet N 82° E to nail in 20-inch oak.  
 Reference Mark 2: 70.34 feet S 66° E to nail in 10-inch oak.  
 Reference Mark 3: 123.9 feet N 48° W to chiseled square on end of concrete headwall.  
 GRID POSITION (North Carolina): X = 646,085.8; Y = 521,742.1 (Hwy.-3)  
 Grid Azimuth to 2 EG 32 (distance 1408.4 feet): 104°01'00".  
 ELEVATION: 3734.510 feet (Hwy.-2)

**2 EG 34** (NCHD, 1965; Macon County, North Carolina)  
 Located about 9.3 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 12.5 miles to SR 1300. Continue on U. S. Highway 64 for 1.00 mile to station on the east side of the highway. Station is 11.58 feet S 77° E of edge of pavement. A standard NCSHC bronze disk stamped "2 EG 34 1965" and set in the top of a concrete post, flush with the ground.  
 Reference Mark 1: 91.01 feet N 5° W to chiseled square on rock.  
 Reference Mark 2: 55.75 feet S 55° W to chiseled cross on rock.  
 GRID POSITION (North Carolina): X = 649,192.0; Y = 523,790.4 (Hwy.-3)  
 Grid Azimuth to Apex of cabin roof on top of Yellow Mountain Fire Tower (distance 19 miles): 265°58'00".  
 ELEVATION: 3405.405 feet (Hwy.-2)

**2 EG 35** (NCHD, 1965; Macon County, North Carolina)  
 Located about 8.9 miles southwest of Franklin on U. S. Highway 64. To reach station, proceed from the Macon County courthouse in Franklin west along U. S. Highway 64 for 11.5 miles to SR 1303. Continue on U. S. Highway 64 for 0.74 mile to station on west side of road. Station is 7.88 feet west of edge of pavement and 2.0 feet east of board fence. A standard NCSHC bronze disk stamped "2 EG 35 1965" and set in the top of a concrete post, flush with the ground.  
 Reference Mark 1: 67.92 feet N 30° W to chiseled square on concrete slab at doorsteps.  
 GRID POSITION (North Carolina): X = 652,450.5; Y = 523,517.2 (Hwy.-3)  
 Grid Azimuth to apex of cabin roof on top of Yellow Mountain Fire Tower (distance about 18 miles): 265°39'30".  
 ELEVATION: 2908.447 feet (Hwy.-2)

**FLEABACK** (USGS, 1933; Clay County, North Carolina)  
 Located 3 miles south and 5.8 miles east of Hayesville, 1.2 miles north of Georgia-North Carolina state line, 1.25 miles south of Hayesville-Franklin Highway at a point where a county road leads south through Deep Gap to the town of Hiwassee. Station is on the summit of the westerly of two tops forming a low mountain known as the "Fleaback" and is about 0.5 mile east of the Deep Gap mentioned above. The mountain was heavily timbered, but enough was cut to offer an unobstructed view from the west around through the north to northeast. A lane was cut through to Standing Indian to the east. Station is a standard tablet stamped "FLEABACK 1933" and set in top of concrete post set 2.5 feet in ground on highest part of west summit. Ridge extends east-west and about 30 feet wide at the top.

GEODETIC POSITION: Lat. = 35°00'08.096"; Long. = 83°43'11.367" (G-3)  
 Geodetic Azimuths  

To Station	Azimuth	Back Azimuth	Log Meters	Miles
Braestown	30°26'43.8"	210°23'35.7"	4.216388	10.2
Lance	85°07'54.4"	264°58'07.7"	4.415658	16.2
Sheep	89°22'33.0"	269°12'07.8"	4.441603	17.2
Standing Indian	257°28'34.2"	77°34'49.5"	4.230067	10.6

 GRID POSITION (North Carolina): X = 587,111.9; Y = 489,329.0 (G-3)  
 GRID POSITION (Georgia West): X = 633,816.4; Y = 1,820,033.1 (G-3)  
 ELEVATION: 3165 feet (T-5)

**GAGE STATION RM 3** (USGS, 1940; Macon County, North Carolina)  
 Located on right bank on Nantahala Forest Service road 300 feet upstream from Roaring Fork, 1,000 feet downstream from Buck Creek, and 5 miles downstream from town of Rainbow Springs. Reached by driving 5 miles downstream on Nantahala Forest Service road from U. S. Highway 64 at Rainbow Springs. A standard USGS tablet in center of top of intake headwall behind staff gage.  
 ELEVATION: 3077.66 feet (T-3)



GWM 138 (USGS, 1936; Clay County, North Carolina)

Located 6.9 miles southeast by road from Hayesville, 1.25 miles north of Low Gap, 0.65 mile south of U. S. Highway 64, about 500 feet southeast of intersection of old gap road and Shooting Creek Road (paved), about 100 feet south of W. F. Sellers home in the west one of four small rock outcrops, 46 feet west of road, top of hill, in pasture. A standard USGS tablet stamped "GWM 138 1936 2015" painted "USPBM 2015.0" and set in top of quartzite boulder. Steel post with control marker sign set 1.4 feet southwest of monument.

ELEVATION: 2014.845 feet or 614.126 meters (T-2)

HMH 1 (TVA, 1937; Cherokee-Macon Counties, North Carolina)

Located on nose of ridge about 500 feet north of top of Weatherman Knob, on Cherokee-Macon County line, 17.24 feet N 8° E of 30-inch black oak, 22.37 feet N 70° W of 10-inch white oak, and 9.80 feet S 12° E of 9-inch white oak. Station is an iron pipe driven in ground ~~RECOVERED AS DESCRIBED~~ and is stamped "HMH 1 1937".

GEODETIC POSITION: Lat. = 35°09'46.00"; Long. = 83°44'08.28" (T-4)

To Station	Geodetic Azimuth	Back Azimuth	Log Meters	Miles
Hayesville 2	149°24'44.3"	329°24'10.6"	3.463291	1.8
Tatham Tower	152 38 19.9	332 36 15.9	4.073058	7.4
Wesser Tower	228 37 24.2	48 42 52.6	4.282881	11.9
Standing Indian Tower	308 05 27.1	128 12 15.9	4.359840	14.2

ELEVATION: 4794 feet (T-5) ~~RECOVERED AS DESCRIBED~~ **1978**

IP 22 (TVA, 1942; Clay County, North Carolina)

Located 4.9 miles east of Hayesville, along U. S. Highway 64, on property of Nettie Smart Heirs (TVA), about 800 feet east of culvert for branch of reservoir, about 400 feet south of old house, about 300 feet west of 15-foot cut on highway. Tablet is in top of concrete L-shaped headwall directly over center 18-inch culvert on south side of highway for small roadside drain, about 100 feet north of west end of long poultry house. A standard TVA tablet stamped "IP 22 1942" in top of headwall.

ELEVATION: 1951.32 feet (T-3)

IP 23 (TVA, 1942; Clay County, North Carolina)

Located 5.1 miles east of Hayesville along U. S. Highway 64, on property of Nettie Smart Heirs (TVA), about 120 feet east of intersection of old road, about 700 feet west of culvert for Licklog Creek, in center of top of concrete headwall of 3- by 3-foot box culvert on north side of highway. Culvert is over dry drain and about 100 feet southwest of new 1-story frame white house. A standard TVA tablet stamped "IP 23 1942" and set in headwall.

ELEVATION: 1940.01 feet (T-3)

IP 24 (TVA, 1942; Clay County, North Carolina)

Located 5.4 miles east of Hayesville along U. S. Highway 64, on property of E. E. Kitchens (TVA), about 600 feet east of culvert for Lick Log Creek, about 250 feet east of small store. Tablet is in top of concrete L-shaped headwall directly over center of 30-inch pipe on southwest side of highway. Culvert is for highway drain only. A standard TVA tablet stamped "IP 24 1942" and set in headwall.

ELEVATION: 1953.77 feet (T-3)

IP 25 (TVA, 1942; Clay County, North Carolina)

Located 5.7 miles east of Hayesville along U. S. Highway 64, on property of Walter Burch (TVA), about 100 feet southwest of Eilers store and service station, about 100 feet northwest of T-road intersection (Cold Branch Road). Tablet is in center of top of concrete headwall of 3- by 3-foot box culvert. A standard TVA tablet stamped "IP 25 1942".

ELEVATION: 1950.23 feet (T-3)

IP 26 (TVA, 1942; Clay County, North Carolina)

Located 6.0 miles east of Hayesville, along U. S. Highway 64, on property of Ernest Penland (TVA), about 1100 feet northwest of intersection Shooting Creek Road, about 450 feet southeast of culvert for branch. Tablet is in top of L-shaped concrete headwall directly over center of 24-inch pipe on northeast side of highway. Culvert is for roadside drain. A standard TVA tablet stamped "IP 26 1942".

