

SURVEY CONTROL DATA IN QUADRANGLE 166

- BM 1** (USGS, 1928; Swain County, North Carolina)
Located at Bryson City, beneath large window in the northwest corner of D. F. Collins' brick store, 80 feet south of the southwest corner of county courthouse. A copper bolt set in middle of stone sill.
ELEVATION: 1738.80 feet (G-3)
- BM 144** (USC&GS, 1932; Jackson County, North Carolina)
Located 9 miles north along U. S. Highway 23 from Franklin, at a horseshoe curve with the points of the shoe running south, about 35 feet north of the northernmost portion of the center line of the road, and in a cut, on the northernmost corner of a large prominent rock. A chiseled circle.
ELEVATION: 3127.120 feet or 953.148 meters (C-1)
- BM 1675.0** (USGS, 1928; Swain County, North Carolina)
Located 3.8 miles northwest along the Southern Railway from Bryson City, about 950 feet east of milepost 68, opposite trestle T 67.8 over Peachtree Creek, on former State Highway 288, at a concrete culvert over Peachtree Creek on the east end of the north coping and 8 feet north of the center line of the highway. A chiseled square.
NOTE: Submerged at times by Fontana Reservoir; usable when reservoir is low.
ELEVATION: 1,674.760 feet or 510.468 meters (C-1)
- BM 1720.7** (USGS, 1928; Swain County, North Carolina)
Located 1.9 miles west along the Southern Railway from Bryson City, 0.2 mile east of milepost 66, about 60 feet north of the north rail at the west end of a rock cut, about 15 feet north of the center line of State Highway 288, and about 3 feet higher than the highway, on a rock ledge. A chiseled square, surrounded by the painted letters "BM 1720.7".
ELEVATION: 1,720.693 feet or 524.456 meters (C-1)
- BM 1724** (USGS, 1928; Swain County, North Carolina)
Located 1.5 miles west along the Southern Railway from Bryson City 720 feet east of a yard-limit sign, opposite a rock cut on State Highway 288, about 50 feet north of Tuckasegee River, and about 7 feet south of the south rail, on a large cone-shaped rock. A chiseled point.
ELEVATION: 1,721.325 feet or 524.661 meters (C-1)
- BM 1743.7** (USGS, 1928; Swain County, North Carolina)
Located 0.4 mile east along the Southern Railway from Bryson City, at bridge T 63.6 over Deep Creek, on the north end of the east abutment, 6 feet north of the north rail, and 1 foot lower than the track. A chiseled square, surrounded by the painted letters "BM 1743.7".
ELEVATION: 1,743.707 feet or 531.483 meters (C-1)
- BM 1761.1** (USGS, 1928; Swain County, North Carolina)
Located 0.8 mile north of mouth of Deep Creek, 1 mile north of Bryson City, 170 feet east of road, at north edge of private road east, and in root of persimmon tree. A copper nail and washer, painted "BM 1761.1".
ELEVATION: 1760.76 feet (G-3)
- BM 1792** (USGS, 1928; Swain County, North Carolina)
Located 2.5 miles northeast along State Highway 28 from Bryson City and 0.3 mile east of railroad crossing, south end of culvert opposite road fork north. Square cut, painted "BM 1792".
ELEVATION: 1792.96 feet (G-3)
- BM 1792.4** (USGS, 1928; Swain County, North Carolina)
Located 1.9 miles north of mouth of Deep Creek, 70 feet northeast of Deep Creek Baptist Church, 30 feet east of road, 10 feet north of foot bridge over Deep Creek and in the base of east side of 20-inch poplar tree. A copper nail and washer, painted on tree "USBM 1792.4".
ELEVATION: 1792.06 feet (G-3)
- BM 1814.8** (USGS, 1928; Swain County, North Carolina)
Located 3.7 miles northeast along State Highway 28 from Bryson City, 450 feet west of steel railroad bridge over Tuckasegee River, 10 feet west of highway, and on boulder. A drill hole, painted "BM 1814.8".
ELEVATION: 1814.90 feet (G-3)
- BM 1824.9** (USGS, 1928; Swain County, North Carolina)
Located 1.04 miles north of mouth of Lands Creek, 50 feet west of stream crossing, 20 feet north of trail fork through gate, on boulder. A chiseled square painted "USBM 1824.9".
ELEVATION: 1824.70 feet (G-3)
- BM 1832** (USGS, 1928; Swain County, North Carolina)
Located near Ela, 0.1 mile northeast of intersection of U.S. Highway 19 and State Highway 28, 80 feet northeast of road crossing, at trail north, and on boulder. A drill hole, painted "BM 1832".
ELEVATION: 1832.16 feet (G-3)
- BM 1840.9** (USGS, 1928; Swain County, North Carolina)
Located 1 mile north of Deep Creek Baptist Church, 2.9 miles north of mouth of Deep Creek, 250 feet south of bridge over Deep Creek, 20 feet east of road, in west root of 22-inch leaning oak tree. A spike, painted on tree "USBM 1840.9".
ELEVATION: 1840.62 feet (G-3)
- BM 1878.6** (USGS, 1928; Swain County, North Carolina)
Located 1.2 miles northeast along State Highway 28 from Ela, 30 feet west of abandoned track at road crossing, on apex of pointed boulder. A chiseled mark, painted "BM 1878.6".
ELEVATION: 1878.69 feet (G-3)
- BM 1884.6** (USGS, 1928; Swain County, North Carolina)
Located 3.2 miles north of mouth of Deep Creek, at forks of Indian Creek, 50 feet south of bridge over Indian Creek, 20 feet southwest of road forks, in trunk of poplar tree. A copper nail and washer, painted on tree "USBM 1884.6".
ELEVATION: 1884.30 feet (G-3)
- BM 1892.4** (USGS, 1928; Swain County, North Carolina)
Located 1.7 miles southwest of Cherokee, on State Highway 28, 10 feet west of highway at drain west, and on top of projecting ledge. A drill hole, painted "BM 1892.4".
ELEVATION: 1892.51 feet (G-3)
- BM 1899.5** (USGS, 1928; Swain County, North Carolina)
Located 2 miles southwest of Cherokee, on State Highway 28, 10 feet east of former railroad, and on boulder. A drill hole, painted "BM 1899.5".
ELEVATION: 1899.61 feet (G-3)
- BM 1907.5** (USGS, 1928; Swain County, North Carolina)
Located 1.06 miles north along road up Cooper Creek from State Highway 28, 225 feet south of road fork to residence of J. R. Wiggin, 5 feet southeast of road at bend, and in root of 20-inch beech tree. A copper nail and washer, painted "USBM 1907.5".
ELEVATION: 1907.61 feet (G-3)
- BM 1947.1** (USGS, 1928; Swain County, North Carolina)
Located 4.3 miles north of mouth of Deep Creek, 1.1 miles north of mouth of Indian Creek, 40 feet west of center of bridge over Deep Creek, 20 feet northwest of road, on rock ledge. A chiseled square, painted on ledge "USBM 1947.1".
ELEVATION: 1946.84 feet (G-3)
- BM 1959.8** (USGS, 1928; Swain County, North Carolina)
Located 0.96 mile north along State Highway 107 from Cherokee, on right bank of Oconaluftee River, 25 feet east of road, 5.5 feet east of the west end of dam, and on concrete wall. A chiseled square, painted "USBM 1959.8".
ELEVATION: 1960.02 feet (G-3)
- BM 1965.8** (USGS, 1928; Swain County, North Carolina)
Located 1.84 miles north of mouth of Lands Creek, 0.4 miles northeast of Rock Creek Church, 50 feet west of forks of road along creek, with main road, and in root of 8-inch hickory tree. A copper nail and washer, painted "USBM 1965.8".
ELEVATION: 1965.59 feet (G-3)
- BM 2017** (USGS, 1928; Jackson County, North Carolina)
Located 0.8 mile southeast of Cherokee, 10 feet south of road fork southwest, and on top of large boulder. A drill hole, painted "BM 2017".
ELEVATION: 2017.44 feet (G-3)
- BM 2017.3** (USGS, 1928; Swain County, North Carolina)
Located 5.1 miles north of mouth of Deep Creek, 2 miles north of mouth of Indian Creek, 450 feet west of ford, at south edge of road, on rock. A chiseled square, painted on tree "USBM 2017.3".
ELEVATION: 2017.01 feet (G-3)
- BM 2020.7** (USGS, 1928; Swain County, North Carolina)
Located 1 mile northeast of mouth of Indian Creek, 30 feet southwest of road fork northwest, 10 feet west of drain, in root of 14-inch oak tree. A copper nail and washer, painted "USBM 2020.7".
ELEVATION: 2020.83 feet (G-3)
- BM 2063.4** (USGS, 1928; Swain County, North Carolina)
Located 1.88 miles north along road up Cooper Creek from State Highway 28, 20 feet north of road fork south across creek, on rock ledge. A chiseled square, painted "USBM 2063.4".
ELEVATION: 2063.50 feet (G-3)
- BM 2075.7** (USGS, 1928; Jackson County, North Carolina)
Located 2.4 miles southeast of Cherokee, 30 feet south of Soco Creek, on the north edge of the road and in root of 30-inch walnut tree. A copper nail, painted "BM 2075.7".
ELEVATION: 2075.98 feet (G-3)
- BM 2260.6** (USGS, 1928; Swain County, North Carolina)
Located 2.1 miles northeast of mouth of Indian Creek, 700 feet west of Bill Stiles house, 8 feet north of road at point 10 feet west of small drain, in root of double walnut tree. A copper nail and washer, painted "USBM 2260.6".
ELEVATION: 2260.74 feet (G-3)
- BM 2354.6** (USGS, 1928; Swain County, North Carolina)
Located 3.4 miles northeast of the mouth of Lands Creek, 60 feet north of road fork east, 50 feet south of stream crossing, in edge of road, and on boulder, about 350 feet north of Bryson City Reservoir. A chiseled square, painted "USBM 2354.6".
ELEVATION: 2354.26 feet (G-3)
- BM 2571.0** (USGS, 1928; Swain County, North Carolina)
Located 1.6 miles north of Cooper Creek School and 3.8 miles northeast along Cooper Creek road from State Highway 28, 10 feet southwest of field road fork, 5 feet southeast of fence corner, on the west side of the road, and on a huge boulder. A chiseled square, painted "USBM 2571.0".
ELEVATION: 2570.95 feet (G-3)
- BM 2779.3** (USGS, 1928; Swain County, North Carolina)
Located 4.3 miles north of the mouth of Lands Creek, 4 miles (airline) northwest of Bryson City, 10 feet west of road fork east, south side of path to farmhouse, at north end of stone fence, and on boulder. A chiseled square, painted "USBM 2779.3".
ELEVATION: 2778.90 feet (G-3)
- BRYSOIN** (USC&GS, 1933; Swain County, North Carolina)
Located on grassy knoll on east side of Galbreth Branch Road, about 3.2 miles east-northeast of Bryson City. To reach from square in Bryson City, go east about 2.0 miles on U.S. Highway 19 to bridge across Tuckasegee River, continue 0.6 mile on U.S. Highway 19 to dairy on right and sign "Galbreth Br. Road", turn left, and follow dirt road 0.9 mile to station site. Station is about 50 yards east of road, and 19.5 feet southeast of plain stone tombstone which is encircled by rectangular pole fence. Surface mark is a standard bronze tablet set in the top of a square block or post of concrete. Underground mark is a block of concrete 3 feet below the ground containing at the center of its upper surface a standard bronze tablet.
Reference marks are standard bronze tablets, with the arrows pointing toward the station, each set at the center of the top of a square block or post of concrete.

Reference Mark 1 (Azimuth Mark) is 15 feet east of center line of road, about 50 yards south along road from cottage on west side of road, and about 150 yards from station.

Reference Mark 2 is on south edge of grassy knoll, and 14.982 meters (49.15 feet) from station in geodetic azimuth $41^{\circ}03'$

Reference Mark 3 is toward nearest part of road, and 20.350 meters (66.76 feet) from station in geodetic azimuth $144^{\circ}39'$.

GEODETIC POSITION: Lat. = $35^{\circ}26'49.377''$; Long. = $83^{\circ}24'21.419''$ (C-2)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Waterrock (USGS)	$265^{\circ}30'04.9''$	$85^{\circ}39'24.9''$	4.387706	15.2
Rattlesnake Cliff	$359^{\circ}09'10.4''$	$179^{\circ}09'12.7''$	3.838249	4.3
Azimuth Mark, RM 1	$33^{\circ}53'34.9''$			

GRID POSITION (N.C.): X = 688,189.27; Y = 646,729.45 (C-2)

Grid Azimuth to Azimuth Mark, RM 1: $36^{\circ}26'09.6''$

ELEVATION: 2053 feet (T-5)

BRITSON 1 A (USGS, 1934; Swain County, North Carolina)

Located on west end of wooded top 1.3 miles east of Needmore and 4.8 miles southeast of Almond, on property owned by Robert Marr. To reach from Almond take U.S. Highway 19 north 0.5 mile, turn right and proceed 3.7 miles, thence right 4.3 miles to home of D. A. DeHart, follow trail south to top of ridge and thence west to station. Station is drill hole in center of chiseled triangle in rock under signal in 22-inch hickory tree.

GEODETIC POSITION: Lat. = $35^{\circ}19'45.310''$; Long. = $83^{\circ}29'49.113''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Copper	$28^{\circ}58'04.3''$	$208^{\circ}59'53.7''$	4.071658	7.3
Wesser Bald	$51^{\circ}37'01.3''$	$231^{\circ}34'13.9''$	3.970262	5.8
Round Top	$126^{\circ}09'16.1''$	$306^{\circ}05'58.0''$	4.029349	6.6

BRITSON 6 (USGS, 1934; Swain-Macon Counties, North Carolina)

Located on top of Raven Mountain, 0.5 miles (airline) northeast of Leatherman Gap. To reach from Leatherman Gap follow trail northeast up mountain to extreme top of mountain. Station mark is a 1-inch drill hole in rock set in place under 14-inch oak tree.

GEODETIC POSITION: Lat. = $35^{\circ}19'40.883''$; Long. = $83^{\circ}21'39.721''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Peak	$79^{\circ}01'36.9''$	$258^{\circ}59'42.3''$	3.707559	3.2
Covee 2	$274^{\circ}25'47.6''$	$94^{\circ}26'41.5''$	3.373293	1.5
Watauga	$329^{\circ}58'33.4''$	$150^{\circ}00'06.5''$	3.910621	5.1

BRITSON 7 (USGS, 1934; Jackson County, North Carolina)

Located 5 miles west of Sylva and about 5 miles (airline) southeast of Whittier, on Joe Mountain. Station is on crest of leading ridge on or near property line fence and in corner of timbered tract and on line between Tom Nations and W. E. Nations. To reach from junction of U.S. Highway 19 and 23, at Dillsboro, drive toward Bryson City on 19 for 4.4 miles to side road at Barkers Creek, turn left across river bridge and railroad following main road up Barkers Creek for a distance of 0.25 miles to a road fork, turn right past school and across creek and keep main road for 0.8 miles to a road fork, turn sharp left on wagon road 0.55 miles to the residence of Albert Nations, leave car here and follow trail up a drain in a southerly direction for about 1/4 mile to station. Station mark is a triangular shaped stone well set at base of 12-inch blazed poplar tree about 10 feet south of fence line on crest of ridge.

GEODETIC POSITION: Lat. = $35^{\circ}22'37.698''$; Long. = $83^{\circ}18'32.543''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Worley	$132^{\circ}19'25.1''$	$312^{\circ}15'34.5''$	4.132703	8.4
Worley 8	$178^{\circ}19'34.8''$	$358^{\circ}19'30.4''$	3.822376	4.1
Rattlesnake Mtn.	$189^{\circ}02'58.9''$	$9^{\circ}03'45.8''$	4.112739	8.1
Cherokee	$202^{\circ}02'04.3''$	$22^{\circ}04'36.5''$	4.245863	10.9

GRID POSITION (N.C.): X = 715,920.4; Y = 620,043.0 (G-3)

ELEVATION: 2706 feet (T-5)

BRITSON 8 (USGS, 1934; Jackson County, North Carolina)

Located 3-3/4 miles (airline) south of Cherokee, and about 8 miles east of Bryson City, on land of Herman Cooper. To reach from junction of US Highway 107 and State Highway 28 drive south on Highway 28 towards Sylva, 3.15 miles to a private road, turn left on private road, follow through pasture as far as road leads, then climb to crest of hill where station is located. Station is a 3/4-inch drill hole in a boulder set flush with ground at base of 15-inch blazed hickory tree, about 50 feet west from crest of hill.

GEODETIC POSITION: Lat. = $35^{\circ}26'13.167''$; Long. = $83^{\circ}18'40.235''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Covee 1	$11^{\circ}21'41.5''$	$191^{\circ}20'46.7''$	4.083869	7.5
Rattlesnake Mtn.	$199^{\circ}55'07.3''$	$19^{\circ}55'38.7''$	3.816537	4.1
Dillsboro	$347^{\circ}11'04.3''$	$167^{\circ}11'52.7''$	3.978210	5.9

GRID POSITION (N.C.): X = 716,229.8; Y = 641,833.2 (G-3)

BRITSON 9 (USGS, 1934; Macon County, North Carolina)

Located 5 miles (airline) northeast of Franklin on property of Andy Reed, Ed. DeVault and Charles Shields. To reach from Franklin courthouse take U.S. Highway 23 towards Sylva for 3.9 miles to a side road at Dean's Store, turn left on dirt road 300 feet to road fork, thence right for 2.1 miles to road fork, turn sharp right for 0.9 miles to residence of Charles Jones. Leave car here and take trail north 1/4 mile to station. Station is drill hole in boulder under 24-inch blazed oak tree.

GEODETIC POSITION: Lat. = $35^{\circ}15'09.997''$; Long. = $83^{\circ}21'48.238''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Tremont	$39^{\circ}59'40.1''$	$219^{\circ}57'30.0''$	3.948277	5.5
Wayah	$66^{\circ}14'44.0''$	$246^{\circ}07'54.2''$	4.293218	12.2
Peak	$147^{\circ}25'42.5''$	$327^{\circ}23'52.8''$	3.949404	5.5

GRID POSITION (N.C.): X = 697,725.3; Y = 575,130.1

ELEVATION: 3458 feet (T-5)

BRITSON CITY 2 (USGS, 1934; Jackson County, North Carolina)

Located 5 miles (airline) southeast of Cherokee, and about 6 miles north of Dillsboro, on Carter Top. To reach from Cherokee at intersection of State Highway 107 and 28, drive southeast on Highway 107, 0.3 mile, turn left on gravel road 4.8 miles, turn right at creek crossing on road up Washington Creek, follow new road to gap, leave car, take trail (dug) along ridge to the right about 0.6 mile to second top. Station is a 3/4-inch drill hole in

rock set flush with ground about 1 foot east of 20-inch oak tree located on highest point of Little Bald Mountain.

NOTE: It was reported in June, 1939, that rock had been disturbed, but was replaced.

GEODETIC POSITION: Lat. = $35^{\circ}26'36.454''$; Long. = $83^{\circ}15'02.438''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Dillsboro	$18^{\circ}44'24.5''$	$198^{\circ}43'06.7''$	4.023265	6.6
Worley	$96^{\circ}39'17.3''$	$276^{\circ}33'24.6''$	4.188987	9.6
Rattlesnake Mtn.	$149^{\circ}06'59.1''$	$329^{\circ}05'44.1''$	3.802406	3.9

GRID POSITION (N.C.): X = 734,334.8; Y = 643,408.4 (G-3)

ELEVATION: 4317 feet (T-5)

BRITSON CITY 3 (USGS, 1934; Swain County, North Carolina)

Located 6 miles southeast of Bryson City, and about 8 miles west of Sylva, on top of Connolly Mountain. To reach from intersection of U.S. 19 and Main Street at Whittier, drive south on Main Street 0.1 mile, cross railroad, thence turn left parallel to railroad tracks and go 0.25 mile to side road which leads up Connolly Creek, turn right and follow Connolly road for two miles to road fork, turn left and follow main road for 1.8 miles to a side road, turn right and go 0.1 mile to Charles Gibson's house, leave car here. Station is located on Connolly Mountain which lies $8^{\circ}45'$ W from said house and is best reached by following to gap in right of top and following to the left to the top. Station is 3/4-inch drill hole in boulder set at base of 10-inch blazed white oak tree, about 60 feet east of crest of hilltop, and 12 feet south of wire fence.

GEODETIC POSITION: Lat. = $35^{\circ}22'51.246''$; Long. = $83^{\circ}21'53.926''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Rattlesnake Cliff	$97^{\circ}04'51.0''$	$277^{\circ}03'27.9''$	3.562120	2.3
Rattlesnake Mtn.	$209^{\circ}52'18.0''$	$29^{\circ}55'01.6''$	4.154902	8.9
Dillsboro	$293^{\circ}31'56.2''$	$113^{\circ}34'36.6''$	3.882811	4.7

GRID POSITION (N.C.): X = 699,321.5; Y = 622,139.6 (G-3)

BRITSON CITY 4 (USGS, 1934; Swain County, North Carolina)

Located 2.5 miles south of Bryson City, and 11 miles northwest of Dillsboro, on top of Will Knob. To reach from Bryson City, from square follow US Highway 19 east toward Sylva, for 1.6 miles to a side road, thence turn right on side road at old ice plant and go 1.15 miles to a road fork, turn right and follow road leading up Kirklind Creek for 1.2 miles to the house of an Indian. Leave car here and follow trail which leads southerly up drain behind said house for about 1/4 mile to an open pasture, bear right to highest top, northwesterly from Rich Mountain. Station is on highest part of hill and on north side of pasture fence. Station is a 3/4-inch drill hole in boulder set about 5 feet north of 3-foot blazed oak tree.

GEODETIC POSITION: Lat. = $35^{\circ}23'40.720''$; Long. = $83^{\circ}26'14.670''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Potato Hill	$109^{\circ}43'17.0''$	$289^{\circ}41'05.4''$	3.784556	3.8
Worley	$192^{\circ}40'19.6''$	$12^{\circ}40'56.8''$	3.867551	4.6
Rattlesnake Mtn.	$231^{\circ}32'34.3''$	$51^{\circ}37'49.2''$	4.242515	10.9

GRID POSITION (N.C.): X = 677,976.8; Y = 628,093.1 (G-3)

ELEVATION: 3710 feet (T-5)

CBS 11 (TVA, 1940; Swain County, North Carolina)

Located about 4.3 miles (airline) from Bryson City. To reach from courthouse at Bryson City, drive southwest on U.S. Highway 19, 3.5 miles to Alarka Creek road, turn left on gravel road, go 1.65 miles along road to Y-road intersection, turn right, go 0.1 mile. Leave car, walk southwest 2000 feet up trail along ridge to intersection of ridges, highest point and station. Station is a 1-by-1-inch angle iron.

Reference Mark 1: 40.8 feet S 74° W to 12-inch oak

Reference Mark 2: 26.5 feet N 33° W to 12-inch oak

Reference Mark 3: 12.2 feet N 74° E to 24-inch oak

GRID POSITION (N.C.): X = 664,824.6; Y = 621,307.3 (T-4)

ELEVATION: 2975 feet (T-5)

CBS 138 (TVA, 1942; Jackson County, North Carolina)

Located in southeast corner of Quadrangle 166. To reach from post office at Franklin, drive northeast on U.S. Highway 23, 11.6 miles to Pumpkintown road at foot of mountain. Turn right, follow graded road, go along main road 3.1 miles to T-road, turn left and follow dim road up hollow 0.8 miles to bridge, leave car at bridge (do not cross), and follow old road approximately 1000 feet to old field at forks of hollow. Turn left, follow open fields to low saddle in ridge and station. Station is under center one of three trees, approximately 5 feet west of fence line, and 6 feet from center tree. Station is a 1-by-1-inch angle iron.

Reference Mark 1: 34.05 feet N 31° E to 8-inch oak (tack)

Reference Mark 2: 6.40 feet N 86° E to 18-inch oak (tack)

Reference Mark 3: 80.90 feet S 48° W to 18-inch oak (no tack)

GRID POSITION (N.C.): X = 728,438.7; Y = 576,552.3 (T-4)

ELEVATION: 3595 feet (T-5)

COWEE 1 (USGS, 1934; Jackson County, North Carolina)

Located 9 miles (airline) southeast of Bryson City, 5.6 miles (airline) southwest of Dillsboro, 4.6 miles (airline) west of Greens Creek Post Office, near the corner of Jackson, Swain and Macon Counties on Cowee Bald Mountain in the Cowee Range. Station is on the northwest end of highest peak about 50 feet north of trail which traverses ridge. To reach station from Dillsboro take U.S. Highway 23 to Greens Creek Post Office. Follow road up Greens Creek keeping right hand road at church and schoolhouse, then up Sugar Fork to last house, far as automobile can be taken, follow wood road on up main branch about 1.5 miles to crossing of branch, about 500 feet beyond turn left and follow dim trail up low spur to main ridge, turn right and follow trail along top of ridge to station. Timber is cleared off north slope around station. Station mark is a bronze tablet set in top of rectangular rock, which is set with top projecting 2-inches above ground. Mark was set in center between four posts of an observation tower which had been destroyed, one post only which remained standing, the stumps of the other three still in position and out off about 2 feet above ground.

GEODETIC POSITION: Lat. = $35^{\circ}19'47.261''$; Long. = $83^{\circ}20'14.850''$ (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Peak	$80^{\circ}44'22.0''$	$260^{\circ}41'38.4''$	3.860029	4.5

To Station	Geodetic Azimuth		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Rattlesnake				
Cliff	134°59'56.7"	314°57'36.4"	3.937351	5.4
Dillsboro	239°46'58.9"	59°48'42.0"	3.716493	3.2

COWEE 2 (USGS, 1934; Jackson-Macon Counties, North Carolina)

Located 9.5 miles (airline) southeast of Bryson City, and about 7 miles (airline) southwest of Sylva on the south end of Cowee Bald Mountain. To reach station from Dillsboro take U.S. Highway 23 to Greens Creek Post Office. Follow road up Greens Creek keeping right hand road at church and schoolhouse, then up Sugar Fork to last house, far as automobile can be taken, follow wood road on up main branch about 1.5 miles to crossing of branch, about 500 feet beyond turn left and follow dim trail up low spur to main ridge, turn left and follow trail along top of ridge to station, which is 44 feet S 40° E from fire tower. Station is a standard tablet stamped "COWEE 2 1934" set in boulder at base of 22-inch oak tree, about 12 feet from ground.

Reference Mark 1: 13.9 feet to drill hole in rock outcrop.
Reference Mark 2: 14.1 feet to drill hole in boulder.
Reference Mark 3: 20.7 feet to drill hole in rock outcrop.
GEODETIC POSITION: Lat. = 35°19'34.953"; Long. = 83°20'06.480" (G-3)

To Station	Geodetic Azimuth		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Tremont	28°45'28.2"	208°42'19.3"	4.235785	10.7
Wayah	51°45'47.6"	231°37'58.8"	4.417773	16.3
Dillsboro	235°01'27.3"	55°03'05.5"	3.718676	3.3
Double Top	255°49'46.0"	75°57'59.3"	4.346231	13.8
Hogback	331°39'01.7"	151°42'52.5"	4.328771	13.2

GRID POSITION (N.C.): X = 707,343.0; Y = 601,924.5 (G-3)
ELEVATION: 4944 feet (T-5)

COWEE FIRE TOWER (TVA, 1939; Jackson-Macon Counties, North Carolina)

Located 9.5 miles southwest of Bryson City, 7 miles southwest of Sylva on the south end of Cowee Bald Mountain. For directions to station, see Cowee 2 triangulation station. Station is a fire tower 44.2 feet N 40° W from Cowee 2.

GRID POSITION (N.C.): X = 707,316.6; Y = 601,959.9 (T-4)
ELEVATION (hub under tower): 4947 feet (T-5)
ELEVATION (eaves of tower): 4987 feet (T-5)

COWEE SCHOOL (USGS, 1934; Macon County, North Carolina)

Located 7.5 miles north of Franklin. To reach from Franklin courthouse, drive north on Highway 28 toward Bryson City for 7.3 miles to concrete bridge, turn right and drive 0.1 mile to West's Mill Post Office, thence left for 0.3 miles to brick church and road fork, thence right for 0.2 mile to Cowee School, a large frame building. Station is peak of school.

To Station	Geodetic Azimuth		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Tremont	11°23'18.8"	191°22'39.6"	3.940156	5.4
Wayah	55°23'11.6"	235°17'52.6"	4.320531	13.0
Wayata	272°09'43.0"	92°12'51.9"	3.917797	5.1

GRID POSITION (N.C.): X = 684,928.2; Y = 581,405.0 (G-3)
ELEVATION (Hub level with ground at southeast corner school): 2161 feet (T-5)

DILLSBORO (USCGS, 1933; Jackson County, North Carolina)

Located about 1-1/2 miles southwest of Dillsboro, on summit of highest peak in vicinity (about 4,000 feet elevation) known locally as High Top. To reach from Dillsboro, go south about 100 yards on U.S. Highway 23 to first road to right at sign "Macktown Road", follow this main traveled road 0.6 mile, cross creek, keep to right, continue 0.5 mile to forks, take left fork, cross creek, and follow main-traveled road (bearing to left) 1.3 miles to home of Tom McMahon at end of truck travel. Follow trail which starts in Mr. McMahon's cornfield directly in front of bushy-top white oak, up hill to fence crossing, follow path leading diagonally across field to forks at bottom of hill, take left trail up hill to timber line, continue to top of ridge, and bear left along ridge to station site. Surface mark is a standard bronze tablet wedged in a drill hole in a boulder. Underground mark is a standard bronze tablet wedged in a drill hole in a boulder 3 feet below the ground.

Reference Marks are standard bronze tablets, with the arrows pointing toward the station, each wedged in a drill hole in a boulder.
Reference Mark 1 is on downward slope of summit, and 8.10 meters (26.6 feet) from station in geodetic azimuth 59°53'.
Reference Mark 2 is along west edge of ridge, and 19.42 meters (63.7 feet) from station in geodetic azimuth 149°07'.

To Station	Geodetic Azimuth		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Waterrock (USGS)	227°59'00.8"	48°04'14.1"	4.263634	11.4
Carver	255°51'25.3"	75°55'42.5"	4.063202	7.2

GRID POSITION (N.C.): X = 721,822.84; Y = 611,139.71 (C-2)
ELEVATION: 4009 feet (T-5)

F 57 (USCGS, 1934; Swain County, North Carolina)

Located 2.3 miles northwest along State Highway 107 from Cherokee, about 2 miles north of the main entrance to the Cherokee Indian School, at a curve, about 200 feet northeast of a house, about 45 feet southeast of a barn, about 35 feet west of the center line of the highway, and 5 feet southeast of a peach tree. A standard tablet, stamped "F 57 1934" and set in the top of a concrete post.

ELEVATION: 1,992.056 feet or 607.180 meters (C-2)

FSR 67 (TVA, 1942; Swain County, North Carolina)

Located on right bank of Tuckasegee River, 350 feet upstream from mouth of Canebrake Branch, on side of hill 15 feet above contour. A standard tablet stamped "FSR 67" and set in concrete monument. A steel post with control marker sign set about 1 foot north of monument.

Reference Mark 1: 21.4 feet Due West to nail and washer in side 18-inch white oak tree.
Reference Mark 2: 20.7 feet Due North to nail and washer in side of 6-inch locust tree.
Reference Mark 3: 9.3 feet N 67° E to nail and washer in side of 18-inch white oak tree.

GRID POSITION (N.C.): X = 660,452.2; Y = 650,252.8 (T-4)

Grid Azimuth to FSR 68 (distance 675.8 feet): 24°22'.
Grid Azimuth to nail in base of 24-inch beech tree, 3 feet above ground, 20 feet south from 1710 contour and across river from FSR 67 (distance 694 feet): 19°27'.
ELEVATION: 1726.5 feet (T-4)

FSR 69 (TVA, 1942; Swain County, North Carolina)

Located on right bank of Tuckasegee River, 0.3 miles downstream from mouth of Landa Creek, 0.1 mile downstream and across river from mouth of Laurel Branch, on downstream end of large bluff. A standard tablet stamped "FSR 69" and set in downstream end of large rock. A steel post with control marker sign set 3.8 feet east of tablet.

Reference Mark 1: 22 feet S 20° E to nail and washer in side of 7-inch double hickory tree.
Reference Mark 2: 8.1 feet N 36° E to painted cross on side of bluff.
Reference Mark 3: 12.05 feet N 20° W to paint spot on 5-inch pine.
GRID POSITION (N.C.): X = 663,381.6; Y = 645,497.1 (T-4)
Grid Azimuth to FSR 70 (distance 627.7 feet): 60°33'.
Grid Azimuth to cross in circle painted on side of bluff about 40 feet above 1710 contour (distance 137.9 feet): 319°25'.
ELEVATION: 1724.0 feet (T-4)

FSR 70 (TVA, 1942; Swain County, North Carolina)

Located on left bank of Tuckasegee River, 0.1 mile downstream from mouth of Laurel Branch, on side of hill 10 feet above contour. A standard tablet stamped "FSR 70" and set in rock outcrops. A steel post with control marker sign set 6.5 feet south of tablet.

Reference Mark 1: 6.6 feet S 60° E to 7-foot steel fence post.
Reference Mark 2: 11.3 feet N 46° W to nail and washer in side of 14-inch lynn tree.
Reference Mark 3: 16.8 feet South to nail and washer in 5-inch twin dogwood.
Reference Mark 4: 21.6 feet N 70° W to nail and washer in 14-inch locust.
GRID POSITION (N.C.): X = 662,835.0; Y = 641,096.4 (T-4)
Grid Azimuth to FSR 69 (distance 627.7 feet): 240°33'.
ELEVATION: 1719.7 feet (T-4)

FSR 71 (TVA, 1942; Swain County, North Carolina)

Located on right bank of Tuckasegee River, 8.5 feet northwest of center line of Highway 288, 250 feet upstream from sharp curve, 5 feet above contour. A standard tablet stamped "FSR 71" and set in bottom of large bluff 16 feet above road. A steel post with control marker sign set 1.8 feet southwest of tablet.

Reference Mark 1: 2.6 feet N 45° E to paint spot on rock.
Reference Mark 2: 3.45 feet West to paint spot on rock.
GRID POSITION (N.C.): X = 664,578.0; Y = 641,096.4 (T-4)
Grid Azimuth to FSR 72 (distance 709.6 feet): 346°44'.
Grid Azimuth to nail through a washer and a white painted circle 4 feet high on a 14-inch pine which is also a reference to WM-117, approximately 2000 feet upstream from FSR 71 at intersection of roads: 271°38'.
ELEVATION: 1715.1 feet (T-4)

FSR 72 (TVA, 1942; Swain County, North Carolina)

Located on left bank of Tuckasegee River, 0.7 miles downstream from mouth of Buckner Branch, 300 feet downstream from one-story frame house, in open field 15 feet above contour. A standard tablet stamped "FSR 72" set in concrete post. A steel post with control marker sign set 1 foot south of monument.

Reference Mark 1: 81.4 feet N 56° E to nail and washer in side of 14-inch dead walnut tree.
Reference Mark 2: 40.1 feet N 33° W to paint spot on 3-inch locust.
GRID POSITION (N.C.): X = 664,740.8; Y = 640,405.7 (T-4)
Grid Azimuth to FSR 71 (distance 709.6 feet): 166°44'.
ELEVATION: 1723.6 feet (T-4)

FSR 73 (TVA, 1942; Swain County, North Carolina)

Located on right bank of Tuckasegee River, 147 feet N 65° W from Bryson City limit sign, 52.5 feet southwest center line State Highway 288, on small rise between railroad and small field, 23 feet southwest from center line railroad, and 12 feet above contour. A standard tablet stamped "FSR 73" and set in concrete post. A steel post with control marker sign set about 1 foot north of monument.

Reference Mark 1: 11.2 feet S 75° E to paint spot on 2-inch twin walnut.
Reference Mark 2: 40.3 feet N 45° W to paint spot on 4-inch sycamore.
GRID POSITION (N.C.): X = 670,143.8; Y = 639,373.8 (T-4)
Grid Azimuth to FSR 74 (distance 480.8 feet): 53°50'.
Grid Azimuth to Frye Mountain (Fire Tower): 318°29'.
ELEVATION: 1722.0 feet (T-4)

FSR 74 (TVA, 1942; Swain County, North Carolina)

Located on left bank of Tuckasegee River, 0.3 miles upstream from mouth of Buckner Branch, 0.4 miles downstream along Laurel Branch road from U.S. Highway 19, 16 feet southwest from center line of road, 8 feet above road, and 18 feet above contour. A standard tablet stamped "FSR 74" and set in top of large rock in cut. A steel post with control marker sign set 4.5 feet northeast of monument.

Reference Mark 1: 15.1 feet S 49° E to painted cross on large rock.
Reference Mark 2: 4.8 feet N 56° W to painted cross on rock.
Reference Mark 3: 19.5 feet N 68° E from nail and washer in side of 5-inch birch tree.
Reference Mark 4: 4.5 feet Northeast to 7-foot steel fence post.
GRID POSITION (N.C.): X = 669,755.6; Y = 639,090.1 (T-4)
Grid Azimuth to FSR 73 (distance 480.8 feet): 233°50'.
ELEVATION: 1728.1 feet (T-4)

G 37 (USCGS, 1932; Swain County, North Carolina)

Located about 3.8 miles northwest along the Southern Railway from Bryson, about 950 feet east of milepost 68, opposite trestle T 67.8 over Peachtree Creek, on State Highway 288, at a concrete culvert over Peachtree Creek, in the west end of the north coping, and 8 feet north of the center line of the highway. A standard tablet stamped "1674-911 G 37 1932."

NOTE: Submerged at times by Fontana Reservoir; usable when reservoir is low.
GRID POSITION (N.C.): X = 662,449.6; Y = 647,593.0 (T-4)
ELEVATION: 1,674.767 feet or 510.470 meters (C-1)

G 57 (USC&GS, 1934; Swain County, North Carolina)

Located 0.3 miles north along State Highway 107 from the post office at Cherokee, at the south or main entrance to the Cherokee Indian School, 27 feet north of the center line of a driveway leading through a stone gate, 15 feet north of a 36-inch tree, 8 feet south of a 30-inch tree, about 35 feet west of the center line of the highway, and about 5 feet west of a stone fence. A standard tablet stamped "G 57 1934" and set in the top of a concrete post.

ELEVATION: 1,944.967 feet or 592.827 meters (C-2)

GAGE BM 1 (USGS, 1921, Cherokee; Swain County, North Carolina)

Located on right bank of Oconaluftee River at cable foot bridge at Cherokee Indian School, 3/4 miles upstream from Cherokee, near State Highway 107, 38 feet upstream from gage shelter, 10.60 feet above gage zero. A standard USGS gaging station set in concrete post.

ELEVATION: 1948.97 feet (G-3)

GAGE BM 1 (USGS, 1934, Dillsboro; Jackson County, North Carolina)

Located on left bank of river at Mile 30.0, about 60 feet upstream from county foot bridge over river at Dillsboro, near Macktown road, 0.6 miles downstream from U.S. Highway 23 bridge over Tuckasee River, 31 feet downstream and in line with shore face of gage shelter, 13.10 feet above gage zero. A standard USGS gaging station reference tablet cemented in rock ledge.

ELEVATION: 1963.24 feet (T-3)

GAGE BM 2 (USGS, 1934; Jackson County, North Carolina)

Located on left bank of river at Mile 30.0, about 45 feet upstream from county foot bridge over river at Dillsboro, near Macktown road, about 0.6 miles downstream from U.S. Highway 23 bridge over Tuckasee River, on hillside of Macktown road, 20 feet shoreward from cable anchorage and 45 feet downstream from gage shelter, 25.87 feet above gage zero. A standard USGS gaging station reference tablet cemented in rock ledge.

ELEVATION: 1976.02 feet (T-3)

GAGE BM 3 (USGS, 1927, Bryson City; Swain County, North Carolina)

Located on left bank of Tuckasee River, at highway bridge over river at Bryson City, at State Highway 288 bridge, near junction of State Highway 288 and U.S. Highway 19, directly under downstream side of bridge, 8.55 feet above gage zero. Cross cut on end rock of left bank retaining wall.