ELEVATION: 1935.12 feet (T-3)

IP 27 (TVA, 1942; Clay County, North Carolina)

Located 6.1 miles east of Hayesville, along U. S. Highway 64, on property of Ernest Penland, about 600 feet northwest of intersection of Shooting Creek Road, about 500 feet southeast of "BM IP 26". Tablet is in top of L-shaped concrete headwall directly over center of 18-inch pipe on the northeast side of highway. Culvert is for highway drain. A standard TVA tablet stamped "IP 27 1942".

ELEVATION: 1939.50 feet (T-3)

IP 28 (TVA, 1942; Clay County, North Carolina)

Located 6.5 miles east of Hayesville along U. S. Highway 64, on property of Marshall Gravatt and Merel Klingler (TVA), about 525 feet southeast of culvert for branch under highway, about 150 feet southeast of T-road northwest, about 250 feet north of Homer Berrong's house. Tablet is in top of L-shaped concrete headwall directly over center of 18-inch pipe on northwest side of highway. Culvert is for side drain. A standard TVA tablet stamped "IP 28 1942".

ELEVATION: 1951.33 feet (T-3)

IP 29 (TVA, 1942; Clay County, North Carolina)

Located 6.3 miles east of Hayesville, along U. S. Highway 64, on property of Marvin Cabe (TVA), about 500 feet south of U. S. Highway 64 at south end of concrete bridge over Shooting Creek. Tablet is on top of curve at east wing retaining wall. A standard TVA tablet stamped "IP 29 1942".

ELEVATION: 1945.60 feet (T-3)

IP 30 (TVA, 1942; Clay County, North Carolina)

Located 6.5 airline miles east of Hayesville, 1.3 miles southeast of U. S. Highway 64, on Hiwassee, Georgia, Shooting Creek Road, on property of M. H. Nichols (TVA). A standard TVA tablet stamped "IP 30 1942".

NOTE: Tablet is about 8 feet under pool contour, thereby submerged at times, and is in center of top of concrete headwall of 8- by 6-foot box culvert of Owen Branch on southeast side of road.

ELEVATION: 1920.64 feet (T-3)

JWP 57 (TVA, 1954; Clay County, North Carolina)

Located on the highest point of Boteler Mountain and surrounded by a pile of sandstone rocks. To reach station from Franklin, drive southwest along U. S. Highway 64 to Glade Gap. Park car and walk northwest up a ridge trail about two miles to a gap and ridge intersection. Bear left and continue west on trail past two small tops about one half mile to a small clearing in a gap. Leave trail and follow ridge west about 0.3 mile to station as described and referenced to blazed trees with tacks driven in blazed trees. Station is a railroad spike stamped "JWP 57".

Reference Mark 1: 5.90 feet N 50° W to tack in a 3-inch red oak blazed.  
Reference Mark 2: 23.25 feet S 15° W to tack in a 4-inch red oak blazed.  
Reference Mark 3: 7.75 feet S 85° E to tack in a 2-inch red oak blazed.  
GRID POSITION (North Carolina): X = 606,510.6; Y = 512,504.5 (T-4)  
ELEVATION: 5010 feet (T-5)

JWP 58 (TVA, 1954; Macon County, North Carolina)

Located on the highest point of Thorn Mountain about 12 airline miles southwest of Franklin. To reach station from Franklin, drive southwest along U. S. Highway 64 16.7 miles, from the junction with U. S. Highway 23 and 441 in Franklin, to a gravel road northwest down the Nantahala River. Turn right 2.1 miles to a sharp curve at Bryson Branch. Turn right and drive up branch 0.5 mile to the mouth of Siler Bald Branch. Park and walk up Bryson Branch 0.5 mile to a trail northwest. Walk up trail to ridge, turn right and walk up ridge, north to the top and station as described and referenced to blazed trees with tacks. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 4.5 feet N 33° W to tack in 3-inch red oak blazed.  
Reference Mark 2: 19.3 feet N 70° E to tack in 18-inch post oak blazed.  
Reference Mark 3: 24.0 feet S 48° E to tack in 7-inch hickory blazed.  
GRID POSITION (North Carolina): X = 632,797.0; Y = 533,476.0 (T-4)  
ELEVATION: 4744 feet (T-5)

JWP 59 (TVA, 1954; Macon County, North Carolina)

Located on top of Panther Knob Mountain and about 11 miles southwest of Franklin. To reach station from Franklin, go southwest along U. S. Highway 64 for 5.0 miles to a paved road northwest. Turn right and drive to Wayah Gap 9.4 miles. Turn left and follow a woods road along the Appalachian Trail 3.4 miles in a southeasterly direction to Panther Gap. Park and walk southwest up the ridge to the top of Panther Knob and the station 30 feet southwest of the high point as described and referenced. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 15.0 feet S 80° W to tack in 12-inch hickory tree.  
Reference Mark 2: 19.8 feet N 10° E to tack in 14-inch hickory tree.  
Reference Mark 3: 18.7 feet S 45° E to tack in 24-inch hickory tree.  
GRID POSITION (North Carolina): X = 637,974.7; Y = 532,903.9 (T-4)  
ELEVATION: 4621 feet (T-5)

K 3 (USGS, 1933; Macon County, North Carolina)

Located 5.3 miles southwest of Franklin, thence 2.9 miles west on Andrews Road, 1100 feet west of west entrance to State Game Refuge, 125 feet west and 25 feet north of T-road south at rock quarry, 22 feet north of center line of road, in trail to boxed house, about 7 feet above road level, about 65 feet east of drain, 40.0 feet north of west one of row of walnut trees across road. A standard tablet stamped "K 3 1933" painted "USPBM 2268.5" set in top of sandstone outcrop.

ELEVATION: 2269.87 feet (G-3)

K 5 (USGS, 1933; Macon County, North Carolina)

Located 5.3 miles southwest from Franklin, thence 6.1 miles west on Andrews Road, 50 feet south of center line of road, on highest point of 10- by 10-foot boulder directly across road from mouth of hollow, about 100 feet west of west end of curve, about 5 feet above level of road. A standard tablet stamped "K 5 1933" painted "US 2800.1 FBM". Steel post with control marker sign set 3.4 feet west of tablet.

ELEVATION: 2801.59 feet (G-3)

K 6 (USGS, 1933; Macon County, North Carolina)

Located at Wayah Gap, 150 feet south of road intersection, set in very thick rhododendron thicket, about 75 feet northwest of northwest corner of campers shelter (log), about 18 feet southwest of center line of grown-up woods road, under Forest Service Telephone Line, 70 feet east of road leading south, 150 feet south of Andrews Road, and 15 feet north of 24-inch oak tree. A standard tablet stamped "K 6 1933" painted "US 4178.0 FBM" set in concrete post. Steel post with control marker sign set 1 foot southeast of monument.

ELEVATION: 4180.01 feet (G-3)

K 7 (USGS, 1934; Macon County, North Carolina) **Good 1/28**

Located 3.5 miles west of Wayah Gap, 45 feet east of intersection of T-road northeast, at sharp curve in main road, 60 feet east of drain crossing, 20 feet south of center line of T-road, 40 feet south of Hurricane Creek, about 90 feet east 30-inch hemlock that stands on inside of hairpin curve. A standard tablet stamped "K 7 1934" painted "US 3342.8 FBM" set in a concrete post. Steel post with control marker sign set 1 foot southeast of monument.

ELEVATION: 3344.62 feet (G-3)

K 10 (USGS, 1934; Macon County, North Carolina)

Located 1.7 miles northeast of Junaluska Gap, at Morgan Cut, 150 feet northeast of road fork, and 14 feet southeast of ridge road. A standard tablet stamped "K 10 1934" painted "US 3604.7 FBM" set in a concrete post. Steel post with control marker sign set 1 foot southeast of monument.

ELEVATION: 3606.70 feet (G-3)

K 11 (USGS, 1934; Cherokee County, North Carolina)

Located 1.8 miles southwest of Morgan Cut, about 500 feet south of "Y" road in Junaluska Gap, 23 feet northwest of center line of road, 75 feet west of south one of two 36-inch maple trees standing across road, 41 feet southwest of telephone pole, and 25 feet northwest of center line of road. A standard tablet stamped "K 11 1934" set in sandstone boulder. Steel post with control marker sign set 1 foot west of tablet.

ELEVATION: 3505.86 feet (G-3)

BM K 12A (TVA, 1964; Cherokee County, North Carolina)

Located 6.3 miles east of Andrews, at intersection Junaluska Road and Choga (Tuni Gap Road), on property of Maggie Hicks. Tablet set in the center of the downstream headwall of a 6- by 6-foot concrete box culvert over Junaluska Creek on the Choga (Tuni Gap) road, about 160 feet southeast of the intersection.

of Choga Road and the new Junaluska Road, about 100 feet southeast of Maggie Hicks house, and about 100 feet southeast of old "RM K 12" location. A standard TVA tablet stamped "RM K 12A 1964".

ELEVATION: 2879.52 feet (T-3)

**TP K 12A** (TVA, 1964; Cherokee County, North Carolina)

Located on the downstream corner of right bank side of downstream end of a 6- by 6-foot twin concrete box culvert over Junaluska Creek, on Choga Road, about 150 feet southeast of intersection of Choga Road and new Junaluska Road, about 100 feet east of Maggie Hicks house, about 100 feet southeast of old tablet "K 12". A chiseled square.

ELEVATION: 2879.63 feet (T-3)

**K 16** (USGS, 1934; Macon County, North Carolina)

Located 2.6 miles east of Rainbow Springs, on U. S. Highway 64, in Wallace Gap, 50 feet southwest of road fork, on west side of gap, about 225 feet west of entrance to "Standing Indian Wild Life Management Area", and 12 feet southeast of timber road. A standard tablet stamped "K 16 1934" painted "US 3736.7 FPM" set in concrete post. Steel post with control marker sign set 1 foot southwest of monument.

ELEVATION: 3737.74 feet (G-3)

**K 17** (USGS, 1934; Macon County, North Carolina)

Located 0.4 mile west of post office at Rainbow Springs, on U. S. Highway 64, 210 feet southwest of bridge over Black Creek, at curve in road, 0.3 mile west of Nantahala River, 25 feet south of center line of highway, and 35 feet northwest of center line of creek. A standard tablet stamped "K 17 1934" painted "US 3295.3 FPM" set in concrete post, 14 inches above ground. Steel post with control marker sign set 1 foot southeast of monument.

ELEVATION: 3296.17 feet (G-3)

**K 18** (USGS, 1934; Clay County, North Carolina)

Located 3.3 miles southwest of Rainbow Springs, 0.3 mile southeast of Buck Creek CCC Camp No. F 12, 150 feet west of west end of bridge over Buck Creek, set at top of mountain, 75 feet southwest of center line of U. S. Highway 64, 13 feet southeast of 36-inch white oak. A standard tablet stamped "K 18 1934" painted "US 3465.8 FPM" set about 18 inches above ground in top of concrete post. Steel post with control marker sign set 1 foot southwest of monument.

ELEVATION: 3467.26 feet (G-3)

**K 19A** (TVA, 1965; Clay County, North Carolina)

Located 5.9 miles southwest of Rainbow Springs in Glade Gap, on U. S. Highway 64, on U. S. Forest Service property. Monument is old G.S. monument "K 19 1934" which was about to be lost due to erosion. The numbers "K 19 1934" were filed off this date and "K 19A 1965" were stamped on tablet. Monument was reset in approximately same position as old location but lowered about 2 feet, set even with south end of cut on west side of highway, 58 feet southwest of center line of U. S. Highway 64 and about 2.5 feet higher than highest point in highway, 6.45 feet N 60° E of 16-inch white oak, 6.6 feet N 35° E of 12-inch white oak, and 40.8 feet N 35° W of 8-inch poplar. A 200 pound G.S. monument with G.S. tablet. Steel post with control marker sign set 1 foot west of monument.

ELEVATION: 3677.03 feet (T-3)

**K 20** (USGS, 1934; Clay County, North Carolina)

Located 12.7 miles east of Hayesville, 130 feet northeast of wooden highway bridge over Mill Creek, 60 feet northwest of center line of U. S. Highway 64, in side yard of house owned by R. C. Moore, and is about 100 feet north of R. C. Moore's store. A standard tablet stamped "K 20 1934" painted "US 2207.6 FPM" set in concrete post. Steel post with control marker sign set 1 foot north of monument.

ELEVATION: 2208.67 feet (G-3)

**K 21** (TVA, 1934; Clay County, North Carolina)

Located 9.5 miles east of Hayesville, 190 feet east of T-road north, 150 feet east of Paul Woody's mailbox, 23 feet south of center line of U. S. Highway 64, on top of flat area of highest ledge of rock outcrop at east end of cut, about 230 feet southeast of center of bridge over Shooting Creek (on T-road), 64 feet west of center of south end of 24-inch CGRP. A standard TVA tablet stamped "K 21 1934" and set in rock ledge. Steel post with control marker sign set 3.7 feet south of tablet.

ELEVATION: 2004.61 feet (G-3)

**K 26** (USGS, 1934; Macon County, North Carolina)

Located at Oakdale, 44.9 feet northeast of southeast corner of Oakdale Church, 27.7 feet east of northeast corner (new part), 96 feet north of center line of road. A standard tablet stamped "K 26 1934" painted "US 2199.6 FPM" set in concrete post, projecting 12 inches above ground. Reference mark is copper nail and washer painted "US 2194.2 FPM" 250 feet east of tablet, in northeast corner of school yard, in root on west side of 24-inch oak tree and 5.40 feet lower than tablet.

Report on Condition (TVA 1952): Monument found leaning slightly to north as if it had been hit on the south side.

ELEVATION: 2200.34 feet (G-3)

**K 27** (USGS, 1934; Macon County, North Carolina)

Located 1.7 miles west of Oakdale Church, 24 feet northwest of northwest corner of log cabin, 66 feet south of center line of road, and is about 120 feet southwest of home of John Ray. A standard tablet stamped "K 27 1934" painted "US 2415.5 FPM" set in top of boulder. Steel post with control marker sign set 0.7 foot northeast of tablet.

ELEVATION: 2416.262 feet or 736.478 meters (T-2)

**K 28** (USGS, 1934; Macon County, North Carolina)

Located 3.5 miles east of Kyle, 420 feet northwest of Burningtown Gap, 60 feet south of woods line, on southwest slope of ridge, in a 5-foot diagonal round white boulder, about 125 feet southwest of point where Appalachian trail enters woods, 2 feet above ground. A standard tablet stamped "K 28 1934" painted "US 4233.2 FPM" set in top of large white boulder. Steel post with control marker sign set 1.3 feet northeast of tablet.

ELEVATION: 4235.523 feet or 1290.990 meters (T-2)

**K 29** (USGS, 1934; Macon County, North Carolina)

Located at Kyle, 60 feet west of T-road east to Burningtown Gap, 90 feet west of wooden bridge, 50 feet west of center line of road, in top of and in middle of vertical sharp rock outcrop, at end of yard fill, about 55 feet

southeast of 1-1/2-story stucco house and 63 feet southwest of southwest corner of store (main part). A standard tablet stamped "K 29 1934" painted "US 3214.6 FPM" set in top of rock outcrop. Steel post with control marker sign set 1.5 feet southeast of monument.

Reference mark is a chiseled square on top of sharp rock, 80 feet northeast of tablet, 20 feet east of center line of road and 2.08 feet lower than the tablet.

ELEVATION: 3216.109 feet or 980.272 meters (T-2)

**K 32** (USGS, 1934; Clay County, North Carolina)

Located 0.9 mile northeast of Philips store, 80 feet north of Tusquitee Methodist Church, 50 feet north of center line of road, 93.3 feet northwest of northeast corner of brick church, and 90.6 feet north of northeast corner of church. A standard tablet stamped "K 32 1934" painted "US 2018.3 FPM" set in concrete post, projecting 6 inches above ground. Steel post with control marker sign set 1 foot north of monument.

ELEVATION: 2019.36 feet (G-3)

**K 33** (USGS, 1934; Clay County, North Carolina) *NE-PD 1/88*

Located about 2.4 miles northeast of Tusquitee Church, 3.3 miles northeast of Philips store, 105 feet north of intersection of T-road north to Tuni Gap, and 45 feet northeast of center line of road. A standard tablet stamped "K 33 1934" painted "US 2152.3 FPM" set in concrete post, projecting 4 inches above ground. Steel post with control marker sign set 1 foot north of monument.

ELEVATION: 2153.27 feet (G-3)

**K 34** (USGS, 1934; Clay County, North Carolina) *GOOD 1/88*

Located 2.6 miles south of Tuni Gap, 12 feet northeast of intersection of logging road west, 50 feet west of intersection of drain (Steve Branch) and Tuni Gap road, 30 feet west of center line of road. Bench mark is on southeast face of dome-shaped 8- by 10-foot rock boulder, and about 6 feet above road and drain crossing. A standard tablet stamped "K 34 1934" and painted "US 2646.1 FPM" set in top of boulder.