ELEVATION: 1725.09 feet (G-3)

GAGE BM 3 (USGS, 1921, Cherokee; Swain County, North Carolina)

Located about 0.4 miles north along State Highway 107 from the main entrance to the Cherokee Indian School at Cherokee, opposite the north end of the fence around the athletic field, about 30 feet south of a concrete gaging-station house, about 55 feet east of the center line of the highway, and 3 feet south of a swinging bridge, 10.58 feet above gage zero. A USGS standard disk, set in the top of a concrete post.

ELEVATION: 1,948.946 feet or 594.040 meters (C-2)

GAGE BM 5 (USGS, 1929; Swain County, North Carolina)

Located on left bank of Tuckasee River, at the end of paved street, 400 feet downstream from State Highway 288 bridge over river and near junction of State Highway 288 and U.S. Highway 19, 10.34 feet above gage zero. A standard USGS gaging station reference tablet set in concrete base to gage shelter steps.

H 37 (USC&GS, 1932; Swain County, North Carolina)

Located 2.1 miles west along the Southern Railway from Bryson, 150 feet west of milepost 66, 5 feet north of the north rail, and 20 feet south of the center line of State Highway 288, in an embedded sandstone boulder. A standard tablet, stamped "1714.638 H 37 1932".

GRID POSITION (N.C.): X = 666,809.4; Y = 641,415.6 (T-4)

ELEVATION: 1,714.491 feet or 522.578 meters (C-1)

H 57 (USC&GS, 1934; Swain County, North Carolina)

Located 1-1/4 miles southwest along the abandoned Appalachian Railway from the post office at Cherokee, 35 feet north of the Oconaluftee River bank, about 12 feet west of a wagon-road crossing, 15 feet south of the south rail, and 3 feet east of a pole. A standard tablet, stamped "H 57 1934" and set in the top of a concrete post.

ELEVATION: 1,907.253 feet or 581.332 meters (C-2)

HOBER (USGS, 1929; Swain County, North Carolina)

Located on divide between Cooper Creek and Indian Creek. A high point about 3-1/2 miles (airline) northeast of Ela and 4 miles (airline) northwest of Cherokee. To reach from Bryson City, drive east on U. S. Highway 19 4.03 miles to Ela Church, turn left up Cooper Creek 4.3 miles to road fork and sign "Deep Low Gap 1.8 miles". Turn left about 0.2 mile, leave car, continue up dug trail for 1.6 miles to Deep Low Gap, and sign directing to Bryson City, turn left on same trail 0.7 miles to saddle between two knolls. Turn left 500 feet to 16-inch hickory on knoll. Station is under a 24-inch white oak tree. Station mark is a triangle cut in tree.

GEODETIC POSITION: Lat. = 35°29'54.237"; Long. = 83°23'01.475" (G-3)

To Station	Aimuth	Back Azimuth	Log Meters	Miles
Newton Bald	203°54'33.5"	23°55'25.3"	3.743641	3.4
Cataloochee	284 50 14.0	64 57 37.8	4.327214	13.2
Bunches Bald	263 36 31.1	83 43 16.5	4.247999	11.0

GRID POSITION (N.C.): X = 695,621.7; Y = 665,107.5 (G-3)

ELEVATION (hub under tree): 4285 feet (T-5)

J 37 (USC&GS, 1932; Swain County, North Carolina)

Located at Bryson, at the north end of Everett Street, in the southeast corner of a brick building, owned by W. A. Franklin. A standard tablet stamped "1736.417 J 37 1932" and set vertically, about 3-1/2 feet above ground.

ELEVATION: 1736.276 feet or 529.218 meters (C-1)

J 57 (USC&GS, 1934; Jackson County, North Carolina)

Located 2-3/4 miles northeast along the abandoned Appalachian Railway from Ela, 4 rails north of an unpainted house, 35 feet east of the center line of a road, 10 feet east of the center line of the track, at the northwest corner of a garden, 1 foot east of a point 1 foot north of the northwest corner of the garden fence. A standard tablet, stamped "J 57 1934" and set in the top of a concrete post.

ELEVATION: 1,863.960 feet or 568.136 meters (C-2)

JJR 50 (TVA, 1942; Swain County, North Carolina)

Located in the northwest portion of Quadrangle 166. To reach from Bryson City Post Office drive west on Highway 288 4.0 miles to Peachtree Creek, turn north on gravel road up Peachtree Creek 2.2 miles to last house, turn northwest up trail 0.4 mile to gap. Turn west up ridge 400 feet to high point. Station is 100 feet southwest from corner of barbed wire fence. A 2- by 2-inch hub under a 36-inch white oak tree.

Reference Mark 1: 6.4 feet N 17° E to nail in 36-inch white oak tree.

Reference Mark 2: 17.0 feet N 34° E to nail in 24-inch black oak.

Reference Mark 3: 2.14 feet S 20° E to nail in 30-inch white oak tree.

GRID POSITION (N.C.): X = 663,324.7; Y = 656,588.1 (T-4)

JJR 51 (TVA, 1942; Swain County, North Carolina)

Located in northwest portion of Quadrangle 166. To reach from Bryson City Post Office, drive west on State Highway 288, 3.1 miles to T-road up Lands Creek, turn northeast up Lands Creek 0.5 miles to first house, turn north up trail 0.3 miles to top of ridge. Station is on top of ridge 300 feet north from open field, 100 feet north from barbed wire fence. A 1- by 1-inch angle iron under 20-inch red oak tree and stamped "JJR 51".

Reference Mark 1: 5.6 feet N 80° E to nail in 20-inch red oak tree.

Reference Mark 2: 14.2 feet N 72° W to nail in 4-inch pine tree.

GRID POSITION (N.C.): X = 664,745.1; Y = 647,263.2 (T-4)

JJR 52 (TVA, 1942; Swain County, North Carolina)

Located in the northwest corner of Quadrangle 166. To reach from Bryson City Post Office drive west on Highway 288, 4.0 miles to Peachtree Creek, turn north on gravel road up Peachtree Creek, 2.2 miles to last house, turn northwest up trail 0.4 miles to gap, turn northeast up ridge and trail 1.1 miles to high point on ridge, on south slope of point 40 feet from top. A 1- by 1-inch angle iron stamped "JJR 52" and set under a 32-inch black oak tree.

Reference Mark 1: 3.9 feet West to nail in 32-inch black oak tree.

Reference Mark 2: 13.4 feet S 15° E to nail in 10-inch red oak tree.

Reference Mark 3: 25.3 feet East to nail in 16-inch hickory tree.

GRID POSITION (N.C.): X = 666,136.5; Y = 660,509.9 (T-4)

K 37 (USC&GS, 1932; Swain County, North Carolina)

Located at Bryson, about 200 yards south of the Southern Railway tracks, at the Everett Street concrete bridge over Tuckasee River, and in the south end of the west balustrade. A standard tablet stamped "1738.455 K 37 1932".

ELEVATION: 1,738.313 feet or 529.839 meters (C-1)

K 47 (USC&GS, 1932; Jackson County, North Carolina)

Located 10 miles northeast along U.S. Highway 23 from Franklin, in a horseshoe bend with the tips of the shoe running east, opposite the westernmost part of the bend, 165 feet north of a concrete culvert, and 27.5 feet west of the center line of the highway. A standard tablet stamped "2820.605 K 47 1932" and set in a concrete post.

ELEVATION: 2,820.490 feet or 859.687 meters (C-1)

K 57 (USC&GS, 1934; Swain County, North Carolina)

Located 3/4 miles northeast along the abandoned Appalachian Railway from Ela, 9 rails northeast of a grade crossing, about 10 feet northwest of the center line of the track, about 15 feet east of the center line of the road and about 10 feet north of a pole. A standard tablet stamped "K 57 1934" and set in the top of a concrete post.

ELEVATION: 1,836.043 feet or 559.627 meters (C-2)

L 12 (USGS, 1928; Swain County, North Carolina)

Located 1.2 miles north of Deep Creek Baptist Church, 3.1 miles north of mouth of Deep Creek, 900 feet south of Indian Creek, at dam site, 30 feet east of road, and in rock ledge. A bronze tablet stamped "L 12 1928", painted "USPBM 1901.8".

Reference Mark is 30 feet southwest of tablet, 10 feet east of road, on a rock ledge; a chiseled square, 5.43 feet lower than the tablet.

ELEVATION: 1901.49 feet (G-3)

L 37 (USC&GS, 1932; Swain County, North Carolina)

Located 2 miles east along the Southern Railway from Bryson, 250 feet east of milepost 62, 39 feet northwest of the crossing of U.S. Highway 19 and 27 feet west of the center line of the highway. A standard tablet stamped "1773.648 L 37 1932" and set in the top of a concrete post projecting about 5 inches above ground.

ELEVATION: 1,773.510 feet or 540.567 meters (C-1)

L 47 (USC&GS, 1932; Jackson County, North Carolina)

Located 7.4 miles southwest along U.S. Highway 23 from Dillsboro, 450 feet northeast of the Methodist Church, in a large deep highway cut, about 190 feet northeast of a Standard Oil Company Service Station pump, 133 feet northeast of the northeast end of a retaining wall, and 20 feet northwest of the northwest edge of the pavement. A standard tablet stamped "2269.936 L 47 1932" and set in the top of a concrete post.

ELEVATION: 2,269.818 feet or 691.842 meters (C-1)

L 57 (USC&GS, 1934; Swain County, North Carolina)

Located at Ela, 76 yards west of the Southern Railway station, 27 feet west of the center of a grade crossing, about 70 feet north of the center line of the track, and about level with the top of the rail, 16.9 feet north of the north rail of a side track, and 4 feet southeast of the corner of the old G. L. Crawford store. A standard tablet, stamped "L 57 1934" and set in the top of a concrete post.

ELEVATION: 1,791.650 feet or 546.096 meters (C-2)

LIT 884 (TVA, 1938; Jackson County, North Carolina)

Located 0.8 miles east of Soco School, 3.9 miles east of Cherokee, on Soco Gap road, 0.7 miles west from Blue Wing Church, north of center line of road in line with telephone pole, west of T-road to farm house. A standard tablet stamped "LIT 884 1938" and set in concrete post.

Reference Mark 1: 15.0 feet South to center line of road.

Reference Mark 2: 2.4 feet West to telephone pole.

Reference Mark 3: 60.0 feet East to center line of T-road south.

ELEVATION: 2200.835 feet or 670.816 meters (T-2)

LIT 885 (TVA, 1938; Jackson County, North Carolina)

Located at Soco School, 3.3 miles southeast from Cherokee, on Soco Gap road, on property of Qualla Indian Reservation, in Soco School yard. A standard

tablet stamped "LHT 885 1938" and set in concrete post.
 Reference Mark 1: 64.0 feet North to power pole painted "FBM".
 Reference Mark 2: 10.3 feet Southwest to northwest corner of school building.
 Reference Mark 3: 37.3 feet North to center line of road.
 ELEVATION: 2134.805 feet or 650.690 meters (T-2)

LHT 886 (TVA, 1938; Jackson County, North Carolina)
 Located 1.2 miles west from Soco School, 2.1 miles east from Cherokee, on Soco Gap road, on property of Qualla Indian Reservation, at T-road junction, 4.5 feet south of southwest corner of school bus-station. A standard tablet stamped "LHT 886 1938" and set in concrete post.
 Reference Mark 1: 30.5 feet South to center line of road at east end of bridge over creek.
 Reference Mark 2: 14.7 feet Southwest to 6-inch beech tree.
 Reference Mark 3: 18.0 feet West to center line of creek.
 ELEVATION: 2059.937 feet or 627.870 meters (T-2)

LHT 887 (TVA, 1938; Jackson County, North Carolina)
 Located 1.01 miles southeast from Cherokee, on Soco Gap road, on property of T. Tolliver, 81.5 feet south of T-road junction in southeast corner of yard. A standard tablet stamped "LHT 887 1938" and set in concrete post.
 Reference Mark 1: 24.0 feet Southwest to center line of road.
 Reference Mark 2: 53.5 feet North to southeast corner of house.
 Reference Mark 3: 25.5 feet West to 26-inch catalpa tree.
 ELEVATION: 2023.313 feet or 616.707 meters (T-2)

LHT 888 (TVA, 1938; Swain County, North Carolina)
 Located 0.2 miles southeast from Cherokee, on Soco Gap road, on property of Johnson Arch, 0.1 mile northeast along Soco Gap road from junction of Soco Gap road and Highway 107, 5.0 feet above road, at wire fence corner, 21.2 feet west of center line of small drain, at a sharp curve in road. A standard tablet stamped "LHT 888 1938" and set in concrete post.
 Reference Mark 1: 30.0 feet Northeast to center line of road.
 Reference Mark 2: 4 feet West to telephone pole.
 Reference Mark 3: 72.0 feet Southwest to northeast corner of house.
 ELEVATION: 1990.590 feet or 606.733 meters (T-2)

LHT 980 (TVA, 1938; Swain County, North Carolina)
 Located 1.8 miles southwest of Bryson City, on U.S. Highway 19, on property of E. P. Jenkins, in rock outcrop on outside of sharp curve, on south side of 1-story boxed house which sets on edge of road, 40.0 feet north of T road west, between house and road. A standard tablet stamped "LHT 980 1939" and drilled in rock outcrop.
 Reference Mark 1: 23.4 feet East to center line of U.S. Highway 19.
 Reference Mark 2: 119.0 feet South to center line of T-road intersection.
 Reference Mark 3: 17.0 feet North to southeast corner of house.
 ELEVATION: 1840.508 feet or 560.988 meters (T-2)

LHT 981 (TVA, 1938; Swain County, North Carolina)
 Located 3.0 miles southwest of Bryson City, on U.S. Highway 19, on property of Myrtle Dehart, on west side of highway at toe of bank, 210.0 feet south of one and one-half story red brick dwelling, 500.0 feet southwest of one and one-half story red brick dwelling on opposite side of road, 12.0 feet west of line of telephone poles, and 50.0 feet south along highway from lone apple tree on east side of highway. A standard tablet stamped "LHT 981 1939" and set in top of concrete post.
 Reference Mark 1: 34.0 feet East to center line of U.S. Highway 19.
 Reference Mark 2: 26.2 feet West to telephone pole.
 Reference Mark 3: 83.0 feet Northeast to 14-inch apple tree.
 ELEVATION: 1918.110 feet or 584.641 meters (T-2)

LHT 982 (TVA, 1938; Swain County, North Carolina)
 Located 3.5 miles southwest of courthouse in Bryson City, on U.S. Highway 19, in triangle formed by road fork to Alarka, in center of small triangle, 0.4 mile south of Jackson Line Church. A standard tablet stamped "LHT 982 1939" and set in concrete post.
 Reference Mark 1: 33.1 feet West to center line of U.S. Highway 19.
 Reference Mark 2: 18.5 feet North to center line of dirt road.
 Reference Mark 3: 24.9 feet South to center line of dirt road.
 ELEVATION: 1930.957 feet or 588.557 meters (T-2)

LHT 983 (TVA, 1938; Swain County, North Carolina)
 Located 4.4 miles southwest of courthouse at Bryson City, on U.S. Highway 19, on southwest end of west bridge bannister of new highway bridge over Alarka Creek at Dehart's Mill, 3.0 feet above level of road on west side of highway. Old bridge stands immediately beside new bridge. A standard tablet stamped "LHT 983 1939" and set in bridge bannister.
 ELEVATION: 1873.671 feet or 571.096 meters (T-2)

LHT 984 (TVA, 1938; Swain County, North Carolina)
 Located 5.3 miles southwest of courthouse in Bryson City, on U.S. Highway 19, on property of Cold Springs Baptist Church, at southeast corner of Cold Springs Baptist Church, 0.3 miles south of highway intersection, on west side of highway. A standard tablet stamped "LHT 984 1939" and set in concrete post.
 Reference Mark 1: 7.4 feet Northwest to southeast corner of church.
 Reference Mark 2: 13.0 feet South to triple evergreen tree.
 Reference Mark 3: 82.0 feet East to center line of U.S. Highway 19.
 ELEVATION: 2001.033 feet or 609.916 meters (T-2)

LHT 1017 (TVA, 1938; Swain County, North Carolina)
 Located 7.0 miles southwest of courthouse at Bryson City, 1.0 mile southeast of junction of State Highway 28 and U.S. Highway 19, on old State Highway 286, 800 feet north of confluence of Davis Creek into Sawmill Creek, about 1000 feet north of long hairpin curve, set in south of small draw, 400 feet north of old house site, on north side of road, 29 feet from center line, on south slope of ridge, and same elevation as road surface. A standard tablet stamped "LHT 1017 1939" and set in concrete post.
 Reference Mark 1: 16.2 feet East to 12-inch black walnut tree (painted FBM).
 Reference Mark 2: 16.0 feet South to east end of culvert.
 Reference Mark 3: 40.5 feet Southwest to guard post across road (painted BM).
 ELEVATION: 1922.194 feet or 585.886 meters (T-2)

LHT 1018 (TVA, 1938; Swain County, North Carolina)
 Located 8.2 miles southwest of courthouse at Bryson City, 2.0 miles south of junction of State Highway 28 with U.S. Highway 19, on old State Highway 286 right-of-way, 0.6 miles south of confluence of Davis Creek into Sawmill Creek, on east side of road, 33.5 feet from center line of road, 21 feet from east end of 12-inch corrugated metal culvert, same elevation as road surface. A standard tablet stamped "LHT 1018 1939" and set in concrete post.
 Reference Mark 1: 58.5 feet West to 12-inch lone apple tree which stands inside curve.
 Reference Mark 2: 9.3 feet North to 8-inch pine tree (painted FBM).
 Reference Mark 3: 8.0 feet East to 8-inch pine tree (painted BM).
 NOTE: Highway has been relocated, and the tablet is on the old gravel highway, about 0.4 miles from the new pavement.
 ELEVATION: 2009.284 feet or 612.431 meters (T-2)

LHT 1019 (TVA, 1938; Swain County, North Carolina)
 Located 8.0 miles southwest of courthouse at Bryson City, 2.8 miles south of junction of State Highway 28 with U.S. Highway 19, on State Highway 28, on property of Joel Gibson, on west side of road, 24 feet from center line of road, same elevation as road surface on west side of ridge overlooking Horseshoe Bend of Little Tennessee River at northeast corner of Joel Gibson's house-garage combination, southwest of spring in road bank. A standard tablet stamped "LHT 1019 1939" and set in concrete post.
 Reference Mark 1: 2.0 feet North to southeast corner house-garage combination.
 Reference Mark 2: 24.0 feet East to center line of road.
 Reference Mark 3: 52.0 feet Southeast to 14-inch pine tree (painted FBM).
 ELEVATION: 2163.165 feet or 659.334 meters (T-2)

LHT 1020 (TVA, 1938; Swain County, North Carolina)
 Located 9.2 miles southwest of courthouse, Bryson City, 19.1 miles northwest of courthouse, Franklin, on property of D. A. DeHart, 4 miles south of junction of State Highway 28 and U.S. Highway 19, 300 feet east of house occupied by A. A. DeHart, on east side of road, 53 feet from center line of road between trail to east and small drain. A standard tablet stamped "LHT 1020 1939" and set in a concrete post.
 Reference Mark 1: 20.0 feet Northwest to 10-inch white oak tree (painted FBM).
 Reference Mark 2: 37.7 feet West to east end of 12-inch metal culvert.
 Report on Condition: (TVA, 1940) Top of concrete post has been knocked off; tablet removed.
 ELEVATION: 2147.007 feet or 654.409 meters (T-2)

LHT 1025 (TVA, 1938; Swain-Macon Counties, North Carolina)
 Located 15.5 miles southwest of courthouse Bryson City, 13.8 miles northwest of courthouse Franklin, State Highway 28, 4.1 miles northwest of Etna Post Office, 0.9 miles southwest of Indian Grave Gap, on southwest side of road, 81.0 feet from center line of road at county line sign, 400 feet east of log house in head of hollow, approximately 5 feet above road surface at county line. A standard tablet stamped "LHT 1025 1939" and set in a concrete post.
 Reference Mark 1: 62.6 feet Northeast to post marked Macon Co.
 Reference Mark 2: 15.0 feet Southeast to 30-inch post oak tree.
 Reference Mark 3: 15.8 feet Northwest to trail at edge of cut.
 ELEVATION: 2204.838 feet or 672.036 meters (T-2)