ELEVATION: 2647.44 feet (G-3)

**K 35A** (TVA, 1964; Macon County, North Carolina) *33.5*

Located at Tuni Gap, 32 feet northeast of center line of road at point where road crosses top, on U. S. Forest Service road, on property of U. S. Forest Service, 8 feet above level of road, 8.8 feet southwest of 18-inch white oak, and 18.0 feet northwest of 18-inch white oak. A reset TVA tablet stamped "K 35A 1964" painted "US 3524.6 FPM". A steel post with control marker sign set 1 foot east of monument. *105 SE OF X-ROD*

NOTE: Broken top was replaced on base of "K 35 1934" and elevation re-established within 0.01 foot.

ELEVATION: 3525.8 feet (T-4)

**K 37** (USGS, 1934; Clay County, North Carolina)

Located 5.4 miles northwest from Rainbow Springs. To reach from Rainbow Springs, turn northwest off U. S. Highway 64 onto Nantahala National Forest road No. 27, following said Forest Road in northwest direction for 5.4 miles to old logging road intersection. Turn left (northwest) onto old logging road and follow it 1000 feet to point east of and directly across Nantahala River from station. Station is 48 feet west of 36-inch fir tree, said tree on bank of Nantahala River. Station is 55 feet west of Nantahala River, 30 feet east of logging road (in old railroad bed at this point) and is 2-1/2 feet lower than this road, 6 feet south of 16-inch birch tree (marked this date 8-1-57 with triangular blaze by finder), and 225 feet south from metal trash screen across the Nantahala River. A standard USGS tablet stamped "K 37 1934" and set in concrete post, projecting 6 inches above ground.

ELEVATION: 3082.19 feet (G-3)

**K 38** (USGS, 1934; Clay County, North Carolina)

Located about 2.3 miles (airline) south of CCC Camp No. F-10, near Clay-Macon county line, 3.0 miles northwest along logging road from gaging station on Nantahala National Forest Road No. 27 near mouth of Roaring Fork Creek, 192 feet east and across said logging road from a 24-inch dead oak tree, 6 feet east from 18-inch oak tree, directly opposite and across said logging road from 16-inch poplar tree, on left bank of Nantahala River, 25 feet north of center line of track. Station is 25 feet north of center line of the logging road. A standard tablet stamped "K 38 1934" painted "US 3080.7 FPM" and set in concrete post.

NOTE: Railroad track as originally described has been torn out and said logging road has been built on the old railroad bed. In 1952 it was reported tablet is not accessible other than by boat in Nantahala Lake.

ELEVATION: 3021.60 feet (G-3)

**K 40** (USGS, 1934; Macon County, North Carolina)

Located 2.3 miles south of Wallace Gap by road, thence 0.8 mile southeast by rail, on west side of railroad, about 3 airline miles southeast of Rainbow Springs. A standard tablet stamped "K 40 1934" painted "US 3438.1 FPM" and set in rock outcrop.

ELEVATION: 3439.68 feet (G-3)

**K 41** (USGS, 1934; Macon County, North Carolina)

Located 0.5 mile north of Kilby Gap, 0.35 mile south of old lumber camp and on east side of trail and stream. A standard tablet stamped "K 41 1934" and set in top of boulder.

NOTE: Not found in 1952 and 1957. Trail has grown up; accessibility would be difficult.

ELEVATION: 3823.08 feet (G-3)

**K 43** (USGS, 1934; Macon County, North Carolina)

Located at Standing Indian Fire Tower, on summit of mountain, about 4.3 airline miles southeast of Rainbow Springs, and 30 feet south of southeast corner of tower. A standard tablet stamped "K 43 1934" painted "US 5498.2 FPM" and set in rock outcrop.

ELEVATION: 5499.53 feet (G-3)

**K 44** (USGS, 1934; Macon County, North Carolina)

Located about 3.8 airline miles southeast of Rainbow Springs, 2.3 miles west of Standing Indian Fire Tower, in Deep Gap, 100 feet northeast of intersection of roads, 20 feet east of 48-inch oak tree, and 40 feet northeast of National Forest sign. A standard tablet stamped "K 44 1934" painted "US 4339.2 FPM" set in concrete post, projecting 6 inches above ground. Steel post with control marker sign set 1 foot southeast of monument.

ELEVATION: 4340.92 feet (G-3)

**K 45** (USGS, 1934; Clay County, North Carolina)

Located 2.5 miles northwest of Deep Gap, in Park Gap about 2.3 airline miles south of Rainbow Springs, and 70 feet northeast of center line of road. A standard tablet stamped "K 45 1934" painted "US 4182.3 FPM" set in concrete post. NOTE: Mark was searched for but not recovered in March 1952 and August 1957. It is thought to be in but covered over with silt from grading and ditching. ELEVATION: 4183.40 feet (G-3)

**L 54** (USCGS, 1933; Cherokee County, North Carolina)

Located 2.4 miles west by rail from Topton, 595 feet east of milepost No. 93, about 1 airline mile southwest of CCC Camp No. F-13, 4 feet north of north rail, 2 feet above top of rail, in top of rock on side of mountain across railroad from river, and about 650 feet northwest around railroad from northwest end of railroad trestle over Valley River. A standard USCGS disk stamped "L 54 1933".

Report on Condition (TVA, March 1957): Tablet scarred, good otherwise. ELEVATION: 2254.766 feet or 687.254 meters (C-2)

**LHT 1000 RESET** (TVA, 1938; RESET 1958; Macon County, North Carolina)

Located in center of top of concrete headwall of 5-by-7-foot box culvert at Long Branch, 2.3 miles northwest of Kyle, about 200 feet west of original position of the bench mark. Reset tablet is on northwest side of new road, about 500 feet southwest of road fork. A standard reset tablet stamped "LHT 1000 1958". ELEVATION: 2865.92 feet (T-3)

**LHT 1001** (TVA, 1938; Macon County, North Carolina)

Located 10.5 miles southeast of Nantahala, 1.1 miles northwest of Kyle, on Nantahala-Wayah Bald road. Station is on left bank of White Oak Creek, about 54 feet southeast from center line of road, 47.0 feet east of east corner of northeast end of downstream headwall of 8-by-10-foot triple box culvert, 37 feet southwest of stream end of rock outcrop, set flush with ground. Monument is 10 feet lower than road over creek. Station is 25.7 feet S 35° W from 8-inch white oak tree (painted arrow), and 25.5 feet S 60° E from telephone pole. A standard TVA tablet stamped "LHT 1001 1939" and set in concrete monument. Steel post with control marker sign set 1 foot southeast of monument. ELEVATION: 3108.531 feet or 947.482 meters (T-2)

**LHT 1002** (TVA, 1938; Macon County, North Carolina)

Located 1.1 miles southwest from Kyle, on Kyle-Andrews road, on property of Kyle School, on south side of road, in north edge of grove of oak trees, 0.1 mile south of 2-story frame dwelling, 57.0 feet west of center line of walkway to old schoolhouse, 93.0 feet northwest from northwest corner of old abandoned schoolhouse. Station is 17.0 feet northwest of 20-inch oak, 66.5 feet south of center line of highway, and 25.0 feet northeast of 18-inch oak tree. A standard TVA tablet stamped "LHT 1002 1939" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument.

Report on Condition (TVA 1952): Monument found. Corner chipped; tablet scarred. ELEVATION: 3414.081 feet or 1040.614 meters (T-2)

**LHT 1003** (TVA, 1938; Macon County, North Carolina)

Located 1.9 miles southwest of Kyle, on Kyle-Andrews road, on property of Mark Hane, on south side of highway in northwest corner of front yard (1-1/2-story frame house of Mark Hane), 300 feet northeast of Y-road up Rowland Branch, across road from small store building and garage, 12 feet southeast of southwest end of stone wall in front of house, 20.0 feet west of northwest corner of house, 8.3 feet northeast of 14-inch maple, 36.0 feet southeast of center line of highway, and 39.0 feet southeast of center line of walk to house. A standard TVA tablet stamped "LHT 1003 1939" and set in concrete monument. Steel post with control marker sign set 0.8 foot southeast of monument.

NOTE: Under 4 inches of yard and in 1952. ELEVATION: 3217.969 feet or 980.839 meters (T-2)

**LHT 1004** (TVA, 1938; Macon County, North Carolina)

Located 14.3 miles southeast of Nantahala, 2.7 miles southwest of Kyle, on south side of Nantahala-Wayah Bald road, at intersection of road from Aquone (now submerged), 38 feet from intersection road, set about in center of small triangle formed by three trees in gap of ridge running east and west, 7 feet west of path going south. Station is 78.0 feet S 25° W from 15-inch white oak tree, 2.5 feet west from 10-inch red oak tree, and 2.2 feet east from 10-inch white oak tree. A standard TVA tablet stamped "LHT 1004 1939" and set in concrete monument, about flush with ground.

NOTE: Submerged at times by waters of Nantahala Lake but usable when reservoir is low. ELEVATION: 2999.351 feet or 914.204 meters (T-2)

**LHT 1009** (TVA, 1938; Macon County, North Carolina)

Located 9.0 miles southeast of U. S. Post Office in Andrews, on road from Andrews to former community of Aquone. Station is 1.8 miles east of old road gap, 43 feet south of center line of road, 80 feet west of Y-road intersection from south, just west of east entrance to old quarry site, same elevation as road surface. Station is 7.4 feet S 40° W from 30-inch wild cherry tree (painted FPM), 54.2 feet N 65° W from 6-inch spruce pine tree, and 43.0 feet south from center line of road. A standard TVA tablet stamped "LHT 1009 1939" and set in concrete monument, set flush with the ground. Steel post with control marker sign set 1 foot southwest of monument. ELEVATION: 3063.626 feet or 933.795 meters (T-2)

**LHT 1010** (TVA, 1938; Macon County, North Carolina)

Located 8.1 miles southeast of U. S. Post Office in Andrews, on road from Andrews to former community of Aquone. Station is on north side of road, 19 feet from center line of road, 0.9 mile east of old road gap, on right bank of small branch, 55 feet from center line of road over culvert, 3 feet above road surface, 4.5 feet southeast of 6-inch twin oak, 48.0 feet N 10° W from 6-inch quadruple wild cherry, 55.0 feet west from north end of 15-inch corrugated metal culvert top of stone head wall, and 19.0 feet north from center line of road. A standard TVA tablet stamped "LHT 1010 1939" and set in concrete monument, flush with ground. Steel post with control marker sign set 1 foot north of monument. ELEVATION: 3237.221 feet or 986.707 meters (T-2)

**LHT 1012** (TVA, 1938; Cherokee County, North Carolina)

Located 6.8 miles southeast of U. S. Post Office in Andrews, on road from Andrews to former community of Aquone. Station is on south side of road at

sharp curve, 0.5 mile west of old road gap, 22 feet from center line of road, on right side of small drain, 3 feet above road surface, about 100 feet east of Ashburn Branch. Station is 15.0 feet N 85° E from southeast end of 15-inch metal culvert, 52.0 feet (slope chain) N 50° E from 48-inch chestnut stump painted "FPM", and 22.0 feet S 40° E from center line of road. A standard TVA tablet stamped "LHT 1012 1939" and set in concrete monument, flush with ground. Steel post with control marker sign set 1 foot southeast of monument. NOTE: Monument in area subject to silting. ELEVATION: 3162.553 feet or 963.948 meters (T-2)

**LHT 1070** (TVA, 1938; Macon County, North Carolina)

Located 10.6 miles northwest of Franklin, via North Carolina Highway 28, Iotla-Parrish Gap Road, 7.8 miles southwest of U. S. Post Office Stiles, on Burnington Gap Road, on property of Oakdale Church. Station is in front of Oakdale Church on east side of entrance just east of concrete steps, 1.4 feet east from third step from bottom, 2.3 feet south from block foundation of church, and 9.3 feet west from southeast corner of church house. A standard TVA tablet stamped "LHT 1070 1939" and set in concrete monument, flush with church yard. ELEVATION: 2199.146 feet or 670.301 meters (T-2)

**LHT 1071** (TVA, 1938; Macon County, North Carolina)

Located 11.2 miles northeast of courthouse in Franklin, via State Highway 28, Iotla-Parrish Gap Road (Burnington Road), 7.9 miles southwest of post office Stiles, on Mt. Sinal Church property. Station is in front of Mt. Sinal Church, just north of front entrance, 1 foot north of stone steps, 1.5 feet east of front wall, 11.5 feet S 45° W from 12-inch spruce tree, 9.0 feet south from northeast corner of church, and 1.2 feet north from third step from bottom. A standard TVA tablet stamped "LHT 1071 1939" set in concrete monument, flush with the church yard. ELEVATION: 2246.659 feet or 684.783 meters (T-2)

**LHT 1072** (TVA, 1938; Macon County, North Carolina)

Located 12.9 miles northwest of Franklin, via State Highway 28, Iotla-Parrish Gap Road, Burnington Road, 9.6 miles southwest of U. S. Post Office Stiles, 1.8 miles west of Mt. Sinal Church, on southwest side of road, at first hairpin curve going up to Burnington Gap, northwest of intersection of road going up Burnington Creek, 52 feet from center line of gap road at intersection, 4 feet above road at intersection. Station is 4.5 feet N 65° W from 5-inch double black oak trees, 14.7 feet S 40° E from 12-inch poplar tree, and 39.5 feet N 20° E from 6-inch forked maple tree. A standard TVA tablet stamped "LHT 1072 1939" and set in concrete monument. Steel post with control marker sign set 1 foot southwest of monument. NOTE: Monument in an area subject to silting. Has been covered as much as 6 inches. ELEVATION: 2661.809 feet or 811.321 meters (T-2)

**LHT 1073** (TVA, 1938; Macon County, North Carolina)

Located 13.7 miles northwest of Franklin, via State Highway 28, Iotla-Parrish Gap Road, Burnington Road, 10.4 miles southwest of U. S. Post Office Stiles, 2.7 miles northwest of Mt. Sinal Church, on north side of abandoned road at northwest point of sharp curve, where abandoned road crosses Burnington Creek going up to Burnington Gap on left bank of creek, just east of log road going up right bank of creek, about 40 feet north of intersection of road up creek and gap road at switchback of gap road about 6 feet above creek level. Station is 32.0 feet S 35° W from 36-inch spruce pine tree, 25.0 feet N 20° W from center line road and Burnington Creek, and 44.0 feet N 75° W from center line road and small pole bridge. A standard TVA tablet stamped "LHT 1073 1939" and set in concrete monument, flush with ground. Steel post with control marker sign set 1 foot north of monument. ELEVATION: 3192.950 feet or 973.213 meters (T-2)

**LHT 1074** (TVA, 1938; Macon County, North Carolina)

Located 14.5 miles northwest of courthouse Franklin, via State Highway 28, Iotla-Parrish Gap Road, Burnington Gap Road, 0.5 mile southeast of Burnington Gap, on property of Nantahala National Forest. Station is on south side of road, right bank of drain 145 feet east of point of sharp curve where road crosses Creek least time going up mountain, about 4 feet above elevation of road, and 10 feet from center line of road. Station is 54.5 feet N 60° E from 20-inch red oak tree, 10.0 feet S 30° E from center line of road, 16.0 feet south from 6-inch maple, standing across old road, and 5.7 feet due north from 4-inch birch tree (slope chain). A standard TVA tablet stamped "LHT 1074 1939" and set horizontally in rock outcrop. Steel post with control marker sign set 2.5 feet northeast of monument. ELEVATION: 3796.177 feet or 1157.077 meters (T-2)

**LHT 1075** (TVA, 1938; Macon County, North Carolina)

Located 14.3 miles southeast of Nantahala, 2.3 miles east of Kyle, on Burnington Gap Road. Station is 1.0 mile west of Burnington Gap on north side of road, 35 feet from center line of road near east end of grown-up clearing, 40 feet northeast from intersection of old log road leading up creek, 150 feet northeast of 24-inch leaning tree (spruce) which stands at edge of clearing on south side road, 30.8 feet northwest of north end of 16-inch CGIP which is in flat at foot of hill. Station is 80.2 feet due west from 12-inch white oak tree at edge of road, 28.6 feet due east from 6-inch white oak tree, and 35.0 feet north from center line of road. A standard TVA tablet stamped "LHT 1075 1939" and set in concrete monument, flush with the ground. Steel post with control marker sign set 1 foot north of monument. ELEVATION: 3849.917 feet or 1173.457 meters (T-2)

**LHT 1076** (TVA, 1938; Macon County, North Carolina)

Located 13.6 miles southeast of Nantahala, 1.6 miles east of Kyle, on Burnington Gap Road, on property of Camp Holloway. Station is 1.7 miles west of Burnington Gap, set on north side of road, on left bank of Ben Creek, 158 feet downstream from small wood bridge, 300 feet west of small house, 3 feet above road, about flush with ground, side yard of Camp Holloway. Station is 13.0 feet west of south corner of Holloway's house, 51.0 feet southwest of 10-inch poplar, and 19.0 feet north from center line of Burnington Gap Road. A standard TVA tablet stamped "LHT 1076 1939" and set in concrete monument. Steel post with control marker sign set 2.0 feet north of monument. ELEVATION: 3517.473 feet or 1072.128 meters (T-2)

**LHT 1077** (TVA, 1938; Macon County, North Carolina)

Located 12.7 miles southeast of Nantahala, 0.7 mile east of Kyle, on Burnington Gap road. Station is 2.6 miles west of Burnington Gap, set in south side of road, 0.1 mile east of John Pendergrass house, just east of



Y-log road intersection southeast, 75 feet northeast of remains of pole bridge on log road over Cold Spring Creek, 17.5 feet from center line of Burnington Gap Road, about same elevation as road. Station is 17.5 feet N 40° W of 12-inch poplar, 23.0 feet N 70° W of 40-inch chestnut stump, and 40.7 feet S 20° E of 12-inch hemlock across road. A standard TVA tablet stamped "LRT 1077 1939" and set in concrete monument, flush with the ground. Steel post with control marker sign set 1 foot southeast of monument.