LHT 1026 (TVA, 1938; Macon County, North Carolina)
 Located 12.9 miles northwest of the courthouse at Franklin, on State Highway 28, 16.4 miles southwest of the courthouse at Bryson City, 3.2 miles northwest of Etna Post Office, 0.9 miles southeast of Macon-Swain County line, on the west side of road, 47 feet from center line of road, at Y-road intersection south, and same elevation as road surface. A standard tablet stamped "LHT 1026 1939" and set in concrete post.
 Reference Mark 1: 7.4 feet North to 18-inch poplar tree (painted FBM).
 Reference Mark 2: 60.0 feet East to center line of State Highway 28 and Y-road intersection from south.
 ELEVATION: 2054.852 feet or 626.320 meters (T-2)

LHT 1027 (TVA, 1938; Macon County, North Carolina)
 Located 12.0 miles northwest of courthouse at Franklin, and 17.3 miles southwest of courthouse at Bryson City, on State Highway 28, on northeast edge of road right-of-way, 2.4 miles northwest of Etna Post Office, 1.8 miles southeast of Macon-Swain County line, on north side of road, 25.5 feet from center line of road northeast and from Lost Bridge over Little Tennessee River in line with downstream side of bridge, same elevation as road, on right bank of Little Tennessee River. A standard tablet stamped "LHT 1027 1939" and set in concrete post.
 Reference Mark 1: 25.5 feet Southwest to center line road (painted symbol).
 Reference Mark 2: 149.0 feet Southwest to center line northeast end of Lost Bridge.
 Reference Mark 3: 134.8 feet Southeast to northeast end of concrete headwall of culvert (along road.)
 ELEVATION: 1912.490 feet or 582.928 meters (T-2)

LHT 1028 (TVA, 1938; Macon County, North Carolina)
 Located 10.8 miles northwest of courthouse at Franklin, on State Highway 28, 2.9 miles southeast from Macon-Swain County line, on property of Charles Truett, 1.2 miles northwest of Etna Post Office, 0.2 miles northwest of where Nantahala Power and Light Company's transmission line crosses highway on north side of highway, on west side of T-road intersection from north, 36.5 feet from intersection of T-road, 4 feet above surface of road, and 90 feet west to Charles Truett's house. A standard tablet stamped "LHT 1028 1939" and set in a concrete post.
 Reference Mark 1: 36.5 feet Southwest to center line road at T-road intersection (painted symbol).
 Reference Mark 2: 30.0 feet North to 10-inch apple tree (painted FBM).
 Reference Mark 3: 18.3 feet Southwest to west end of tile.
 ELEVATION: 2038.917 feet or 621.463 meters (T-2)

LHT 1029 (TVA, 1938; Macon County, North Carolina)
 Located 9.6 miles northwest of the courthouse at Franklin, on State Highway 28, and 4.2 miles southeast of Macon-Swain County line, where County line crosses highway, 300 feet northwest of Etna Post Office, on top of guard

wall of west end of upstream side of concrete bridge over Lukey Creek, and 3.9 feet above surface of road. A standard tablet stamped "LHT 1029 1939" and set horizontally in guard wall of bridge.

Reference Mark 1: 9.0 feet South to center line of State Highway 28.
Reference Mark 2: 1.0 feet West to west end of guard wall.
Reference Mark 3: 0.7 feet South to inside edge of wall.
ELEVATION: 1941.499 feet or 591.770 meters (T-2)

LHT 1030 (TVA, 1938; Macon County, North Carolina)

Located 8.6 miles northwest of courthouse in Franklin, on State Highway 28, and 1.0 miles southeast of Etna Post Office, 1.5 miles northwest of Wests Mill Post Office, on State Highway right-of-way, on south side of road, 35 feet opposite T-road intersection, north 33 feet from center line of highway, 1000 feet east of concrete bridge over Bradley Creek, same elevation as road surface. A standard tablet stamped "LHT 1030 1939" and set in a concrete post.

Reference Mark 1: 17.7 feet Southeast to twin 6-inch black oak trees (painted PBM).
Reference Mark 2: 123.4 feet Northwest to south end of concrete headwall to culvert.
Reference Mark 3: 30.3 feet Southwest to 6-inch red oak tree.
ELEVATION: 2022.466 feet or 616.449 meters (T-2)

LHT 1031 (TVA, 1938; Macon County, North Carolina)

Located 7.8 miles northwest of the courthouse in Franklin, 0.8 miles northwest of Wests Mill Post Office, and 1.9 miles southeast of Etna Post Office, on State Highway 28, on property of Vance Brown, set on north side of highway, 31.5 feet from center line of road, 600 feet northeast of confluence of Potts Branch into Little Tennessee River, 250 feet west of Vance Brown's house occupied by S. R. Pickens, 100 feet north of waters edge of Little Tennessee River, on the right bank, and same elevation as road surface. A standard tablet stamped "LHT 1031 1939" and set in concrete post.

Reference Mark 1: 45.4 feet West to north end of center line concrete headwall of 20-inch metal culvert.
Reference Mark 2: 31.5 feet South to center line State Highway 28 (painted symbol at center line).
Reference Mark 3: 148.0 feet East to southwest corner of Vance Brown's barn.
ELEVATION: 1958.500 feet or 596.952 meters (T-2)

LHT 1032 (TVA, 1938; Macon County, North Carolina)

Located at Wests Mill, 400 feet southwest of Wests Mill Post Office, and 7.1 miles northwest of the courthouse at Franklin, on State Highway 28 right-of-way, at Y-road intersection from northeast, on east abutment of concrete bridge over Cowee Creek, upstream side in Y, and same elevation as road surface. A standard tablet stamped "LHT 1032 1939".

Reference Mark 1: 12 feet South to center line of State Highway 28.
Reference Mark 2: 59 feet Northeast to southeast corner of West's store.
Reference Mark 3: 78.8 feet Southwest to northwest corner of Wests Mill.
ELEVATION: 1968.480 feet or 599.994 meters (T-2)

LHT 1033 (TVA, 1938; Macon County, North Carolina)

Located 6.1 miles northwest of the courthouse at Franklin, on State Highway 28, and 1.0 miles southeast of Wests Mill Post Office, on property of Laura Bryson, 0.5 miles southeast of Cowee Church, set on northeast side of road, 24 feet from center line, 100 feet west of abandoned mica mine, 400 feet west of one-story frame house painted yellow, 600 feet east of one-story frame house painted white, and 4 feet inside field from wire fence 3 feet above road. A standard tablet stamped "LHT 1033 1939" and set in a concrete post.

Reference Mark 1: 3.3 feet East to telephone pole (painted PBM).
Reference Mark 2: 121.2 feet Northwest to north end of center line concrete headwall of culvert.
Reference Mark 3: 24.0 feet Southwest to center line of road.
ELEVATION: 1982.913 feet or 604.393 meters (T-2)

LHT 1041 (TVA, 1938; Swain County, North Carolina)

Located 1.1 miles southeast of railroad station at Whittier, on Connelly Creek road, on property of J. L. Williamson, on north side of front yard, 1.5 feet south of paling fence around garden, in line with north side of woodshed, on north side of driveway into yard, approximately 3 feet below level of road. A standard tablet stamped "LHT 1041 1939" and set in concrete post.

Reference Mark 1: 35.1 feet East to center line of road.
Reference Mark 2: 35.0 feet Southwest to northeast corner of house.
Reference Mark 3: 37.6 feet West to northeast corner of woodshed.
ELEVATION: 1901.748 feet or 579.654 meters (T-2)

LHT 1042 (TVA, 1938; Swain County, North Carolina)

Located 2.2 miles south of railroad station at Whittier, on Connelly Creek road, on property of J. H. Parish, at a T-road southwest up Wesser Creek, at southeast end of old building located at forks of road, at north corner of cultivated field, about 3.0 feet below surface of Connelly Creek road. A standard tablet stamped "LHT 1042 1939" in concrete monument flush with ground.

Reference Mark 1: 19.7 feet Southeast to center line of Connelly Creek road.
Reference Mark 2: 85.5 feet West to center line of Wesser Creek road.
Reference Mark 3: 4.3 feet West to south corner of old building.
ELEVATION: 1982.421 feet or 604.243 meters (T-2)

LHT 1043 (TVA, 1938; Swain County, North Carolina)

Located 3.0 miles south of railroad station at Whittier, on Connelly Creek road, on property of M. C. Childers, on west side of road, about 150 feet northwest of two-story frame house (white), 200 feet south of one and one-half story (brown) boxed house on side of hill, bench is at old frame house on west side of road, 47 feet north of center line of small drain. A standard tablet stamped "LHT 1043 1939" and set in top of concrete post.

Reference Mark 1: 13.5 feet North to 26-inch oak.
Reference Mark 2: 37.4 feet Northeast to center line of road.
Reference Mark 3: 10.9 feet West to southwest corner of old building.
ELEVATION: 2090.078 feet or 637.057 meters (T-2)

LHT 1044 (TVA, 1938; Swain County, North Carolina)

Located 3.9 miles south of railroad station at Whittier, on Connelly Creek road, on property of Charley Gibson, on north side of road, across road

from old church location, across road from gravel pits, 350 feet northeast from small one-story frame house, set along fence line (barb) running north and south, 500 feet south of old one-story frame house, at point where road starts up mountain, 30.0 feet north of dim field road east, 150 feet north of fork across creek. A standard tablet stamped "LHT 1044 1939" and set in top of concrete monument.

Reference Mark 1: 10 feet West to fence corner post.
Reference Mark 2: 23.3 feet West to center line of road.
Reference Mark 3: 59.5 feet North to 16-inch apple tree.
Reference Mark 4: 23.2 feet South to gate post.
ELEVATION: 2172.745 feet or 662.254 meters (T-2)

LHT 1045 (TVA, 1938; Swain County, North Carolina)

Located 4.8 miles south of railroad station at Whittier, on Connelly Creek road, 0.4 mile south of second hairpin curve going up mountain, in north base of huge boulder on east side of road, at base of small tree growing along side of boulder, 12 feet above road, on downhill side of boulder. A standard tablet stamped "LHT 1045 1939" and set in a boulder.

Reference Mark 1: 28.6 feet Southwest to center line of road.
Reference Mark 2: 10.0 feet West to 8-inch hickory.
Reference Mark 3: 23.0 feet North to 14-inch oak.
ELEVATION: 2483.118 feet or 756.856 meters (T-2)

LHT 1046 (TVA, 1938; Swain County, North Carolina)

Located 5.6 miles south of railroad station at Whittier, on Connelly Creek road, on property of A. J. Parris, on west side of road in front yard of A. J. Parris, in north side of yard in line with north side of house, and 125 feet north of road and creek crossing. A standard tablet stamped "LHT 1046 1939" and set in top of concrete monument.

Reference Mark 1: 18.1 feet West to northeast corner of house.
Reference Mark 2: 23.9 feet East to center line of road.
ELEVATION: 2729.988 feet or 832.102 meters (T-2)

LHT 1047 (TVA, 1938; Swain County, North Carolina)

Located 6.6 miles south of railroad station at Whittier, on Connelly Creek road, on property of Debourne and McQuinn, on east side of road, in top of boulder in center of small cultivated spot, 24.0 feet north of small drain crossing road, on east side of creek, 15.0 feet north of field road leading to field across creek, and west of house up hollow. A standard tablet stamped "LHT 1047 1939" and set in a boulder.

Reference Mark 1: 17.0 feet West to center line of road.
Reference Mark 2: 55.0 feet South to twin spruce.
ELEVATION: 3011.372 feet or 917.868 meters (T-2)

LHT 1048 (TVA, 1938; Swain County, North Carolina)

Located 7.6 miles south of railroad station at Whittier, on Connelly Creek road, on property of R. L. Hyatt, on inside of hairpin curve, on north side of road, south end of cleared field, about 0.1 mile south of Y-road to farm house and creek and road intersection, and 3.5 feet above level of road. A standard tablet stamped "LHT 1048 1939" and set in top of a concrete post.

Reference Mark 1: 60.0 feet South to center line of creek and trail intersection.
Reference Mark 2: 24.0 feet Southeast to center line of road on east side of curve and field.
Reference Mark 3: 44.0 feet Southeast to 18-inch poplar tree.
ELEVATION: 3386.916 feet or 1032.334 meters (T-2)

LHT 1049 (TVA, 1938; Swain County, North Carolina)

Located 9.0 miles south of Whittier, at Wesser Gap, 2.5 miles north of Leatherman Gap, on Whittier-Leatherman Gap road, on property of R. L. and J. J. Revis, on east side of road, 39 feet from center line of road, 31.6 feet south of barbed wire fence, at edge of woods line in Wesser Gap. A standard tablet stamped "LHT 1049 1939" and set in a concrete post.

Reference Mark 1: 39.0 feet West to center line of road.
Reference Mark 2: 54.5 feet Northwest to east gate post.
Reference Mark 3: 35.0 feet South to 20-inch white oak (painted arrow).
ELEVATION: 4251.307 feet or 1295.801 meters (T-2)

LHT 1050 (TVA, 1938; Swain County, North Carolina)

Located 9.9 miles south of Whittier, 0.9 miles south of Wesser Gap, 1.6 miles north of Leatherman Gap, on Whittier-Leatherman Gap road, on property of R. L. and J. J. Revis, in Big Laurel section, 65 paces north of ford at Alarka Creek, on west side road, 34 feet from center line road, 94 paces southwest of lone 15-inch apple tree which stands in large clearing and inclosed with pole fence, at southeast corner of large clearing. A standard tablet stamped "LHT 1050 1939" and set in concrete post.

Reference Mark 1: 34.0 feet Southeast to center line of road.
Reference Mark 2: 29.0 feet Northeast to 48-inch post oak tree (painted BM).
Reference Mark 3: 76.5 feet Northwest to 14-inch red oak which stands along southwest edge clearing.
ELEVATION: 4075.789 feet or 1242.303 meters (T-2)

LHT 1051 (TVA, 1938; Swain County, North Carolina)

Located 10.6 miles south of Whittier, 1.6 miles south of Wesser Gap, 0.9 miles northeast of Leatherman Gap, at intersection of Whittier-Leatherman Gap and Cowee Bald Fire Tower roads, in Nantahala National Forest, on east side of intersection. A standard tablet stamped "LHT 1051 1939" and set in a concrete post.

Reference Mark 1: 28.0 feet Southwest to center line at Y-road intersection.
Reference Mark 2: 28.0 feet Northwest to 6-inch white oak in Y.
Reference Mark 3: 33.0 feet Northeast to telephone pole.
ELEVATION: 4225.674 feet or 1287.988 feet (T-2)

LHT 1052 (TVA, 1938; Macon-Swain Counties, North Carolina)

Located 11.5 miles south of Whittier, 2.5 miles southwest of Wesser Gap, 9.0 miles north of Wests Mills Post Office, at Leatherman Gap, on Whittier-Leatherman Gap road, in Nantahala National Forest, on west side of road, 38 feet from center line of road, 8 feet above level of road at gap. A standard tablet stamped "LHT 1052 1939" and set in a concrete post.

Reference Mark 1: 38.0 feet Southeast to center line of road.
Reference Mark 2: 4.5 feet Northeast to 10-inch locust tree (painted P).
Reference Mark 3: 32.5 feet Southwest to 36-inch red oak tree.
ELEVATION: 4153.407 feet or 1265.961 meters (T-2)

LHT 1053 (TVA, 1938; Macon County, North Carolina)

Located 15.0 miles north of courthouse at Franklin, 8.0 miles north of Wests Mill Post Office, 0.9 miles southwest of Leatherman Gap, on Huckleberry Creek-Leatherman Gap road, in Nantahala National Forest, on north side of road, 25 feet from center line of road, 0.3 miles northeast of sharp hairpin curve near head of Shepherd Creek, about 10 feet above elevation of road surface, and set in step of large rock outcrop. A standard tablet stamped "LHT 1053 1939".

Reference Mark 1: 19.0 feet Southwest to north end of 15-inch metal culvert.
Reference Mark 2: 32.0 feet West to 24-inch black gum tree.
Reference Mark 3: 21.0 feet Northeast to 24-inch post oak tree.
ELEVATION: 3791.751 feet or 1155.728 meters (T-2)

LHT 1054 (TVA, 1938; Macon County, North Carolina)

Located 14.0 miles north of courthouse in Franklin, 7.0 miles north of Wests Mill Post Office, 1.9 miles south of Leatherman Gap, on Huckleberry Creek-Leatherman Gap road, in Nantahala National Forest, on north side of new road to Leatherman Gap, on west side of old Leatherman Gap trail, on right bank of west prong of Huckleberry Creek, 41 feet northwest of center line of old and new roads, where they cross west prong of Huckleberry Creek. A standard tablet stamped "LHT 1054 1939" and set in a concrete post.

Reference Mark 1: 23.0 feet Southeast to north end of 18-inch corrugated metal culvert.
Reference Mark 2: 31.5 feet Northeast to 30-inch buckeye tree.
Reference Mark 3: 37.0 feet South to center line of new Leatherman Gap road.
ELEVATION: 3377.109 feet or 1029.345 meters (T-2)

LHT 1055 (TVA, 1938; Macon County, North Carolina)

Located 13.2 miles north of courthouse in Franklin, 6.3 miles north of Wests Mills Post Office, 3.2 miles north of Leatherman Post Office, on Huckleberry Creek-Leatherman Gap road, in Nantahala National Forest, on right bank of Huckleberry Creek, west side of Huckleberry creek road, 2 feet west of wire fence in edge of pasture field, at Y-intersection of old and new roads up Huckleberry Creek, 34 feet west of center line of road, 138 feet west of lone 30-inch spruce pine tree which stands inside horseshoe bend in road. A standard tablet stamped "LHT 1055 1939" and set in a concrete post.

Reference Mark 1: 20.5 feet North to west end of corrugated metal culvert.
Reference Mark 2: 70.0 feet East to west end of corrugated metal culvert.
Reference Mark 3: 9.5 feet Northwest to twin 18-inch poplar trees.
ELEVATION: 3115.512 feet or 949.610 meters (T-2)

LHT 1056 (TVA, 1938; Macon County, North Carolina)

Located 12.2 miles north of courthouse in Franklin, 5.3 miles north of Leatherman Post Office, on Huckleberry Creek-Leatherman Gap road, on property of Sam Gibson, on west side of road, 25 feet from center line of road, on left bank of small branch, about five feet below road surface. A standard tablet stamped "LHT 1056 1939" and set in a concrete post.

Reference Mark 1: 20.5 feet Southeast to west end of corrugated metal culvert.
Reference Mark 2: 15.0 feet South to center line of branch.
Reference Mark 3: 9.0 feet Northwest to 8-inch poplar (painted PEM).
GRID POSITION (N.C.): X = 695,635.2; Y = 595,192.1 (T-4)
ELEVATION: 2741.930 feet or 835.742 meters (T-2)

LHT 1057 (TVA, 1938; Macon County, North Carolina)

Located 11.3 miles north of courthouse in Franklin, 4.4 miles north of Wests Mill Post Office, on the Old Huckleberry Creek road, on left bank of Huckleberry Creek, on the north side of old road up Huckleberry Creek, 7.5 feet northeast of center line of old road, 200 feet north of a Nantahala Power and Light Transmission Line. A standard tablet stamped "LHT 1057 1939" and set horizontally in a rock outcrop.

Reference Mark 1: 70.0 feet Southwest to center line of new road and T-road intersection northeast.
Reference Mark 2: 25.5 feet Southwest to north corner of wood bridge.
Reference Mark 3: 28.0 feet South to center line of Huckleberry Creek.
ELEVATION: 2301.455 feet or 701.485 meters (T-2)

LHT 1058 (TVA, 1938; Macon County, North Carolina)

Located 3.2 miles northeast of Wests Mill Post Office at Leatherman Post Office, 10.3 miles north of courthouse in Franklin, on Cowee road, on property of John Shepherd Heirs, southwest of T-road intersection from the northwest, across road from post office, 200 feet southwest of E. O. Rickman's house across road from Forest Service Fire Sign. A standard tablet stamped "LHT 1058 1939" and set in a concrete post.