NOTE: Mark in area subject to silting; has been covered by 1 foot of silt.  
ELEVATION: 3267.851 feet or 996.043 meters (T-2)

#### LR 14 (TVA, 1937; Cherokee County, North Carolina)

To reach from Andrews, drive 5.7 miles east from Andrews Post Office on U. S. Route 19 to Rhodo Station, Southern Railway, Murphy Branch, then turn right on dirt road and drive 0.7 mile to small mill building on right, on property of T. A. Dockery. Take trail up ridge to left. At top go to right to top of knob approximately 350 feet. Station is 16.34 feet N 70° E to 2-inch pine, 18.92 feet S 27° E to 12-inch swamp oak, and 10.60 feet S 68° W to 14-inch swamp oak. Station is a 1/2-inch iron pipe on top of ridge extending about 8 inches above ground and stamped "TVA LR 14".

GEODETIC POSITION: Lat. = 35°13'15.60"; Long. = 83°44'23.61" (T-4)

To Station	Azimuth	Back Azimuth	Log Meters	Miles
Big Stamp	37°48'52"	217°46'11"	4.062666	7.2
1501 D2 Flag	147 06 26	327 05 43	3.540076	2.2
LR 9 Flag	158 58 03	338 57 41	3.419696	1.6
Bushnell #13 Flag	234 33 16	54 35 22	3.828409	4.2

ELEVATION: 2826 feet (T-5)

#### LR 15 (TVA, 1937; Cherokee County, North Carolina)

To reach from Andrews, drive 5.7 miles east on U. S. Route 19 to Rhodo Station, thence south on dirt road 0.6 mile to residence of T. A. Dockery. Go up nose of ridge to left to top. Point is on top of ridge and at west end of ridge. Station is 14.20 feet N 72° E to 6-inch pine, 11.17 feet S 50° E to 10-inch pine, and 8.00 feet S 84° W to 10-inch oak. Station is a 1/2-inch iron pipe stamped "TVA LR 15".

GEODETIC POSITION: Lat. = 35°13'06.73"; Long. = 83°44'33.19" (T-4)

To Station	Azimuth	Back Azimuth	Log Meters	Miles
Havensville #2	12°58'03"	192°57'44"	3.577620	2.3
McDaniel Flag	96 10 59	276 01 51	4.383128	15.0
LR 9 Signal	165 35 00	345 34 44	3.450045	17.5
Bushnell #13	233 53 19	53 55 30	3.850795	4.4

ELEVATION: 2712 feet (T-5)

#### LR 395 (TVA, 1939; Macon County, North Carolina)

Located about 6 miles northwest of Franklin. To reach from Nantahala railroad station, drive south 9.4 miles on gravel road to forks (2 miles north of Kyle Post Office). Turn on dirt road east 2.8 miles to farm road to right at Otter Creek ford. Follow road up Owenby Cove 1.7 miles to trail to right. Walk up trail and ridge to top of cleared hill. Station is in pasture 100 feet south of top of knob. Station is 27.3 feet S 60° W of fence post, 15.3 feet S 25° W of fence post, and 17.8 feet S 40° E of fence post. Station is a 1- by 1-inch angle iron stamped "TVA LR 395 1939".

GRID POSITION (North Carolina): X = 631,781.8; Y = 576,086.2 (T-4)

ELEVATION: 4337 feet (T-5)

#### M 54 (USCGS, 1933; Cherokee County, North Carolina)

Located in Topton, 14.5 feet east of southeast corner of Topton Depot, 55.5 feet southeast of south rail of main track, 1 foot above top of rail, and 55 feet northwest of center line of highway. A standard USCGS disk stamped "M 54 1933" and set in top of concrete post 8 inches below grade. Steel post with control marker sign set 0.8 feet northwest of monument.

ELEVATION: 2598.587 feet or 792.051 meters (C-2)

#### MS 773 (TVA, 1942; Macon County, North Carolina)

Located in the northeast corner of Quadrangle 159 NE. To reach from intersection of State Highway 28 and U. S. Highway 23 at Franklin, drive north on State Highway 28, 2.7 miles, turning left onto T-road and going 2.1 miles to Y-road. Turn left and go 3.0 miles to Y-road. Turn right on Y-road and go 0.85 mile to T-road left. Follow T-road 0.2 mile to Y-road. Turn left and drive 2.55 miles west up Younce Creek (last mile along log road in woods) parking car at log bridge that is impassable. Proceed on foot west along log road up hollow 1/2 mile, keeping to right. Take right fork of hollow at this point and climb along log road for 1/4 mile. Turn right and climb due north up very steep ridge side 1/4 mile to top of ridge, making certain to arrive on ridge center line well east and to the right of high top west or left of intersection of ridges. Turn right once on center line of ridge and walk down along center line east for 1/4 miles to old mica mines, 185 feet east of this point, just east of slight high top on ridge. A 1- by 1-inch angle iron stamped "MS 773".

Reference Mark 1: 7.92 feet S 38° E to nail and washer in 4-inch chestnut oak.

Reference Mark 2: 4.61 feet N 53° E to nail and washer in 12-inch oak.

Reference Mark 3: 9.31 feet S 70° W to nail and washer in 3-inch red oak.

GRID POSITION (North Carolina): X = 648,994.7; Y = 573,328.5 (T-4)

ELEVATION: 3942 feet (T-5)

#### MS 774 (TVA, 1942; Macon County, North Carolina)

Located in the northeast corner of Quadrangle 159 NE. To reach from intersection of U. S. Highway 23 and State Highway 28 at Franklin, drive north on State Highway 28 for 2.7 miles. Turn left on T-road and go 5.0 miles, following main road to Burnington school and T-road left at bridge. Turn left onto T-road and go 2.6 miles to T-road left. Follow T-road 2.6 miles to Y-road intersection. Turn left and go 1.05 miles to road intersection. Keep to left, driving southwest up branch along road for 0.75 mile to creek and road intersection. Park car and take road south up mountain on foot for approximately 0.8 mile to point where road crosses creek in center line of hollow. Here road has been changed causing Y-road intersection. Take left fork (unused) and climb 100 feet to junction of cut-off and main road. Walk east along main road for 35 feet. Here 8 feet south of center line of main road driven in clump of laurel roots is station. A 1- by 1-inch angle iron stamped "MS 774".

Reference Mark 1: 7.65 feet S 30° E to tack and washer in 8-inch dead chestnut.

Reference Mark 2: 14.38 feet N 80° W to tack and washer in 10-inch red oak.

Reference Mark 3: 20.40 feet N 53° E to tack and washer in 8-inch red oak.

GRID POSITION (North Carolina): X = 648,879.1; Y = 558,113.4 (T-4)

ELEVATION: 2979 feet (T-5)

#### NC 529 AZ MK (NGS, 1935; Cherokee County, North Carolina)

Located at Rhodo, about 5-1/4 miles east of Andrews along U. S. Highway 19, 445 yards northeast of NC-529, 10 feet southwest of southwest corner of Rhodo railroad station, 5 feet below elevation of highway, 48 feet northwest of center line of highway, and 12.7 feet northwest of center line of railroad track. Station is 11 feet N 42° E of a sign post and 32 feet N 34° W of telephone pole #3535. A standard monument with bronze tablet marked "N C" and stamped "529".

GRID POSITION (North Carolina): X = 582,144.9; Y = 569,106.0 (S-3)

Grid Azimuth to NC 529 (distance 1374.4 feet): 40°08'20".

#### NC 530 (NGS, 1935; Cherokee County, North Carolina)

Located at Topton about 250 yards southwest of the boundary corner of Cherokee, Graham, and Macon Counties, 71.0 feet northwest of north corner of old residence of Boone Wright (deceased), 78.5 feet west of west corner of former Topton post office and across the Southern Railroad track from the former Topton Post Office, about 150 feet northwest from center of State Highway 10, 12.1 feet northwest from railroad track, and 20.6 feet southeast of power line guy pole. A 3-inch tablet stamped "N C 530" set 10-inch round concrete monument set 3 inches below surface. Steel post with control marker sign set 1 foot northwest of monument.