Reference Mark 1: 14.7 feet Northwest to center line of Cowee road.
Reference Mark 2: 4.8 feet Southwest to telephone pole (painted PEM).
Reference Mark 3: 80.5 feet North to southwest corner of Post Office.
ELEVATION: 2191.921 feet or 668.099 meters (T-2)

LHT 1059 (TVA, 1938; Macon County, North Carolina)

Located 2.3 miles northwest of Wests Mill Post Office, 9.2 miles northeast of courthouse in Franklin on Cowee road, on property of Jim Holbrook, at edge of road right-of-way, north of Y-road intersections, on west side of Cowee road, at southeast corner, 250 feet northwest of two-story frame house, and 200 feet west of Shepherd Cemetery. A standard tablet stamped "LHT 1059 1939" and set in a concrete post.

Reference Mark 1: 18 feet East to center line of Cowee road.
Reference Mark 2: 3 feet North to southeast corner of barn.
Reference Mark 3: 32.6 feet South to southeast corner of barn yard fence
ELEVATION: 2072.447 feet or 631.683 meters (T-2)

LHT 1060 (TVA, 1938; Macon County, North Carolina)

Located 1.5 miles east of Wests Mill Post Office, 8.4 miles northeast of courthouse in Franklin, on Cowee road, on property of Jim Holbrook, on west side of Cowee road, left bank of Cowee Creek, southwest of wood bridge, 150 feet north of Y-road intersection, in corner of meadow. A standard tablet stamped "LHT 1060 1939" and set horizontally in rock outcrop.

Reference Mark 1: 29.5 feet East to center line of Cowee road.
Reference Mark 2: 40.5 feet Northeast to southwest end of wood bridge.
Reference Mark 3: 35.5 feet North to triple 6-inch beech trees.
ELEVATION: 2009.655 feet or 612.544 meters (T-2)

ELEVATION: 2009.655 feet or 612.544 meters (T-2)

LHT 1061 (TVA, 1938; Macon County, North Carolina)

Located 0.9 miles east of Wests Mill Post Office, 7.8 miles northwest of courthouse in Franklin, on Cowee road right-of-way, near Joe Dalton's house, on east side of road, north edge of deep earth cut, east of drive to Joe Dalton's house, southeast of garage cut into east side of cut. A standard tablet stamped "LHT 1061 1939" and set in a concrete post.

Reference Mark 1: 22.5 feet West to center line of Cowee road.
Reference Mark 2: 29.0 feet North to drive to Joe Dalton's house.
Reference Mark 3: 16.5 feet Northeast to southwest corner of Joe Dalton's garage.
ELEVATION: 2048.844 feet or 624.489 meters (T-2)

LHT 1062 (TVA, 1938; Macon County, North Carolina)

Located 12.1 miles northwest of courthouse in Franklin, 17.4 miles southwest of courthouse in Bryson City, on Stiles Burningtown Creek road, 2.5 miles northwest of Etna Post Office, 0.5 miles downstream from Dean Island, on left bank of Little Tennessee River, about 50 feet from southwest end of Lost Bridge, southwest side of county road, 50 feet west of road intersection from up river, 20 feet from center line of county road, and 3 feet above road surface. A standard tablet stamped "LHT 1062 1939" and set horizontally in rock outcrop.

Reference Mark 1: 102.0 feet Northeast to center line southwest end of Lost Bridge.
Reference Mark 2: 18.0 feet East to small spring.
Reference Mark 3: 52.0 feet West to east edge of rock cut.
ELEVATION: 1902.431 feet or 579.862 meters (T-2)

LHT 1063 (TVA, 1938; Macon County, North Carolina)

Located 13.5 miles northwest of Franklin, at Stiles Post Office, at junction of Burningtown road with Tellico road, on property of Lillian Morgan heirs, on south side of road, in yard at Clyde Morgan's house, across road from cellar dug into bank of road, 100 feet southwest at entrance to post office, 2 feet above elevation of road, and 18 feet from center line of road. A standard tablet stamped "LHT 1063 1939" and set in a concrete post.

Reference Mark 1: 45.7 feet S 65° W to northeast corner of house occupied by Clyde Morgan.
Reference Mark 2: 12.0 feet N 65° E to Columbia poplar.
Reference Mark 3: 34.4 feet North to entrance of cellar.
ELEVATION: 1937.992 feet or 590.701 meters (T-2)

LHT 1064 (TVA, 1938; Macon County, North Carolina)

Located 11.4 miles northwest of Franklin, 1.1 mile southeast of post office at Stiles, on Burningtown road, on property of L. F. Owenby, on west side of county road, 55 feet from center line of road, near Y-road intersection northeast to Dean Island, 600 feet northwest of Vina Holbrook's house, on top of small ridge running southwest to Burningtown Creek, covered with small undergrowth, same elevation as road surface. A standard tablet stamped "LHT 1064 1939" and set in a concrete post.

Reference Mark 1: 21.9 feet S 61° W to 5-inch black oak tree.
Reference Mark 2: 55.0 feet Northeast to center line of county road.
Reference Mark 3: 85.0 feet N 25° E to center line of county road at Y-road intersection northeast.
ELEVATION: 1990.049 feet or 606.568 meters (T-2)

LHT 1065 (TVA, 1938; Macon County, North Carolina)

Located 10.4 miles northwest of Franklin, 2.0 miles southeast of post office at Stiles, on Burningtown road, on property of Will Dowell, on east side of county road, south side of T-road intersection from east, 32 feet from center line of county road at intersection, 400 feet south of Frank Waldroups house, on left bank of branch, 64 feet from center line of road and wood bridge over branch, same elevation as road surface. A standard tablet stamped "LHT 1065 1939" and set in a concrete post.

Reference Mark 1: 58.5 feet N 30° E to southwest corner of small wood bridge.
Reference Mark 2: 44.0 feet S 40° W to 5-inch twin poplar trees.
Reference Mark 3: 20.0 feet Northwest to center line of Burningtown road.
ELEVATION: 1975.446 feet or 602.117 meters (T-2)

LR 379 (TVA, 1939; Swain County, North Carolina)

Located 4 miles (airline) southeast of Bryson, on top of Fry Mountain. To reach from Bryson at Swain County Courthouse, drive east on U. S. Highway 19 1.5 miles to road right at old mill building. Turn right on Kirkland Creek road 0.3 miles to fork. Bear left 0.7 miles to fork, then bear left up East Fork Kirkland Creek 1.5 miles to fork, and again bear left 0.2 miles to fork, bear left across creek, then follow road back across to left bank and up steep grade 500 feet to old log house. Take right hand trail and follow good graded trail, leaving old log dump to left, 1 mile to gap, then continue to left in same trail 1/2 mile to Fry Fire Tower. Station is 40 feet south of center line of tower in cleared field. A 1-by 1-inch angle iron stamped "TVA LR 379 1939" projecting 0.4 feet above ground.

Reference Mark 1: 41.9 feet North to center line of Fry Fire Tower.
Reference Mark 2: 29.0 feet N 20° E to iron pipe (G.L.O.S.).
GRID POSITION (N.C.): X = 684,599.4; Y = 622,922.7 (T-4)
ELEVATION: 4498 feet (T-5)

LR 394 (TVA, 1939; Swain County, North Carolina)

Located about 8 miles southwest of Bryson City. To reach, drive 5.6 miles south on State Highway 28 from U.S. Highway 19. Turn left at forks and continue 0.5 miles to sharp U-bend to right. Station is 300 feet southeast of bend on bank 25 feet northeast of road center line. A 1-by 1-inch angle iron stamped "TVA LR 394 1939".

Reference Mark 1: 11.60 feet N 35° E to 6-inch twin oak (blazed triangle).
Reference Mark 2: 17.90 feet East to 8-inch oak (blazed triangle).
Reference Mark 3: 18.95 feet S 32° E to 10-inch oak (blazed triangle).
GRID POSITION (N.C.): X = 658,905.5; Y = 601,349.5 (T-4)
ELEVATION: 1988 feet (T-5)

LR 397 (TVA, 1939; Macon County, North Carolina)

Located 9 miles (airline) southwest from Dillsboro. To reach from Dillsboro, drive south on U.S. Highway 23 12.3 miles to Watauga Gap at

LHT 1053 (TVA, 1938; Macon County, North Carolina)

Located 15.0 miles north of courthouse at Franklin, 8.0 miles north of Wests Mill Post Office, 0.9 miles southwest of Leatherman Gap, on Huckleberry Creek-Leatherman Gap road, in Nantahala National Forest, on north side of road, 25 feet from center line of road, 0.3 miles northeast of sharp hairpin curve near head of Shepherd Creek, about 10 feet above elevation of road surface, and set in step of large rock outcrop. A standard tablet stamped "LHT 1053 1939".

Reference Mark 1: 19.0 feet Southwest to north end of 15-inch metal culvert.
Reference Mark 2: 32.0 feet West to 24-inch black gum tree.
Reference Mark 3: 21.0 feet Northeast to 24-inch post oak tree.

ELEVATION: 3791.751 feet or 1155.728 meters (T-2)

LHT 1054 (TVA, 1938; Macon County, North Carolina)

Located 14.0 miles north of courthouse in Franklin, 7.0 miles north of Wests Mill Post Office, 1.9 miles south of Leatherman Gap, on Huckleberry Creek-Leatherman Gap road, in Nantahala National Forest, on north side of new road to Leatherman Gap, on west side of old Leatherman Gap trail, on right bank of west prong of Huckleberry Creek, 41 feet northwest of center line of old and new roads, where they cross west prong of Huckleberry Creek. A standard tablet stamped "LHT 1054 1939" and set in a concrete post.

Reference Mark 1: 23.0 feet Southeast to north end of 18-inch corrugated metal culvert.
Reference Mark 2: 31.5 feet Northeast to 30-inch buckeye tree.
Reference Mark 3: 37.0 feet South to center line of new Leatherman Gap road.

ELEVATION: 3377.109 feet or 1029.345 meters (T-2)

LHT 1055 (TVA, 1938; Macon County, North Carolina)

Located 13.2 miles north of courthouse in Franklin, 6.3 miles north of Wests Mills Post Office, 3.2 miles north of Leatherman Post Office, on Huckleberry Creek-Leatherman Gap road, in Nantahala National Forest, on right bank of Huckleberry Creek, west side of Huckleberry creek road, 2 feet west of wire fence in edge of pasture field, at Y-intersection of old and new roads up Huckleberry Creek, 34 feet west of center line of road, 138 feet west of lone 30-inch spruce pine tree which stands inside horseshoe bend in road. A standard tablet stamped "LHT 1055 1939" and set in a concrete post.

Reference Mark 1: 20.5 feet North to west end of corrugated metal culvert.
Reference Mark 2: 70.0 feet East to west end of corrugated metal culvert.
Reference Mark 3: 9.5 feet Northwest to twin 18-inch poplar trees.

ELEVATION: 3115.512 feet or 949.610 meters (T-2)

LHT 1056 (TVA, 1938; Macon County, North Carolina)

Located 12.2 miles north of courthouse in Franklin, 5.3 miles north of Leatherman Post Office, on Huckleberry Creek-Leatherman Gap road, on property of Sam Gibson, on west side of road, 25 feet from center line of road, on left bank of small branch, about five feet below road surface. A standard tablet stamped "LHT 1056 1939" and set in a concrete post.

Reference Mark 1: 20.5 feet Southeast to west end of corrugated metal culvert.
Reference Mark 2: 15.0 feet South to center line of branch.
Reference Mark 3: 9.0 feet Northwest to 8-inch poplar (painted PBM).

GRID POSITION (N.C.): X = 695,635.2; Y = 595,192.1 (T-4)

ELEVATION: 2741.930 feet or 835.742 meters (T-2)

LHT 1057 (TVA, 1938; Macon County, North Carolina)

Located 11.3 miles north of courthouse in Franklin, 4.4 miles north of Wests Mill Post Office, on the Old Huckleberry Creek road, on left bank of Huckleberry Creek, on the north side of old road up Huckleberry Creek, 7.5 feet northeast of center line of old road, 200 feet north of a Nantahala Power and Light Transmission line. A standard tablet stamped "LHT 1057 1939" and set horizontally in a rock outcrop.

Reference Mark 1: 70.0 feet Southwest to center line of new road and T-road intersection northeast.
Reference Mark 2: 25.5 feet Southwest to north corner of wood bridge.
Reference Mark 3: 28.0 feet South to center line of Huckleberry Creek.

ELEVATION: 2301.455 feet or 701.485 meters (T-2)

LHT 1058 (TVA, 1938; Macon County, North Carolina)

Located 3.2 miles northeast of Wests Mill Post Office at Leatherman Post Office, 10.3 miles north of courthouse in Franklin, on Cowee road, on property of John Shepherd Heirs, southwest of T-road intersection from the northwest, across road from post office, 200 feet southwest of E. O. Rickman's house across road from Forest Service Fire Sign. A standard tablet stamped "LHT 1058 1939" and set in a concrete post.

Reference Mark 1: 14.7 feet Northwest to center line of Cowee road.
Reference Mark 2: 4.8 feet Southwest to telephone pole (painted PBM).
Reference Mark 3: 80.5 feet North to southwest corner of Post Office.

ELEVATION: 2191.921 feet or 668.099 meters (T-2)

LHT 1059 (TVA, 1938; Macon County, North Carolina)

Located 2.3 miles northwest of Wests Mill Post Office, 9.2 miles northeast of courthouse in Franklin on Cowee road, on property of Jim Holbrook, at edge of road right-of-way, north of Y-road intersections, on west side of Cowee road, at southeast corner, 250 feet northwest of two-story frame house, and 200 feet west of Shepherd Cemetery. A standard tablet stamped "LHT 1059 1939" and set in a concrete post.

Reference Mark 1: 18 feet East to center line of Cowee road.
Reference Mark 2: 3 feet North to southeast corner of barn.
Reference Mark 3: 32.6 feet South to southeast corner of barn yard fence.

ELEVATION: 2072.447 feet or 631.683 meters (T-2)

LHT 1060 (TVA, 1938; Macon County, North Carolina)

Located 1.5 miles east of Wests Mill Post Office, 8.4 miles northeast of courthouse in Franklin, on Cowee road, on property of Jim Holbrook, on west side of Cowee road, left bank of Cowee Creek, southwest of wood bridge, 150 feet north of Y-road intersection, in corner of meadow. A standard tablet stamped "LHT 1060 1939" and set horizontally in rock outcrop.

Reference Mark 1: 29.5 feet East to center line of Cowee road.
Reference Mark 2: 40.5 feet Northeast to southwest end of wood bridge.
Reference Mark 3: 35.5 feet North to triple 6-inch beech trees.

ELEVATION: 2009.655 feet or 612.544 meters (T-2)

LHT 1061 (TVA, 1938; Macon County, North Carolina)

Located 0.9 miles east of Wests Mill Post Office, 7.8 miles northwest of courthouse in Franklin, on Cowee road right-of-way, near Joe Dalton's house, on east side of road, north edge of deep earth cut, east of drive to Joe Dalton's house, southeast of garage cut into east side of cut. A standard tablet stamped "LHT 1061 1939" and set in a concrete post.

Reference Mark 1: 22.5 feet West to center line of Cowee road.
Reference Mark 2: 29.0 feet North to drive to Joe Dalton's house.
Reference Mark 3: 16.5 feet Northeast to southwest corner of Joe Dalton's garage.

ELEVATION: 2048.844 feet or 624.489 meters (T-2)

LHT 1062 (TVA, 1938; Macon County, North Carolina)

Located 12.1 miles northwest of courthouse in Franklin, 17.4 miles southwest of courthouse in Bryson City, on Stiles Burningtown Creek road, 2.5 miles northwest of Etna Post Office, 0.5 miles downstream from Dean Island, on left bank of Little Tennessee River, about 50 feet from southwest end of Lost Bridge, southwest side of county road, 50 feet west of road intersection from up river, 20 feet from center line of county road, and 3 feet above road surface. A standard tablet stamped "LHT 1062 1939" and set horizontally in rock outcrop.

Reference Mark 1: 102.0 feet Northeast to center line southwest end of Lost Bridge.
Reference Mark 2: 18.0 feet East to small spring.
Reference Mark 3: 52.0 feet West to east edge of rock cut.

ELEVATION: 1902.431 feet or 579.862 meters (T-2)

LHT 1063 (TVA, 1938; Macon County, North Carolina)

Located 13.5 miles northwest of Franklin, at Stiles Post Office, at junction of Burningtown road with Tellico road, on property of Lillian Morgan heirs, on south side of road, in yard at Clyde Morgan's house, across road from cellar dug into bank of road, 100 feet southwest at entrance to post office, 2 feet above elevation of road, and 18 feet from center line of road. A standard tablet stamped "LHT 1063 1939" and set in a concrete post.

Reference Mark 1: 45.7 feet S 65° W to northeast corner of house occupied by Clyde Morgan.
Reference Mark 2: 12.0 feet N 65° E to Columbia poplar.
Reference Mark 3: 34.4 feet North to entrance of cellar.

ELEVATION: 1937.992 feet or 590.701 meters (T-2)

LHT 1064 (TVA, 1938; Macon County, North Carolina)

Located 11.4 miles northwest of Franklin, 1.1 mile southeast of post office at Stiles, on Burningtown road, on property of L. F. Owenby, on west side of county road, 55 feet from center line of road, near Y-road intersection northeast to Dean Island, 600 feet northwest of Vina Holbrook's house, on top of small ridge running southwest to Burningtown Creek, covered with small undergrowth, same elevation as road surface. A standard tablet stamped "LHT 1064 1939" and set in a concrete post.

Reference Mark 1: 21.9 feet S 61° W to 5-inch black oak tree.
Reference Mark 2: 55.0 feet Northeast to center line of county road.
Reference Mark 3: 85.0 feet N 25° E to center line of county road at Y-road intersection northeast.

ELEVATION: 1990.049 feet or 606.568 meters (T-2)

LHT 1065 (TVA, 1938; Macon County, North Carolina)

Located 10.4 miles northwest of Franklin, 2.0 miles southeast of post office at Stiles, on Burningtown road, on property of Will Dowell, on east side of county road, south side of T-road intersection from east, 32 feet from center line of county road at intersection, 400 feet south of Frank Waldrouse house, on left bank of branch, 64 feet from center line of road and wood bridge over branch, same elevation as road surface. A standard tablet stamped "LHT 1065 1939" and set in a concrete post.

Reference Mark 1: 58.5 feet N 30° E to southwest corner of small wood bridge.
Reference Mark 2: 44.0 feet S 40° W to 5-inch twin poplar trees.
Reference Mark 3: 20.0 feet Northwest to center line of Burningtown road.

ELEVATION: 1975.446 feet or 602.117 meters (T-2)

LR 379 (TVA, 1939; Swain County, North Carolina)

Located 4 miles (airline) southeast of Bryson, on top of Fry Mountain. To reach from Bryson at Swain County Courthouse, drive east on U. S. Highway 19 1.5 miles to road right at old mill building. Turn right on Kirkland Creek road 0.3 miles to fork. Bear left 0.7 miles to fork, then bear left East Fork Kirkland Creek 1.5 miles to fork, and again bear left 0.2 miles to fork, bear left across creek, then follow road back across to left bank and up steep grade 500 feet to old log house. Take right hand trail and follow good graded trail, leaving old log dump to left, 1 mile to gap, then continue to left in same trail 1/2 mile to Fry Fire Tower. Station is 40 feet south of center line of tower in cleared field. A 1-by-1-inch angle iron stamped "TVA LR 379 1939" projecting 0.4 feet above ground.

Reference Mark 1: 41.9 feet North to center line of Fry Fire Tower.
Reference Mark 2: 29.0 feet N 20° E to iron pipe (G.I.O.S.).
GRID POSITION (N.C.): X = 684,599.4; Y = 622,982.7 (T-4)

ELEVATION: 4498 feet (T-5)

LR 394 (TVA, 1939; Swain County, North Carolina)

Located about 8 miles southwest of Bryson City. To reach, drive 5.6 miles south on State Highway 28 from U.S. Highway 19. Turn left at forks and continue 0.6 miles to sharp U-bend to right. Station is 300 feet southeast of bend on bank 25 feet northeast of road center line. A 1-by-1-inch angle iron stamped "TVA LR 394 1939".