GEODETIC POSITION: Lat. = 35°14'47.104"; Long. = 83°42'14.973" (S-3)

GRID POSITION (North Carolina): X = 596,007.0; Y = 577,867.8 (S-3)

Grid Azimuth to NC 530 AZ MK (8.8 feet southeast of center of side track, 129.2 feet southwest of nose of railroad frog, 24.7 feet north of center of north one of two 6-inch steel pipes used as culvert under siding, and about 375 feet southwest of overhead highway bridge. A concrete monument with 3-inch round bronze cap stamped "NC 530". Steel post with control marker sign set 1 foot southeast of monument.) (distance 477.7 feet): 209°05'10".

#### NR 6 (USED, 1928; Macon County, North Carolina)

Located at Mile 16, Nantahala River, right bank, 1.1 miles upstream from mouth of White Oak Creek, 80 feet southwest of intersection of river road, and access to old ford at end of trail leading from ford access to river. A chiseled cross at water's edge on top of a 6- by 6-foot sloping rock outcrop standing on edge.

NOTE: Searched for but not recovered, August 1957.

ELEVATION: 2617.6 feet (E-4)

#### NR 7 (USED, 1928; Macon County, North Carolina)

Located at Mile 17, Nantahala River, right bank, just below shoal, 240 feet upstream from mouth of Beech Cove Branch, about 90 feet N 25° W from telephone pole which is about 270 feet southwest of masonry culvert over Beech Cove and stands on northwest edge of road, 35.5 feet northwest of 12-inch holly tree and on top and in middle of shoreward part of split rock outcrop. A chiseled cross on rock about middle at water's edge.

ELEVATION: 2676.9 feet (E-4)

#### NR 22 (USED, 1928; Clay County, North Carolina)

Located at Mile 32, Nantahala River, left bank, on rock 25 feet from water's edge, at railroad bridge across Nantahala River. Bridge is 400 feet upstream from mouth of Roaring Fork Creek. A chiseled circle on rock.

NOTE: Bench mark is near head of Nantahala Lake; only access is by boat other than logging road across river.

ELEVATION: 3082.6 feet (E-4)

#### NY 76 (TVA, 1953; Macon County, North Carolina)

Located near Weatherman's Bald, about 6.0 miles southeast from Andrews. To reach from Andrews, go 1.1 miles east along U. S. Highway 19. Take right for 5.1 miles to T-road right, take T-road right for 1.1 miles to Old Road Gap. Leave car and walk up Forest Service Trail to top of mountain known as County Corners, intersection of Clay, Macon and Cherokee Counties. Take main trail east, approximately 1,000 feet and left to top of ridge. Station is on the north one of two small tops. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 11.7 feet S 85° W to nail and blaze in 4-inch oak tree.

Reference Mark 2: 12.3 feet S 22° W to nail and blaze in 5-inch oak tree.

Reference Mark 3: 5.8 feet N 65° E to nail and blaze in 6-inch oak tree.

GRID POSITION (North Carolina): X = 584,625.5; Y = 544,973.7 (T-4)

ELEVATION: 5149 feet (T-5)

#### NY 77 (TVA, 1954; Clay County, North Carolina)

Located on Quasitsee Mountain near Potrock Bald. To reach from Andrews, go 1.1 miles east on U. S. Highway 19, take right and go 5.1 miles, take right and go 1.1 miles to Old Road Gap. Leave car and go Forest Service Trail approximately 2.5 miles to top of mountain known as County Corners. Follow main painted trail southeast along side of mountain approximately 1.5 miles to a bare field in saddle. From this saddle, follow main trail 1.0 miles south to top of mountain known as Potrock Bald. Station is approximately 250 feet south from highest point. Station is 20 feet southeast of trail on bare spot of southeast end of Bald. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 8.90 feet S 70° W to nail in 3-inch oak tree.

Reference Mark 2: 37.8 feet N 10° W to nail in 3-inch oak tree.

Reference Mark 3: 40.1 feet S 75° E to nail in 4-inch oak tree.

GRID POSITION (North Carolina): X = 584,795.4; Y = 537,368.3 (T-4)

ELEVATION: 5215 feet (T-5)

#### NY 78 (TVA, 1954; Clay County, North Carolina)

Located on Quasitsee Mountain near Potrock Bald. To reach from Andrews, go 1.1 miles east on U. S. Highway 19, turn right 5.1 miles, turn right 1.1 miles to Old Road Gap. Leave car and walk Forest Service Trail approximately 5.0 miles to Potrock Bald. Keep on painted trail about 4000 feet to northeast end of top and station in center line of trail. Station is a 1- by 1-inch angle iron.

Reference Mark 1: 18.2 feet S 70° E to nail in 12-inch chestnut tree.

Reference Mark 2: 16.9 feet N 25° E to nail in 6-inch oak tree.

Reference Mark 3: 44.5 feet S 60° W to nail in 6-inch white oak tree.

GRID POSITION (North Carolina): X = 581,512.1; Y = 536,019.7 (T-4)

ELEVATION: 5014 feet (T-5)

#### P 83 (TVA, 1939; Macon County, North Carolina)

Located 2.5 miles east of Burnington Gap, 1.5 miles west of Sinai Church, midway between two creek crossings, 150 feet from each, 18 feet east of center line of road, directly across road and 8.6 feet northeast from 48-inch hemlock stump. A chiseled square on rock outcrop and painted "TBM P 83".

ELEVATION: 2492.193 feet or 759.622 meters (T-2)



**STANDING INDIAN** (USC&GS, 1933; Macon-Clay Counties, North Carolina)

Located on summit of Standing Indian Mountain in Yellow Mountain Range, about 16 miles airline and 25 miles by road east of Hayesville, 13-1/2 miles southwest of Franklin, and 3 miles north of North Carolina-Georgia State line.

To reach from Franklin, go west about 15 miles on Route 28 to Wallace Gap, continue 6 miles (or about 1 mile beyond Black Gap), turn left onto side road, proceed 5.5 miles to Deep Gap and end of truck travel. Follow trail up ridge to left about 2 miles (900 feet elevation) to top. Arrow near top points to spring. Station is on north side of summit, 10 feet north of U. S. Forestry Service fire lookout tower, and about opposite middle of tower wall. Station mark is a standard disk triangulation station mark set in concrete in a depression in outcropping bedrock.

Reference marks 1 and 2 are standard disk reference marks with the arrows pointing toward the station, each set in concrete in a depression in outcropping bedrock. Reference Mark 1 is on backbone of ridge, 60 feet northwest of fire lookout tower, and 15.561 meters (51.05 feet) from station in geodetic azimuth 155°59'.

Reference Mark 2 is in front of entrance to and 5 feet east of fire tower and 4.763 meters (15.63 feet) from station in geodetic azimuth 316°15'. Azimuth Mark (Reference Mark 3) is a standard disk reference mark with the arrow pointing toward the station wedged in a drill hole in outcropping bedrock. It is 2.8 miles from U. S. Route 64 along road leading to station, 32 feet north of 12-inch chestnut tree with triangular blaze, 40.9 feet north of center line of road, 20.2 feet west of 14-inch chestnut-oak tree, 16.3 feet southwest of 6-inch hickory tree, and 6 inches from 6-inch maple tree with triangular blaze, and 2 miles from station.

NOTE: It was reported in 1956 that station was now accessible with some difficulties in a four-wheel-drive vehicle. In 1957 it was reported the station cap had been beaten off leaving only that portion showing triangle. Reference Marks were found in good condition.

GEODETIC POSITION: Lat. = 35°02'07.127"; Long. = 83°32'17.223" (C-1)

To Station	Geodetic Azimuth (From south)	Distance Log Meters	Meters
Lance	82°12'54.23"	4.6328049	42,934.35
Laurel	123 23 40.88	4.7230262	52,847.71
Tatham (USGS)	136 30 12.70	4.5313930	33,993.27
Cheoah (USGS)	158 01 56.26	4.5406119	34,722.58
Rattlesnake Cliff	197 20 09.87	4.6089916	40,643.55
Hogback Mountain	244 38 04.17	4.5006714	31,671.70
Rabun 2	289 32 29.52	4.3633040	23,083.62
Second-order			
Hayesville	90°38'46.4"	4.404549	25,383.4
Wayah	172 40 51.6	4.209619	16,203.9
Franklin	219 27 53.5	4.333719	21,563.5
Third-order			
Azimuth Mark (RM No. 3)	143°14'19.7"		
Wayah Bald Fire Tower	172 39 46.5	4.209588	16,202.7
GRID POSITION (North Carolina): X = 642,017.35; Y = 498,812.82 (C-1)			
Grid Azimuth to Azimuth Mark (RM 3): 145°51'29".			
GRID POSITION (Georgia West): X = 688,157.20; Y = 1,832,359.44 (C-1)			
ELEVATION: 5499.41 feet (G-3)			

**STANDING INDIAN TOWER** (USFS, ? ; Macon County, North Carolina)

Located on summit of Standing Indian Mountain in Yellow Mountain Range, about 16 miles airline and 25 miles by road east of Hayesville, 13-1/2 miles southwest of Franklin, and 3 miles north of North Carolina-Georgia State line.