Reference Mark 1: 11.60 feet N 35° E to 6-inch twin oak (blazed triangle).
Reference Mark 2: 17.90 feet East to 8-inch oak (blazed triangle).
Reference Mark 3: 18.95 feet S 32° E to 10-inch oak (blazed triangle).

GRID POSITION (N.C.): X = 658,905.5; Y = 601,349.5 (T-4)

ELEVATION: 1988 feet (T-5)

LR 397 (TVA, 1939; Macon County, North Carolina)

Located 9 miles (airline) southwest from Dillsboro. To reach from Dillsboro, drive south on U.S. Highway 23 12.3 miles to Watauga Gap at

Macon-Jackson county line, continue 0.3 miles on highway to side road to right, turn on dirt side road and continue 0.8 miles to point where road leaves ridge line, walk west on ridge 0.5 miles to knob at sharp bend in ridge. Station is 150 feet west of peak of wooded knob and 50 feet uphill from group of pines on hillside. A 1- by 1-inch angle iron stamped "TVA LR 397 1939".

Reference Mark 1: 7.4 feet S 20° E to 12-inch dead chestnut.
Reference Mark 2: 12.0 feet N 70° E to 8-inch pine.
Reference Mark 3: 21.9 feet West to 12-inch oak.
GRID POSITION (N.C.): X = 706,290.1; Y = 575,343.3 (T-4)
ELEVATION: 3389 feet (T-5)

LR 401 (TVA, 1939; Swain County, North Carolina)

Located about 4.5 miles (airline) south of Bryson City, and 0.5 miles (airline) southwest of Alarka. To reach from Bryson City, drive southwest on U.S. Highway 19, 3.5 miles; turn left on Alarka road, go 4.7 miles to Alarka, on high grassy knob, 50 feet northeast of high point and 10 feet east of woods line. A 1- by 1-inch angle iron.

Reference Mark 1: 45.8 feet North to 10-inch dead oak.
Reference Mark 2: 34.4 feet Southwest to 6-inch locust.
GRID POSITION (N.C.): X = 671,750.0; Y = 612,517.0 (T-4)
ELEVATION: 2925 feet (T-5)

LR 404 (TVA, 1939; Swain County, North Carolina)

Located 4-1/2 miles (airline) north of Bryson City, on Noland Divide in Smoky Mountains National Park. To reach from Bryson City, drive 3.5 miles on gravel road up Deep Creek to National Park Service gate, walk up trail to left, 300 feet southwest of gate, to top of Noland ridge and continue up ridge and trail 4.5 miles, in all, to station, on last knob on sharp ridge 0.5 miles before reaching Coburn Knob, and 150 feet south of top of knob. A 1- by 1-inch angle iron stamped "TVA LR 404 1939".

Reference Mark 1: 10.45 feet East to blazed triangle on 10-inch oak.
Reference Mark 2: 11.30 feet N 20° E to blazed triangle on 15-inch oak.
Reference Mark 3: 19.10 feet S 30° W to blazed triangle on 12-inch oak.
GRID POSITION (N.C.): X = 672,344.8; Y = 665,264.4 (T-4)
ELEVATION: 4470 feet (T-5)

LR 406 (TVA, 1939; Swain County, North Carolina)

Located at the north edge of Bryson City, 1.6 feet north of a power line pole in the middle of Bryson City Golf Course about 150 feet east of Hole 7. A 1- by 1-inch angle iron stamped "TVA LR 406 1939".

GRID POSITION (N.C.): X = 676,855.7; Y = 643,009.0 (T-4)
ELEVATION: 1837 feet (T-5)

LR 407 (TVA, 1939; Swain County, North Carolina)

Located 4 miles (airline) east from Bryson City. To reach from Whittier, drive 0.3 miles south from Tuckasee River bridge on gravel road to T-road west, turn right and continue 0.8 miles to T-road right, turn right and follow dirt road up hill 1.5 miles to sharp left curve where road crosses ridge line. Station is 10 feet north of center line of road about 100 feet above point of curve. A 1- by 1-inch angle iron stamped "TVA LR 407 1939".

Reference Mark 1: 20.65 feet N 30° E to blazed triangle on 6-inch ash.
Reference Mark 2: 35.65 feet N 75° E to blazed triangle on 8-inch pine.
Reference Mark 3: 4.83 feet S 30° W to blazed triangle on 6-inch pine.
GRID POSITION (N.C.): X = 696,150.5; Y = 639,212.5 (T-4)
ELEVATION: 2562 feet (T-5)

LR 408 (TVA, 1939; Swain County, North Carolina)

Located 4-1/2 miles northeast from Bryson City. To reach from Bryson City, drive east on U.S. Highway 19, 4.3 miles to T-road left at shed house and branch, walk up cleared hill from house east 200 feet to station, on northwest slope of hill 200 feet above fence near a twin dogwood. A 1- by 1-inch angle iron stamped "TVA LR 408 1939".

Reference Mark 1: 6.90 feet S 60° E to 6-inch twin dogwood.
Reference Mark 2: 7.23 feet S 20° W to 1-inch oak bush.
Reference Mark 3: 14.86 feet N 10° E to 30-inch stump.
GRID POSITION (N.C.): X = 693,811.0; Y = 647,870.8 (T-4)
ELEVATION: 1869 feet (T-5)

LR 409 (TVA, 1939; Swain County, North Carolina)

Located 6 miles (airline) northeast from Bryson City. To reach from Bryson City, drive from courthouse 4.5 miles east on U.S. Highway 19 to gravel road to left, turn left and follow Cooper Creek road 3.3 miles to house and old skid trail to right, walk up skid trail 0.3 miles to gap and left (north) 1000 feet to top of ridge. Station is on peak of knob at ridge intersection and at sharp bend in trail. A 1- by 1-inch angle iron stamped "TVA LR 409 1939".

Reference Mark 1: 14.1 feet S 65° W to blazed 15-inch twin chestnut.
Reference Mark 2: 28.20 feet N 60° E to blazed triangle on 6-inch pine.
Reference Mark 3: 18.95 feet S 40° E to fence post.
GRID POSITION (N.C.): X = 700,266.0; Y = 659,718.1 (T-4)
ELEVATION: 2824 feet (T-5)

LR 410 (TVA, 1939; Jackson County, North Carolina)

Located 6 miles east (airline) from Bryson City. To reach from Whittier, drive north 0.5 miles on U.S. Highway 19 to T-road right, turn right on gravel road and continue 1.4 miles to forks of road, continue to right, about 0.3 miles to first house on left near sharp curve to left, walk up bare hill to right, 1000 feet southwest to station on ridge. Station is 25 feet east of center line of ridge, 100 feet uphill from lone hickory, and 50 feet northeast from top of hill. A 1- by 1-inch angle iron stamped "TVA LR 410 1939".

Reference Mark 1: 27.90 feet S 60° W to chestnut stump
Reference Mark 2: 31.60 feet N 60° W to chestnut stump.
Reference Mark 3: 40.60 feet North to chestnut stump.
GRID POSITION (N.C.): X = 707,995.7; Y = 642,349.6 (T-4)
ELEVATION: 2063 feet (T-5)

LR 411 (TVA, 1939; Swain-Jackson Counties, North Carolina)

Located 5 miles (airline) west from Dillsboro. To reach from Whittier, drive 7.0 miles south on gravel road up Connelly Creek to forks of road, drive to left 0.3 miles up steep woods road to Gunter Gap, walk north up ridge line 500 feet to station. Station is on ridge line 100 feet up ridge from grave yard, on top of partially cleared ridge. A 1- by 1-inch angle iron stamped "TVA LR 411 1939".

Reference Mark 1: 49.60 feet S 40° E to blazed triangle on 12-inch oak.
Reference Mark 2: 4.21 feet S 40° W to 3-inch oak.
GRID POSITION (N.C.): X = 707,907.5; Y = 614,482.4 (T-4)
ELEVATION: 3384 feet (T-5)

LR 412 (TVA, 1939; Jackson County, North Carolina)

Located 5 miles (airline) west from Dillsboro. To reach from Whittier, drive south 5.0 miles up gravel road up Connelly Creek to a school house, walk up trail east up ridge from point 100 feet north of school, to gap on top of ridge, walk up trail on top of ridge north 0.5 miles to second knob. Station is 30 feet north of southwest corner of field, 100 feet east of peak of knob and 100 feet south of point where trail enters field, at edge of cultivation line. A 1- by 1-inch angle iron stamped "TVA LR 412 1939".

Reference Mark 1: 3.85 feet S 10° W to 1-inch walnut.
Reference Mark 2: 12.45 feet S 50° W to 1-inch oak bush.
Reference Mark 3: 9.75 feet N 40° W to 3-inch oak.
GRID POSITION (N.C.): X = 707,326.9; Y = 620,960.4 (T-4)
ELEVATION: 3689 feet (T-5)

LR 413 (TVA, 1939; Jackson County, North Carolina)

Located 4 miles (airline) south from Dillsboro. To reach from Dillsboro, drive southwest on U.S. Highway 23 5.5 miles to T-road left at Savannah, turn left on gravel road and continue 0.4 miles to where farm road crosses gravel road, drive to right (south) on farm road 500 feet to ford, walk up trail to right and up bare ridge 1000 feet to station, on fence line, 50 feet uphill from group of small pines, and 50 feet uphill from a large lone pine tree near ridge line. A 1- by 1-inch angle iron stamped "TVA LR 413 1939".

Reference Mark 1: 4.05 feet N 10° E to fence post.
Reference Mark 2: 5.33 feet S 10° W to fence post.
Reference Mark 3: 43.7 feet N 55° E to 24-inch lone pine.
GRID POSITION (N.C.): X = 731,541.3; Y = 594,216.6 (T-4)
ELEVATION: 2364 feet (T-5)

LR 414 (TVA 1939; Jackson County, North Carolina)

Located 3 miles (airline) southeast from Cherokee. To reach from Cherokee, drive south on State Highway 107, 2.5 miles to road forks, turn left on gravel road and continue 1.2 miles to farm house 500 feet beyond Qualla Church, walk up ridge behind barn to station about 500 feet, in open pasture 300 feet uphill from barn, 20 feet north of ridge line and 50 feet east of corner of pasture. A 1- by 1-inch angle iron stamped "TVA LR 414 1939".

Reference Mark 1: 26.6 feet S 15° E to 15-inch oak blazed.
Reference Mark 2: 20.3 feet S 50° E to 20-inch oak blazed.
Reference Mark 3: 45.0 feet S 70° E to corner fence post.
GRID POSITION (N.C.): X = 721,261.0; Y = 640,573.5 (T-4)
ELEVATION: 2183 feet (T-5)

LR 415 (TVA, 1939; Macon County, North Carolina)

Located 7 miles (airline) north of Franklin, and 2 miles (by road) from Leatherman Post Office. To reach from Leatherman, drive northeast on gravel road 2.0 miles up Huckleberry Creek to a sharp bend to right at a trail leading up hollow northwest, walk up trail and left fork of hollow to head of left fork hollow 1000 feet. Station is 10 feet east of ridge line, 20 feet east of fence and woods line and 15 feet east of a 6-inch oak in cleared pasture. A 1- by 1-inch angle iron stamped "TVA LR 415 1939".

Reference Mark 1: 14.95 feet S 70° W to nail in 6-inch oak.
Reference Mark 2: 12.20 feet N 35° W to nail in 10-inch stump.
Reference Mark 3: 17.65 feet N 20° E to nail in 15-inch stump.
GRID POSITION (N.C.): X = 694,793.4; Y = 595,620.0 (T-4)
ELEVATION: 3148 feet (T-5)

LR 461 (TVA, 1939; Jackson County, North Carolina)

Located 5 miles (airline) southwest from Dillsboro. To reach from Dillsboro, drive southwest from road junction 7.9 miles on U.S. Highway 23 to a waterwheel at side of road, turn right up farm road 0.3 miles to old field enclosed by rail fence, walk across creek to left and up trail on west side of creek 0.8 miles to old house, take trail up hollow to right to top of ridge 0.5 miles, then left up ridge to top of knob 1500 feet. Station is on ridge line 20 feet west of west end of flat top of knob. A 1- by 1-inch stamped angle iron stamped "TVA LR 461 1939".

Reference Mark 1: 20.30 feet N 80° W to nail in blazed 18-inch oak.
Reference Mark 2: 15.60 feet N 15° E to nail in blazed 24-inch oak.
Reference Mark 3: 27.09 feet N 80° E to nail in blazed 10-inch oak.
GRID POSITION (N.C.): X = 719,412.3; Y = 594,551.8 (T-4)
ELEVATION: 3932 feet (T-5)

LR 463 (TVA, 1939; Jackson County, North Carolina)

Located 4 miles (airline) northeast of Cherokee. To reach from intersection of State Highway 107 and Soco Gap road at Cherokee, drive east on Soco Gap road 2 miles, turn left on Wrights Creek road and go 2.0 miles to Y-intersection, turn left and go 1.0 miles. Station is approximately 1000 feet east on top of ridge and 91 feet west of lone pine on top of ridge, on small round knob 300 feet west of small saddle. A 1- by 1-inch angle iron stamped "TVA LR 463 1939".

Reference Mark 1: 4.28 feet N 60° W to 12-inch oak.
Reference Mark 2: 9.96 feet N 20° E to 6-inch chestnut.
Reference Mark 3: 12.43 feet East to 3-inch oak.
GRID POSITION (N.C.): X = 734,406.7; Y = 662,499.5 (T-4)
ELEVATION: 3046 feet (T-5)

LR 468 (TVA, 1939; Jackson County, North Carolina)

Located 3 miles (airline) southeast from Cherokee. To reach from Cherokee, drive south on State Highway 107, 25 miles to road forks, turn left on gravel road and continue 1.2 miles to Qualla Church. Station is on highest part of ridge in front and west of church, about 15 feet east of lone 3-inch pine tree. A 1- by 1-inch angle iron stamped "TVA LR 468 1939".

Reference Mark 1: 9.87 feet S 20° W to tack in 24-inch stump.
Reference Mark 2: 17.16 feet West to tack in 20-inch stump.
Reference Mark 3: 25.03 feet N 30° W to triangular blaze in 8-inch sourwood.

GRID POSITION (N.C.): X = 719,983.9; Y = 641,514.0 (T-4)
ELEVATION: 2284 feet (T-5)

LRR 1 (TVA, 1939; Swain County, North Carolina)

Located 4 miles (airline) south of Bryson City, 300 feet southwest of Pigeon Gap on top of small grassy knob 3.0 feet west from fence on top of ridge. To reach from Bryson City, drive southwest on U. S. Highway 10, 3.5 miles to Alarka road, turn left, go 1.7 miles to Y-intersection, turn left, go 0.9 miles, turn right, go 0.25 miles to home of Grover Simonds (end of truck travel). Take trail southeast about 0.5 miles to Pigeon Gap. Station is 300 feet west of gap. A 1- by 1-inch angle iron.

Reference Mark 1: 2.57 feet to nail in twin 10-inch oak.

Reference Mark 2: 2.96 feet to nail in 8-inch oak.

GRID POSITION (N.C.): X = 674,293.2; Y = 618,202.4 (T-4)

ELEVATION: 3078 (T-5)

LRR 3 (TVA 1939; Macon County, North Carolina)

Located 6 miles (airline) north of Franklin. To reach from Weats Mill Post Office, drive south on State Highway 28, 1.7 miles, turn left on side road up hollow for 1.25 miles, turn left, crossing branch, 0.2 miles to home of Lee Mason. Station is under apple tree in front yard of Mason house. A 1- by 1-inch angle iron projecting 0.4 feet above ground.

Reference Mark 1: 2.3 feet N 35° E to 12-inch apple tree.

Reference Mark 2: 59.5 feet to northwest corner porch.

Reference Mark 3: 78.5 feet to southwest corner porch.

GRID POSITION (N.C.): X = 693,898.8; Y = 575,544.1 (T-4)

ELEVATION: 2340 feet (T-5)

LRR 4 (TVA, 1939; Macon County, North Carolina)

Located 9 miles (airline) northwest of Franklin. To reach from intersection of State Highway 28 and county road at Etna, drive north 200 feet to intersection turn left and drive 0.3 miles to T-road north at Oak Grove, turn right, traveling north 1.7 miles, turn right 0.2 miles to end of road, take trail up Polecat Branch about 0.2 miles. Turn right and follow old trail through fields to ridge line, walk north up ridge 0.2 miles to old field at property corner of Alfred Clark, Ed McCoy and N. F. Gibson, continue up ridge 495 feet N 50° E to station, 27.0 feet east of path and 45.0 feet east of fence. A 1- by 1-inch angle iron.

Reference Mark 1: 13.72 feet S 52° E to 5-inch oak.

Reference Mark 2: 10.95 feet S 80° W to 8-inch hickory.

Reference Mark 3: 20.0 feet S 55° W to 24-inch oak.

GRID POSITION (N.C.): X = 678,643.9; Y = 595,305.2 (T-4)

ELEVATION: 3296 feet (T-5)

LRR 5 (TVA, 1939; Swain County, North Carolina)

Located 6 miles (airline) southeast of Bryson City. To reach from Alarka Post Office, drive east on main road up Alarka Creek 2.9 miles, turn left at mouth of Uha Creek, drive up Uha Creek 1.9 miles to home of Willie Barker. Leave car and walk up main creek 0.1 mile to home of Jule Barker, continue on up creek 0.2 miles to northeast end of field, turn left up main creek for 0.5 miles to gap, turn left along ridge for 300 feet. Station is on first high point which is intersection of three ridges. A 1- by 1-inch angle iron.

Reference Mark 1: 4.85 feet N 74° W to 7-inch oak.

Reference Mark 2: 6.2 feet N 37° E to 6-inch oak.

Reference Mark 3: 29.3 feet S 78° E to 8-inch oak.

GRID POSITION (N.C.): X = 695,702.6; Y = 616,231.4 (T-4)

ELEVATION: 4464 feet (T-5)

LRR 63 (USED, 1928; Swain County, North Carolina)

Located on right bank of Little Tennessee River, 2 miles below Loet Bridge over river, just above old ford and on lower side of trail, 40 feet from water's edge. A copper nail and washer in 36-inch white oak tree painted white.

ELEVATION: 1855.4 feet (E-4)

LRR 64 (USED, 1928; Macon County, North Carolina)

Located on left bank of Little Tennessee River, 1 mile downstream from Loet Bridge on upper side of old road, and 150 feet southwest of mouth of Tellito Creek. A chiseled circle on rock.

ELEVATION: 1887.1 feet (E-4)

LRR 65 (USED, 1928; Macon County, North Carolina)

Located on Little Tennessee River, on downstream side of east abutment of Loet Bridge over Little Tennessee River, 3000 feet upstream from mouth of Burnington Creek. A chiseled cross.

ELEVATION: 1900.3 feet (E-4)

LRR 66 (USED, 1928; Macon County, North Carolina)

Located on right bank of Little Tennessee River, in 18-inch walnut tree, at upper end of cultivated bottom, 0.6 miles upstream from Loet Bridge. A copper nail and washer, painted white.

ELEVATION: 1899.1 feet (E-4)

LRR 67 (USED, 1928; Macon County, North Carolina)

Located on right bank of Little Tennessee River, on south end of west abutment of concrete culvert on highway, 500 feet west of Oak Grove Cemetery, 2 miles upstream from Loet Bridge. A chiseled square, painted white.

ELEVATION: 1933.1 feet (E-4)

LRR 68 (USED, 1928; Macon County, North Carolina)

Located on right bank of Little Tennessee River, in an 8-inch sycamore tree, approximately 2.9 miles upstream from Loet Bridge at mouth of Bradley Creek, 10 feet from water's edge, and on upper side of ford. A copper nail and washer, painted white.

ELEVATION: 1927.8 feet (E-4)

LRR 69 (USED, 1928; Macon County, North Carolina)

Located on right bank of Little Tennessee River, in 60-inch double sycamore tree, approximately 1.0 mile downstream from Cowee Creek, on lower side of cultivated bottom at water's edge and 600 feet from State Highway 28. A copper nail and washer, painted white.

ELEVATION: 1940.9 feet (E-4)

LRR 70 (USED, 1928; Macon County, North Carolina)

Located on right bank of Little Tennessee River, on large rock 700 feet downstream from mouth of Cowee Creek, 150 feet from water's edge and in a small woodland. A chiseled cross, painted white.

ELEVATION: 1952.5 feet (E-4)

M 37 (USC&GS, 1932; Swain County, North Carolina)

Located at Elna, 150 feet east of the southeast corner of the Southern Railway station, 12 feet north of the north rail, and in the concrete pedestal of a water tank. A standard disk stamped "1794.898 M 37 1932."

ELEVATION: 1,794.760 feet or 547.044 meters (C-1)

M 47 (USC&GS, 1932; Jackson County, North Carolina)

Located 4.4 miles south along U. S. Highway 23 from Dillboro, at Green's Creek, about 70 feet north of the post office, in the east curb of the bridge over Greens Creek, 1 foot from the south end of the bridge, and directly below the bronze name tablet. A standard disk, stamped "2120.199 M 47 1932."

NOTE: It was reported in November, 1934 that a landslide had probably moved or destroyed this bench mark.

ELEVATION: 2,120.081 feet or 646.202 meters (C-1)

MOUNT NOBLE (USGS, 1928; Swain County, North Carolina)

Located 1-1/2 miles (airline) northwest of Cherokee Indian School, on summit of Mount Noble, near the head of Adams Creek. To reach from Cherokee, go west 2 miles on State Highway 28, turn up Adams Creek 1/4 mile to road fork. Turn right, follow new road about 2-1/2 miles, leave car, continue in same direction up dug path about 1-1/2 miles. First main top is Mount Noble. Station mark is a tree with flag and with triangles cut on four faces of the tree.

NOTE: Road will continue to top in near future.

GEODETIC POSITION: Lat. = 35°29'46.276"; Long. = 83°20'03.742" (G-3)

To Station	Azimuth	Back Azimuth	Log Meters	Miles
Newton Bald	157°12'57.2"	337°12'05.9"	3.765903	3.6
Cataloochee	237°51'26.7"	57°57'07.2"	4.281108	10.8
Bunches Bald	260°26'26.9"	80°31'29.2"	4.123798	8.3

GRID POSITION (N.C.): X = 710,267.3; Y = 663,658.4 (G-3)

ELEVATION (hub under tree): 3833 feet (T-5)

N 11 (USGS, 1928; Swain County, North Carolina)

Located 65 feet N 35° W from entrance to Lands Creek School, 2.5 miles northeast of the mouth of Lands Creek, 65 feet north of road fork, 20 feet east of road, in top of embedded boulder. A bronze tablet stamped "N 11 1928", painted "USPBM 2100".

Reference mark is 60 feet S 20° E of tablet, on rock, a chiseled square 1.20 feet lower than the tablet.

ELEVATION: 2099.72 feet (G-3)

N 12 (USGS, 1928; Swain County, North Carolina)

Located 4.9 miles northeast of mouth of Lands Creek, 4 miles (airline) northwest of Bryson City, 220 feet east of forks of creek at head, 65 feet southeast of forks of woods road, 10 feet northeast of road and in top of rock outcrop. A bronze tablet stamped "N 12 1928", painted "USPBM 3139.4".

Reference mark is 25 feet S 60° W of tablet, on boulder, a chiseled square 7.18 feet lower than the tablet.

ELEVATION: 3138.86 feet (G-3)

N 13 (USGS, 1928; Swain County, North Carolina)

Located 0.5 miles north of Cooper Creek School, 2.7 miles northeast along road up Cooper Creek from State Highway 28, 65 feet southwest of residence of C. H. Fish, 10 feet northwest of road, 10 feet southwest of drain, and in top of a boulder. A bronze tablet stamped "N 13 1928", painted "USPBM 2292.3".

Reference mark is 20 feet S 45° W of tablet, on boulder; a chiseled square, 1.19 feet higher than tablet.

ELEVATION: 2292.26 feet (G-3)

N 26 (USGS, 1928; Swain County, North Carolina)

Located 3 miles northeast of mouth of Indian Creek, 60 feet east of Robert Wiggins' residence, 15 feet southwest of spring house, 40 feet west of road, 5 feet south of trail, in top of rock outcrop. A bronze tablet stamped "N 26 1928", painted "USPBM 2379.2".

ELEVATION: 2378.93 feet (G-3)

N 37 (USC&GS, 1932; Swain County, North Carolina)

Located at Whittier, on the Southern Railway about 70 feet south of the south rail of the main track, at the main entrance to the Methodist Church, and in the northwest end of the second step from the ground. A standard disk, "1839.484 N 37 1932".

ELEVATION: 1,839.353 feet or 560.636 meters (C-1)

N 427 (TVA, 1938; Macon County, North Carolina)

Located 0.4 miles above foot bridge over Little Tennessee River at Cowee, 300 feet east of two-story farm house, 2000 feet below sharp bend in river, in east root of 30-inch cedar tree, 100 feet from left bank. A nail and washer.

ELEVATION: 1951.57 feet (T-3)

N 428 (TVA, 1938; Macon County, North Carolina)

Located on right bank 75 feet from Little Tennessee River at point where State Highway 28 leaves river going west, 35 feet downstream from box culvert and Potts Branch, 20 feet south of center line of highway. Character of station not described.

ELEVATION: 1952.78 feet (T-3)

N 429 (TVA, 1938; Macon County, North Carolina)

Located 0.7 miles east of point where Bradley Creek crosses State Highway 28, 2 feet northeast of winding road sign, on west headwall of concrete culvert under State Highway 28. A chiseled square.

ELEVATION: 2003.32 feet (T-3)

N 430 (TVA, 1938; Macon County, North Carolina)

Located 1.2 miles along State Highway 28 southeast of Etna, 18 feet west of curve sign on south side of road, on south headwall of concrete culvert under highway. A chiseled square.

ELEVATION: 2001.16 feet (T-3)

- N 431** (TVA, 1938; Macon County, North Carolina)
Located 0.5 miles southeast along State Highway from Etna Post Office, 150 feet east of point where second class road turns off to McCoy Ford, on north headwall of concrete culvert under highway. A chiseled square.
ELEVATION: 1938.54 feet (T-3)
- N 432** (TVA, 1938; Macon County, North Carolina)
Located on right side of Little Tennessee River, 400 feet below Etna Post Office, on State Highway 28, on downstream wingwall of concrete culvert over Lahey Creek. A chiseled square.
ELEVATION: 1937.82 feet (T-3)
- N 433** (TVA, 1938; Macon County, North Carolina)
Located near Etna, in east root of 12-inch sycamore tree, on Highway 28, on right side of Little Tennessee River, 75 feet from bank on left bank of Caler Cove Branch, 500 feet south of the highway. A nail and washer.
ELEVATION: 1925.66 feet (T-3)
- N 434** (TVA, 1938; Macon County, North Carolina)
Located 1 mile downstream from Etna, 600 feet downstream from Durrell McCoy's house, about 75 feet from lower end of field, on top of rock outcrop, 0.5 feet above the ground in middle of wagon road along left bank of Little Tennessee River, at base of steep hill side, 8 feet from normal water edge. A chiseled square.
ELEVATION: 1920.05 feet (T-3)
- N 435** (TVA, 1938; Macon County, North Carolina)
Located 1-1/2 miles downstream from Etna, 5 feet east of the center line of wagon trail along bank of Little Tennessee River, just below an elbow turn in river opposite large boulder which stands about 4 feet above water at normal river stage. Boulder is about 30 feet from left water edge. Station is in landside trunk of 10-inch maple tree on left bank 2 feet from water's edge. A nail and washer.
ELEVATION: 1912.74 feet (T-3)
- N 436** (TVA, 1938; Macon County, North Carolina)
Located on left bank of Little Tennessee River, 2 miles upstream from Lost Bridge, on top of rock boulder 3-by 3- by 3-feet, about 200 feet from left bank, on property of Mr. Kato Duvall, 150 feet downstream from log barn, 50 feet riverward from road down to Lost Bridge. A chiseled square.
ELEVATION: 1909.76 feet (T-3)
- N 437** (TVA, 1938; Macon County, North Carolina)
Located on left bank of Little Tennessee River, 0.8 miles above Lost Bridge, on property of T. J. Carnes, in base of 12-inch maple tree, 20 feet from back steps of T. J. Carnes house. A nail and washer.
ELEVATION: 1903.37 feet (T-3)
- N 438** (TVA, 1938; Macon County, North Carolina)
Located on right bank of Little Tennessee River, 600 feet downstream from Silas Dean's Store by road, 55 feet downstream from 24-inch culvert pipe under State Highway 28, and 24 feet riverward from fence at top of highway fill, on top of small rock. An arrow on this rock points to flood mark FHR 81. Rock is in clear field even with lower end of Dean Island. A chiseled square.
ELEVATION: 1904.60 feet (T-3)
- N 439** (TVA, 1938; Macon County, North Carolina)
Located on right bank of Little Tennessee River, 0.5 miles below Lost Bridge, directly opposite mouth of Burnington Creek on left bank, in base of 36-inch leaning sycamore tree on land side of tree (tree overhangs right bank). First large sycamore below point where river turns away from road. A nail and washer.
ELEVATION: 1884.48 feet (T-3)
- N 440** (TVA, 1938; Macon County, North Carolina)
Located on right bank of Little Tennessee River, 1.2 miles downstream from Lost Bridge, in landside of a 15-inch maple tree, 8 feet from water's edge, 20 feet below lower end of narrow field along river, 500 feet downstream from two-story yellow house that sets on side of hill about 400 feet from river bank. A nail and washer.
ELEVATION: 1874.21 feet (T-3)
- N 441** (TVA, 1938; Macon County, North Carolina)
Located on right bank of Little Tennessee River, 250 feet from water's edge, 100 feet below Simon Branch, and 12 feet riverward from center line of road to Shallow Ford, in river side of an 18-inch oak tree. A nail and washer.
ELEVATION: 1877.92 feet (T-3)
- N 469** (TVA, 1938; Swain County, North Carolina)
Located on left bank of Tuckaseegee River, 1 mile downstream from Bryson City, 200 feet from left bank, 110 feet downriver from overshoot water wheel, on south headwall of concrete culvert on U.S. Highway 19 over Jenkins Branch. A chiseled square.
ELEVATION: 1727.15 feet (T-3)
- N 470** (TVA, 1938; Swain County, North Carolina)
Located 1.4 miles above Bryson City on left side of Tuckaseegee River, on U.S. Highway 19, on top of east retaining wall of steps from driveway to front yard of H. A. Hyatt's home. A chiseled square.
ELEVATION: 1750.66 feet (T-3)
- N 471** (TVA, 1938; Swain County, North Carolina)
Located 0.4 miles above U.S. Highway 19 bridge over Tuckaseegee River in front of second house above bridge, 2.5 miles above Bryson City, on top of large boulder on left bank of river. A chiseled square.
ELEVATION: 1771.80 feet (T-3)
- N 472** (TVA, 1938; Swain County, North Carolina)
Located on left bank of Tuckaseegee River, 3 miles upstream from Bryson City, 1.0 miles above U.S. Highway 19 bridge, 300 feet above lower end of field, on top of rock outcrop, 20 feet from river on hillside, 20 feet west of road and 20 feet south of 30-inch chestnut tree. A chiseled square.
ELEVATION: 1778.35 feet (T-3)
- N 473** (TVA, 1938; Swain County, North Carolina)
Located 1-1/2 miles above U.S. Highway 19 bridge, 100 feet from left bank of Tuckaseegee River, opposite Governors Island, in the northwest corner of H. A. Hyatt's barnyard. A nail and washer in root of 24-inch walnut tree.
ELEVATION: 1771.95 feet (T-3)
- N 474** (TVA, 1938; Swain County, North Carolina)
Located on left bank of Tuckaseegee River, about 0.8 miles below Ela, 0.2 miles downstream from Southern Railway bridge over river, in land side of 30-inch oak tree, on river edge of road along river bank. A nail and washer.
ELEVATION: 1778.03 feet (T-3)
- N 475** (TVA, 1938; Jackson County, North Carolina)
Located 1.0 mile above Whittier, on right side of Tuckaseegee River, on northeast corner of north headwall of a concrete culvert on U. S. Highway 19. A chiseled square.
ELEVATION: 1846.83 feet (T-3)
- N 476** (TVA, 1938; Jackson County, North Carolina)
Located 500 feet southwest of State Prison Camp, on top of large boulder on right side of Tuckaseegee River, 75 feet riverward from U. S. Highway 19. A chiseled square.
ELEVATION: 1845.68 feet (T-3)
- N 477** (TVA, 1938; Jackson County, North Carolina)
Located 1.0 mile northwest of Wilmot, 300 feet below railway sign board (Station 1 Mile) 150 feet above grade crossing, on rock outcrop along Southern Railway. A chiseled square.
ELEVATION: 1864.97 feet (T-3)
- N 478** (TVA, 1938; Jackson County, North Carolina)
Located on left bank of Little Tennessee River, 150 feet upriver from Mile Post 54, about 0.5 miles below Wilmot, on top of large flint rock, 20 feet south of south rail, 4 feet south of a foot path, 100 feet below foot of small island. A chiseled square.
ELEVATION: 1869.76 feet (T-3)
- N 479** (TVA, 1938; Jackson County, North Carolina)
Located on right side of Tuckaseegee River, about 0.3 miles upstream from entrance of Kress Estate, on U.S. Highway 19, on southeast corner of east headwall of concrete culvert. A chiseled square.
ELEVATION: 1882.92 feet (T-3)
- N 480** (TVA, 1938; Jackson County, North Carolina)
Located on left bank of Tuckaseegee River, 0.6 mile above Barkers Creek, on top of large rock ledge, 15 feet south of south rail of Southern Railway, 15 feet west of grade crossing sign, across tracks from Telegraph Pole No. 1972. A chiseled square.
ELEVATION: 1923.56 feet (T-3)
- N 481** (TVA, 1938; Jackson County, North Carolina)
Located 1.0 mile above Barkers Creek, on right bank of Tuckaseegee River, on rock ledge on north side of U.S. Highway 19, 12 feet from center line, 3 feet above road level, across river and 600 feet upstream from Harley Nation's home. A chiseled square.
ELEVATION: 1911.93 feet (T-3)
- N 482** (TVA, 1938; Jackson County, North Carolina)
Located 1.9 miles above Barkers Creek, on right bank of Tuckaseegee River, 1000 feet below Dicks Creek, on U.S. Highway 19, on northeast corner of north headwall of concrete culvert under highway. A chiseled square.
ELEVATION: 1925.97 feet (T-3)
- N 483** (TVA, 1938; Jackson County, North Carolina)
Located on right side of Tuckaseegee River, 0.5 miles below Southern Railway bridge over river, 1.8 miles below Dillsboro, in north corner of northeast headwall of concrete culvert over Hazel Branch. A chiseled square.
ELEVATION: 1948.22 feet (T-3)
- N 484** (TVA, 1938; Jackson County, North Carolina)
Located 1.0 mile below Dillsboro, along Southern Railway, 35 feet east of railway marker (Station 1.0 Mile), on right bank of Tuckaseegee River, on top of rock ledge, 10 feet north of Railway tracks, 100 feet from bank, about 1000 feet below lower end of side track at Dillsboro. A chiseled square.
ELEVATION: 1964.89 feet (T-3)
- N 520** (TVA, 1938; Swain County, North Carolina)
Located 300 feet east of McHan Branch, 50 feet north of State Highway 28 and 20 feet northwest of power pole with transformer on top of it, 100 feet west of point where highway crests and slopes down to Occmuluftee River. A nail and washer in north side of 8-inch locust tree.
ELEVATION: 1921.46 feet (T-3)
- N 521** (TVA, 1938; Swain County, North Carolina)
Located 1.7 miles southwest along State Highway 28 from Birdtown School, in front of Charles Rogers' home, on top of rock ledge on north side of highway, 15 feet from center line of highway. A chiseled square.
ELEVATION: 1870.32 feet (T-3)
- N 522** (TVA, 1938; Swain County, North Carolina)
Located 0.2 miles southwest along county road from Rock Hill Church, 325 feet from left bank of Occmuluftee River, 275 feet riverward from Adam Owls' home. A nail and washer in base of apple tree.
ELEVATION: 1846.74 feet (T-3)
- N 523** (TVA, 1938; Swain-Jackson Counties, North Carolina)
Located 0.8 miles southwest along State Highway 28 from Birdtown School, on left bank of the Occmuluftee River, on downstream end of left bank abutment of wooden bridge over river. A chiseled square.
ELEVATION: 1854.33 feet (T-3)
- N 524** (TVA, 1938; Swain County, North Carolina)
Located at Birdtown on west side of State Highway 28, 250 feet southeast

of Birdtown School, on concrete headwall of highway culvert. A chiseled square.
ELEVATION: 1870.93 feet (T-3)

N 525 (TVA, 1938; Swain County, North Carolina)

Located 1.5 miles west along State Highway 28 from Cherokee, on concrete headwall of culvert under highway, 18 feet north of center line of road about 400 feet below first foot bridge below Cherokee. A chiseled square.
ELEVATION: 1890.63 feet (T-3)

N 526 (TVA, 1938; Swain County, North Carolina)

Located 0.7 mile downstream along State Highway 28 from post office at Cherokee, opposite point where Oconaluftee River comes back to highway, on north headwall of concrete culvert, 15 feet north of center line of highway, about 220 feet west of intersection of gravel road up Owl Branch and highway. Character of mark not described.
ELEVATION: 1942.50 feet (T-3)

N 527 (TVA, 1938; Swain County, North Carolina)

Located 0.7 miles below highway bridge at Cherokee, and about 0.5 miles above Soco Creek on right side of Oconaluftee River and riverward edge of road, 1.5 feet above ground. Railway spike in land side of power pole.
ELEVATION: 1917.25 feet (T-3)

N 528 (TVA, 1938; Swain County, North Carolina)

Located 90 feet north of highway junction, 27 feet west of center line of State Highway, about 200 feet northwest of northwest end of State Highway 107 bridge over Oconaluftee River at Cherokee, on bottom concrete step leading to side entrance to Cherokee Crafts Shop. A chiseled square.
ELEVATION: 1947.75 feet (T-3)

N 529 (TVA, 1938; Swain County, North Carolina)

Located on right bank of Oconaluftee River, 1.2 miles northeast along State Highway 28 from Cherokee School, at foot of highway fill, 50 feet from water's edge, 600 feet downriver, from Cherokee Tavern, on east headwall of pipe culvert opposite head of island. A chiseled square.
ELEVATION: 1968.96 feet (T-3)

N 530 (TVA, 1938; Swain County, North Carolina)

Located 0.9 miles above mouth of Lambert Branch, 0.4 mile below foot bridge over Oconaluftee River, about midway along tangent of State Highway 107, on northwest corner of drainage grate, on north side of highway. A chiseled square.
ELEVATION: 1981.04 feet (T-3)

P 37 (USC&GS, 1932; Swain County, North Carolina)

Located at Whittier, on the Southern Railway, 45 feet north of the north rail, in the north face of the Roane and Varner brick building, and 5 feet higher than the sidewalk. A standard disk stamped "1845.128 P 37 1932" and set vertically.
ELEVATION: 1,844.993 feet or 562.355 meters (C-1)

P 69 (TVA, 1939; Swain County, North Carolina)

Located 0.9 miles along road northeast from Weesser Gap, on right bank of small creek, on outside of sharp curve, 14.0 feet north of center line of road, at water's edge of creek. A chiseled circle on large boulder, painted "TVA TRM P 69".
ELEVATION: 3742.237 feet or 1140.636 meters (T-2)

PEAK (USGS, 1934; Swain-Macon Counties, North Carolina)

Located 9-1/2 miles (airline) north of Franklin, about 8 miles (airline) south of Bryson City on summit of Peaks Bald. To reach from Bryson City Courthouse drive west on U.S. 19 for 3.5 miles, thence turn left on Alarka road for 1.7 miles, thence turn right and follow main road 2.6 miles to road forks, turn left and go about 0.1 mile, turn right and go 0.3 miles to road forks, turn left and follow 0.8 miles to road forks, turn right and go 1.3 miles to home of Jack Jones. Leave car and follow trail up drain about 1/4 mile to home of George Beasley, continue on same trail up drain about 1 mile to Cold Spring Gap, thence turn and follow trail in east direction about 1/4 mile to first high top. Lanes were cleared to all stations. Station is on highest point of top. Station mark is a standard tablet stamped "PEAK 1934" set in top of sandstone boulder, flush with ground.