To reach from Franklin, go west about 15 miles on Route 28 to Wallace Gap, continue 6 miles (or about 1 mile beyond Black Gap), turn left onto side road, proceed 5.5 miles to Deep Gap and end of truck travel. Follow trail up ridge to left about 2 miles (900 feet elevation) to top. Arrow near top points to spring. Station is lookout tower.

GRID POSITION (North Carolina): X = 642,016.3; Y = 498,797.5 (T-4)

GRID POSITION (Georgia West): X = 688,157.0; Y = 1,832,344.1 (T-4)

**TRM (Nantahala Dam)** (TVA, 1944; Macon County, North Carolina)

Located in middle of north window on east side of diversion tunnel hoisthouse, N. P. & L. Co., top of Nantahala Dam. A chiseled square. ELEVATION: 3034.81 feet (T-3)

**TUSQUITEE** (USGS, 1933; Clay County, North Carolina)

Located 4-1/4 miles south and 5-1/4 miles east from Andrews, at the junction of the Valley River Mountains, with the Tusquitee Mountains. Station is at the highest point of the open space forming the top of Tusquitee Bald. Station is about 1 mile southeast of the Cherokee-Macon-Clay county corner. It is about 600 feet northeast from a point on the main trail where it crosses over a grassy gap. There is a very good spring along the trail on the west slope, and just under the grassy gap mentioned above. Station can be easily reached by auto road from Andrews to the Old Road Gap, thence by F. S. trail via the spring and into the grassy gap previously mentioned, thence by small trail along the 500 feet northeast to station. A standard tablet in top of 6- by 6-inch stone set 2 feet in ground.

GEODETIC POSITION: Lat. = 35°08'30.422"; Long. = 83°43'36.461" (G-3)

To Station	Geodetic Azimuths	Distances	Log Meters	Meters
	Azimuth	Back Azimuth		
Peach Tree	83°04'14.2"	262°59'28.3"	4.102879	7.9
Tatham	154 05 23.8	334 03 01.8	4.153878	8.9
Cheoah	191 33 16.2	11 34 51.3	4.318125	12.9
Standing Indian	304 24 55.3	124 31 25.7	4.319524	13.0

**WAYAH** (USC&GS, 1933; Macon County, North Carolina)

Located on summit of Wayah Bald, in Nantahala Mountains, about 10 miles airline and 22 miles by road due west of Franklin.

To reach from junction of Highways 28 and 23 at Franklin, go west 4.5 miles on Highway 28 to sign "Wayah Bald 3 miles", and follow this road to summit and station site. Station is 4.4 feet north of east corner of United States Forest Service lookout tower (a rock tower built around 1952). Station mark is a standard disk triangulation station mark set in concrete in a depression in outcropping bedrock.

In 1952 it was reported:

Reference Mark 1 was not found.

Reference Mark 2 had been moved to south end of rock retaining wall about 335' in geodetic azimuth from the station.

Reference Mark 3 is a standard disk reference mark with the arrow pointing toward the station wedged in a drill hole in outcropping bedrock, along top of ridge, about 40 feet southeast of road leading to station and 120 feet from station in geodetic azimuth 36°06'.

GEODETIC POSITION: Lat. = 35°10'48.653"; Long. = 83°33'38.806 (C-2)

To Station	Geodetic Azimuth (From south)	Distance Log Meters	Meters
Second-order			
Cheoah (USGS)	145°52'36.1"	4.289617	19,481.3
Rattlesnake Cliff	211 56 27.1	4.427873	26,783.9
Franklin	267 53 49.2	4.198124	15,780.6
Hogback Mountain	274 39 08.2	4.488333	30,784.6
Standing Indian	352 40 04.7	4.209619	16,203.9

Third-order  
Azimuth Mark (RM 3) 36°05'40.1"  
Standing Indian Fire Tower 352 40 22 4.209731 16,208.1  
GRID POSITION (North Carolina): X = 637,662.12; Y = 551,789.77 (C-2)  
Grid Azimuth to Standing Indian Fire Tower: 355°18'20".  
Grid Azimuth to Azimuth Mark (RM 3): 38°43'36.6".  
ELEVATION: 5342 feet (T-5)

**WAYAH FIRE TOWER** (USGS, 1933; Macon County, North Carolina)

Station is the U. S. Forest Service fire tower on the summit of Wayah Bald, which is a high peak in the Nantahala Mountains, about 1 mile north and 5.5 miles east of the village of Aquone. Station is a USFS standard tablet set in concrete post and centered under fire tower.

Report on Condition (TVA, 1952): Fire tower has been replaced by a low stone tower. Bronze tablet under old fire tower was not found. Unable to determine just how old center line and new center line are to the same but believed to be close.

GEODETIC POSITION: Lat. = 35°10'48.593"; Long. = 83°33'39.000" (C-3)

To Station	Geodetic Azimuth (From south)	Distance Log Meters	Meters
Third-order			
Cheoah (USGS)	145°53'29.8"	4.289589	19,480.0
Rattlesnake Cliff	211 56 51.6	4.427941	26,788.0
Standing Indian	352 38 59.3	4.209588	16,202.7
GRID POSITION (North Carolina): X = 637,645.75; Y = 551,784.45 (C-3)			
ELEVATION: (Top of concrete floor) 5359 feet (T-5)			

**4 WC 17** (NCHD, 1965; Cherokee County, North Carolina)

Located about 5.2 miles east of Andrews and 2.3 miles southwest of Topton. To reach station, proceed from the intersection of U. S. Highways 19 and 129 and SR 1388 in Andrews, east along U. S. Highways 19 and 129 for 5.2 miles to SR 1501 in Rhodo. Continue on U. S. Highways 19 and 129 for 0.8 mile to the station on north side of road at curve. The station is 26.25 feet N 35° W of edge of pavement. A standard NCHS bronze disk stamped "4 WC 17" and set in the top of a concrete post, projecting 0.40 foot above the ground.

Reference Mark 1: 3.51 feet N 56° W to P.K. nail in 3-inch maple.

Reference Mark 2: 35.13 feet N 40° E to railroad spike in 5-inch mimosa.

GRID POSITION (North Carolina): X = 584,925.4; Y = 572,102.3 (Hwy.-3)  
Grid Azimuth to BIG STAMP FIRE TOWER - Apex of cabin roof (distance 8.0 miles): 37°49'00".

ELEVATION: 2215.236 feet (Hwy.-2)

**4 WC 18** (NCHD, 1965; Cherokee County, North Carolina)

Located about 6.9 miles northeast of Andrews along U. S. Highways 19 and 129. To reach station, proceed from the intersection of U. S. Highways 19 and 129 and SR 1388 in Andrews, east along U. S. Highways 19 and 129 for 7.9 miles to SR 1394. Continue on U. S. Highways 19 and 129 for 0.2 mile to the station on northwest side of road on a fill. The station is 11.24 feet N 42° W of edge of pavement. A standard NCHS bronze disk stamped "4 WC 18" and set in the top of a concrete post, projecting 0.40 foot above the ground.

Reference Mark 1: 24.03 feet N 10° W to railroad spike in 8-inch mimosa.

Reference Mark 2: 116.70 feet N 25° E to P.K. nail in 8-inch mimosa.

GRID POSITION (North Carolina): X = 593,843.6; Y = 575,193.5 (Hwy.-3)  
Grid Azimuth to BIG STAMP FIRE TOWER - Apex of cabin roof (distance 9.5 miles): 43°35'40".

ELEVATION: 2555.313 feet (Hwy.-2)

**4 WC 19** (NCHD, 1965; Cherokee County, North Carolina)

Located about 7.6 miles northeast of Andrews along U. S. Highways 19 and 129. To reach station, proceed from the intersection of U. S. Highways 19 and 129 and SR 1388 in Andrews, east along U. S. Highways 19 and 129 for 8.80 miles to SR 1395 in Topton. Continue along U. S. Highways 19 and 129 for 0.15 mile to the station in front of Topton Baptist Church. The station is 17.10 feet S 62° E of edge of pavement, S 30° E of corner of church. A standard NCHS bronze disk stamped "4 WC 19" and set in the top of a concrete post, flush with the ground.

Reference Mark 1: 6.85 feet N 40° E to chiseled square in bottom step of church.

Reference Mark 2: 76.24 feet S 16° E to P.K. nail in 4-inch maple.

GRID POSITION (North Carolina): X = 596,283.7; Y = 578,113.7 (Hwy.-3)  
Grid Azimuth to BIG STAMP FIRE TOWER - Apex of cabin roof (distance 10.0 miles): 43°37'50".

ELEVATION: 2657.916 feet (Hwy.-2)