Reference Mark 1: 16.8 feet N 79°28' E to drill hole.

Reference Mark 2: 19.4 feet S 39°02' E to drill hole.

Reference Mark 3: 13.6 feet S 20°59' W to drill hole.

GEODETIC POSITION: Lat. = 35°19'09.339"; Long. = 83°24'57.929" (G-3)

To Station	Geodetic Azimuth		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Tremont	3°37'35.3"	183°37'14.7"	4.156262	8.9
Cowee 2	263°51'21.9"	83°54'10.4"	3.869491	4.6
Watauga	303°45'45.1"	123°49'12.7"	4.038443	6.8

GRID POSITION (N.C.): X = 683,103.5; Y = 600,401.6 (G-3)

ELEVATION: 4582 feet (T-5)

Q 37 (USC&GS, 1932; Jackson County, North Carolina)

Located 1.8 miles northwest along the Southern Railway from the station at Wilnot, 0.4 miles northwest of milepost 55, in the south headwall of a masonry culvert, 9 feet south of the south rail, and about 3 feet lower than the base of rail. A standard disk, stamped "1849.192 Q 37 1932".
ELEVATION: 1,849.061 feet or 563.595 meters (C-1)

R 7 (USGS, 1928; Swain County, North Carolina)

Located 2.4 miles northeast along U.S. Highway 19 from Ela, and 2.4 miles southwest of Cherokee, 250 feet east of old railroad crossing, 25 feet north of track, and on 10 foot ledge projecting into Oconaluftee River. A bronze tablet stamped "R 7 1928".

Reference Mark is 20 feet south of tablet, on top of boulder, a drill hole 6.24 feet higher than the tablet.

ELEVATION: 1864.97 feet (G-3)

R 8 (USGS, 1928; Swain County, North Carolina)

Located 1 mile northwest of road fork at Ela, 4.5 miles northeast of Bryson City, 50 feet north of highway at a farm road northeast. A standard tablet stamped "R 8 1928" and set in ledge.

Reference Mark is 80 feet southwest of tablet, on north wall of concrete culvert, a square cut 3.33 feet lower than the tablet.
ELEVATION: 1796.59 feet (G-3)

R 9 (USGS, 1928; Swain County, North Carolina)

Located at Bryson, at the courthouse, in the concrete floor of the front porch, 0.5 foot north of the front door, and adjacent to the brick door facing. A standard disk stamped "1735.915 R 9 1928".

GRID POSITION (N.C.): X = 676,253.1; Y = 640,242.4 (T-4)

ELEVATION: 1735.774 feet or 529.065 meters (C-1)

R 10 (USGS, 1928; Swain County, North Carolina)

Located 3.0 miles west along the Southern Railway from Bryson, 580 feet east of milepost 67, 45 feet north of the center line of the track, 15 feet north of the north headwall of a concrete culvert on State Highway 288, and 4 feet higher than the highway, in a rock ledge. A standard disk stamped "1694.150 R 10 1928".

Reference Mark is 30 feet south of tablet, on south coping to culvert, a square cut 1.54 feet lower than the tablet.

NOTE: Submerged at times by Fontana Reservoir.

ELEVATION: 1,694.006 feet or 516.334 meters (C-1)

R 37 (USC&GS, 1932; Jackson County, North Carolina)

Located at Wilnot, about 50 feet east of the Southern Railway station, 15 feet south of the station sign, 4 feet south of the south rail, and about 1/2 foot higher than the track, in the top of a small rock ledge. A standard disk stamped "1866.020 R 37 1932".
ELEVATION: 1,865.889 feet or 568.724 meters (C-1)

RATTLESLAKE CLIFF (USC&GS, 1933; Swain County, North Carolina)

Located on high peak known as "Hickorynut Knob", about 3 miles (airline) and 7 miles by road southeast of Bryson City. To reach from courthouse at Bryson City, go east 1.6 miles on routes 10 and 23 to sign "Kirkland Creek Road", turn right, follow rough dirt road 0.25 mile to fork, take right fork, continue 0.75 mile, take left fork, continue 1.3 miles to home of Mr. Kirkland, and continue 0.25 mile to end of truck travel. Follow wagon road from point to left of home of R. C. Smith to fork with sign "Indian Land" tacked to tree, continue to open field, and continue through field to top from which point station site is visible. Bear left and follow blazed trail to station site. Total climb is about 2-1/2 miles. Station is in middle of flat heavily timbered summit, 35 feet east of 30-inch white oak tree with triangular blaze, 17 feet west of scarred twin 12-inch water oak trees, and 13 feet north of 15-inch water oak tree. Surface mark is a standard bronze tablet wedged in a drill hole in a boulder. Underground mark is a block of concrete 3 feet below the ground containing at the center of its upper surface a standard bronze tablet.

Reference marks are standard bronze tablets, with the arrows pointing toward the station, each wedged in a drill hole in a boulder.

Reference Mark 1 is on west edge of summit, 4 feet northeast of triangle-blazed 30-inch water oak tree, and 9.868 meters (32.38 feet) from station in geodetic azimuth 137°26'.

Reference Mark 2 is 8 feet west of 12-inch white oak stump, 11 feet west of 12-inch water oak tree, and 7.629 meters (25.03 feet) from station in geodetic azimuth 221°57'.

GEODETIC POSITION: Lat. = 35°23'05.816"; Long. = 83°24'17.382" (C-1)

To Station	Geodetic Azimuth		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Waterrock				
Black Mountain	250°02'17.51"	70°11'34.76"	4.4114555	16.0
	261°30'51.25"	101°47'25.61"	4.6465777	27.5

Azimuth from station to fire tower on Wayah Bald is 32°02'16".
GRID POSITION (N.C.): X = 687,520.38; Y = 624,135.60 (C-1)

RATTLESLAKE MOUNTAIN (USGS, 1934; Jackson-Swain Counties, North Carolina)

Located 11 miles (airline) northwest of Sylva, on top of Rattlesnake Mountain. To reach from Cherokee, cross river on highway bridge. Turn left along river to first hollow, turn right, continue up hollow as far as car will go (about 0.6 mile). Follow main dug trail to ridge in gap (about 1-1/2 miles), turn left up ridge about 0.5 mile to top. NOTE: Main trail turns right before it reaches top. Follow dim trail north along crest of ridge to station. A standard tablet stamped "RATTLESLAKE MOUNTAIN" on crest of wooded top.

Reference Mark 1: 5.2 feet S 53° E to drill hole (County Line Marker).

Reference Mark 2: 11.5 feet S 10° W to drill hole in boulder.

Reference Mark 3: 8.4 feet S 67° W to drill hole in boulder.

REPORT ON CONDITION: (TVA, 1939) Tablet was reported removed from rock. Rock had been disturbed, but replaced.

GEODETIC POSITION: Lat. = 35°29'33.116"; Long. = 83°17'11.643" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log Meters	Miles
Dillsboro	0°28'20.8"	180°28'17.9"	4.188951	9.6
Waterrock	283°08'37.7"	103°13'48.6"	4.142056	8.6

GRID POSITION (N.C.): X = 724,425.8; Y = 661,711.5 (G-3)

ELEVATION: 3792 feet (T-5)

RPH 1 (TVA, 1945; Swain County, North Carolina)

Located 1.5 miles southwest of Bryson City, following U.S. Highway 19, on Buckner Branch-Cochran Branch road, on top of inlet headwall of 10 by 8-foot box culvert at survey station 50493, project 19-3514. A standard tablet stamped "RPH 1 1945" and set in culvert headwall.
ELEVATION: 1831.7 feet (T-4)

RPH 2 (TVA, 1945; Swain County, North Carolina)

Located 0.9 miles west of U. S. Highway 19 on Buckner Branch-Cochran Branch road, on top of inlet headwall of double 8-by 6-foot box culvert at survey station 50404, project 19-3514. A standard tablet stamped "RPH 2 1945" and set in culvert headwall.
ELEVATION: 1785.7 feet (T-4)

RPH 3 (TVA, 1945; Swain County, North Carolina)

Located 350 feet north of Southern Railway on Laurel Branch-Buckner Branch road, on top of outlet headwall of 4- by 6-foot box culvert at survey station 121435, project 19-3501. A standard tablet stamped "RPH 3 1945" and set in culvert headwall.

ELEVATION: 1821.9 feet (T-4)

RPH 4 (TVA, 1945; Swain County, North Carolina)

Located 1.3 miles northwest of Southern Railway on Laurel Branch-Buckner Branch road, on top of inlet headwall of 60-inch pipe culvert at survey station 33475, project 19-3501. A standard tablet stamped "RPH 4 1945" and set in culvert headwall.

ELEVATION: 1716.8 feet (T-4)

RPH 5 (TVA, 1945; Swain County, North Carolina)

Located 1.9 miles northwest of Southern Railway on Laurel Branch-Buckner Branch road, on top of inlet headwall of 12- by 8-foot box culvert at survey station 1417, project 19-3501. A standard tablet stamped "RPH 5 1945" and set in culvert headwall.

ELEVATION: 1721.8 feet (T-4)

RY 17 (Sou. Ry. 7 Swain County, North Carolina)

Located 0.4 mile east along the Southern Railway from Bryson, at bridge T 63.6 over Deep Creek, in the south end of the west abutment, 5.5 feet south of the south rail, and about 1 foot lower than the track. A standard monel-metal rivet.

ELEVATION: 1,742.759 feet or 531.194 meters (C-1)

RY 19 (Sou. Ry. 7 Jackson County, North Carolina)

Located 1.7 miles southeast along the Southern Railway from Whittier, 825 feet east of milepost 56, at a 48-inch concrete pipe culvert, in the top of the south concrete headwall, 2 feet east of the west end, and 6 feet south of the south rail. A monel-metal rivet.

ELEVATION: 1,849.491 feet or 563.726 meters (C-1)

RY 20 (Sou. Ry. 7 Jackson County, North Carolina)

Located 1.4 miles west along the Southern Railway from the station at Dillsboro, 700 feet west of milepost 49, at a bridge over Tuckasee River, in the south end of the west abutment, and 3.5 feet south of the south rail. A standard monel-metal rivet.

ELEVATION: 1,975.026 feet or 601.989 meters (C-1)

S 37 (USC&GS, 1932; Jackson County, North Carolina)

Located about 3.7 miles northwest along the Southern Railway from the station at Dillsboro, about 0.7 miles northwest of the station at Barkers Creek, about 0.5 miles northwest of milepost 51, on a 600-foot north and south tangent, about 105 yards north of a 27 by 36-inch elliptical concrete pipe culvert at a rock cut, in the top of a small shelving projecting, 6 feet west of the west rail, and about 1-1/2 feet higher than the track. A standard tablet, stamped "1901.194 S 37 1932."

ELEVATION: 1,901.066 feet or 579.446 meters (C-1)

SHARP TOP (USGS, 1929; Swain County, North Carolina)

Located on a sharp top locally known as "Sharp Top" and is on the divide between Deep Creek and Land Creek, about 3 miles northwest of Bryson City. Station mark is triangles cut in tree.

GEODETIC POSITION: Lat. = 35°28'03.877"; Long. = 83°27'27.417" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log Meters	Miles
Cheoah	52°11'18.9"	232°03'133.1"	4.410041	16.0
High Rocks	103 27 27.6	283 21 45.7	4.183665	9.5
Newton Bald	226 33 25.6	46 36 51.9	4.090604	7.7
Bunches Bald	257 29 45.2	77 39 04.9	4.359894	15.5

GRID POSITION (N.C.): X = 673,154.8; Y = 694,940.4 (G-3)
ELEVATION (hub under tree): 3402 feet (T-5)

SWAIN (TVA, 1939; Swain County, North Carolina)

Located in Bryson City on Everett Street concrete bridge over Tuckasee River, nearly in center of upstream side, in north sidewalk, 4 feet southwest of center lamp post and 0.5 feet north of south edge of sidewalk. Station is a 2-inch square bronze tablet stamped "SWAIN".

GEODETIC POSITION: Lat. = 35°25'41.71"; Long. = 83°26'45.26" (T-4)

GRID POSITION (N.C.): X = 675,994.2; Y = 640,425.4 (T-4)

Grid Azimuth to WM-120 (distance 910.9 feet): 153°16'

ELEVATION: 1736 feet (T-5)

T 37 (USC&GS, 1932; Jackson County, North Carolina)

Located 1.6 miles northwest along the Southern Railway from the station at Dillsboro, 600 feet east of milepost 49, at Cowee Tunnel, in the face of the west portal, 4 feet north of the north rail, and about 4 feet higher than the track. A standard disk stamped "1974.47 T 37 1932" and set vertically.

ELEVATION: 1,974.346 feet or 601.782 meters (C-1)

TABOR (USGS, 1934; Swain-Macon Counties, North Carolina)

Located 9 miles (airline) south of Bryson City, and 11 miles (airline) northwest of Franklin, on crest of mountain known as Pinnacle Knob on property of J. M. Tabor. To reach from Franklin courthouse drive west on Main Street and State Highway 28, thence turn right on 28 and follow for 14.7 miles to home of J. M. Tabor. Leave car at house and take trail east 1000 feet to open field. From this point follow trail east thru pasture to a low gap, thence turn right and follow trail along a wire fence along summit of ridge to top of mountain, about 3/4 miles from house. Station is on highest point of top. A standard tablet stamped "TABOR 1934" set in top of a boulder flush with ground.

Reference Mark 1: 8.7 feet N 54° W to drill hole in boulder.

Reference Mark 2: 28.7 feet N 50° E to drill hole in boulder.

Reference Mark 3: 128.9 feet S 24° E to drill hole in rock outcrop.

GEODETIC POSITION: Lat. = 35°18'19.020"; Long. = 83°29'11.521" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log Meters	Miles
Wayah	25°58'59.8"	205°56'25.6"	4.188559	9.6
Peak	256 22 19.3	76 24 45.8	3.818963	4.1
Watauga	286 14 19.5	106 20 13.5	4.207813	10.0
Tremont	336 37 47.1	156 39 52.8	4.142669	8.6

GRID POSITION (N.C.): X = 661,881.7; Y = 596,261.8 (G-3)

TR 6 (USED, 1928; Swain County, North Carolina)

Located on right bank of Tuckasee River, 2-1/2 miles northwest along State Highway 288 from Bryson City, 100 feet downriver from railroad milepost 67, on end of a concrete downriver wing wall of concrete highway bridge over creek, between highway and railroad. A chiseled cross painted red.

ELEVATION: 1691.0 feet (E-4)

TR 7 (USED, 1928; Swain County, North Carolina)

Located on right bank of Tuckasee River, 0.9 mile southwest from railroad station at Bryson City, 350 feet upstream from Sinclair gas tanks, and 20 feet downstream from railroad switch to incline to coal chutes, in rock outcrop on bank 20 feet from center line of railroad and 4 feet above track elevation. A chiseled circle painted red.

ELEVATION: 1734.3 feet (E-4)

TR 8 (USED, 1928; Swain County, North Carolina)

Located at Bryson City, on west end wall of concrete culvert under railroad 200 feet southwest from center line of a main street grade crossing and 45 feet southwest from railroad milepost 64. A chiseled cross painted red.

ELEVATION: 1730.82 feet (E-3)

TR 9 (USGS, 1928; Swain County, North Carolina)

Located 0.9 miles east along the Southern Railway from Bryson City, about 150 feet west of milepost 63, at the base of a large rock cut, 75 feet east of the west end, 3 feet north of the north rail, and about level with the track. A chiseled point.

ELEVATION: 1,748.930 feet or 533.075 meters (C-1)

TR 10 (USED, 1928; Swain County, North Carolina)

Located 2 miles upstream from Bryson City, on first highway bridge over Tuckasee River above Bryson City, on top of right bank abutment to bridge, and 1 foot from end of lower concrete handrail. A chiseled circle painted red and flush with pavement.

ELEVATION: 1764.29 feet (E-3)

TR 11 (USED, 1928; Swain County, North Carolina)

Located on right bank of Tuckasee River, 4-1/2 miles upstream from Bryson City, on first railroad bridge above city, on downstream side of second pier from right bank which is pier to right bank end of main span. A chiseled cross painted red.

ELEVATION: 1786.79 feet (E-3)

TR 12 (USED, 1928; Swain County, North Carolina)

Located 0.75 miles upstream from Ela, and 450 feet upstream from railroad sign "Yard Limit", 0.3 miles upstream from Oconaluftee River mouth, in rock outcrop in old railroad cut inside of bluff in lower end of sharp bend in river, 9 feet from center line of railroad. Point in chiseled circle painted red.

ELEVATION: 1804.01 feet (E-3)

TR 13 (USED, 1928; Swain County, North Carolina)

Located at Whittier, on bolt head on left bank of cylindrical pier on upstream side of steel bridge over Tuckasee River. A bolt head painted red.

ELEVATION: 1842.58 feet (E-3)

TR 14 (USED, 1928; Jackson County, North Carolina)

Located 1.7 miles southeast along the Southern Railway from Whittier, about 825 feet east of milepost 56, at a 48-inch concrete pipe culvert, in the top of the concrete headwall, 5 inches west of the east end, 20 feet south of the south rail, and 2 feet lower than the base of rail. A chiseled cross.

ELEVATION: 1,849.537 feet or 563.740 meters (C-1)

TR 15 (USED, 1928; Jackson County, North Carolina)

Located 1.2 mile downstream from Wilmot, and 1400 feet upstream from railroad milepost 55, in rock outcrop in railroad cut in side of hill, 300 feet upstream from dwelling house near railroad (large walnut trees on river bank in front of dwelling) and 8 feet from center line of railroad. A chiseled circle painted red.

ELEVATION: 1860.39 feet (E-3)

TR 16 (USED, 1928; Jackson County, North Carolina)

Located at Wilmot, in bolt head on top of left bank on cylindrical pier on downstream side of steel bridge over Tuckasee River. A chiseled cross painted red.

ELEVATION: 1866.67 feet (E-3)

TR 17 (USED, 1928; Jackson County, North Carolina)

Located 1.6 miles upstream from Wilmot, and 300 feet upstream from railroad milepost 52, on left bank of Tuckasee River, in rock outcrop on side of hill, 8.5 feet from center line of railroad. A chiseled circle painted red.

ELEVATION: 1890.21 feet (E-3)

TR 19 (USED, 1928; Jackson County, North Carolina)

Located 1.4 mile upstream from Barkers Creek and at upper end of sharp curve in U.S. Highway 19, on right bank of Tuckasee River, opposite down river end of Cowee Tunnel below Dillsboro, in top of stone masonry culvert under highway, and at upper end of culvert. A chiseled cross painted red.

ELEVATION: 1923.47 feet (E-3)

TR 20 (USED, 1928; Jackson County, North Carolina)

Located on right bank of Tuckasee River, 0.6 mile downstream from upriver end of Cowee Tunnel below Dillsboro, along U.S. Highway 19, in rock cut, near top of slope in highway, 15 feet from center line of highway and on upper side of road, 45 feet downstream is a prominent point of rock left between highway and river immediately across from one story metal-roofed dwelling standing on left bank of river. A chiseled circle painted red.

ELEVATION: 1963.96 feet (E-3)

WM 115 (TVA, 1941; Swain County, North Carolina)

Located on right bank of Tuckasee River, 3 miles downstream from Bryson City Post Office, 25 feet south of Highway 288, on south side of highway, 15 feet east of center line of drain, 60 feet east to telephone pole 2469. A standard tablet stamped "WM 115 1941" and set in monument.

Reference Mark 1: 6.19 feet S 75° E to cross tie.

Reference Mark 2: 11.82 feet S 15° E to cross tie.

Reference Mark 3: 17.77 feet N 70° E to concrete culvert.

NOTE: Submerged at times by Fontana Reservoir; usable when reservoir is low.

GRID POSITION (N.C.): X = 663,644.3; Y = 642,814.2 (T-4)

ELEVATION: 1691.01 feet (T-3)

WM 116 (TVA, 1941; Swain County, North Carolina)

Located on right bank of Tuckasee River, 2.7 miles west on Highway 288 from post office at Bryson City, 24 feet southwest from center line of highway, on south side of railroad, 8 feet from south rail. A standard tablet stamped "WM 116 1941" set in monument.

Reference Mark 1: 10.25 feet N 25° E to a cross tie.

Reference Mark 2: 15.89 feet S 60° E to a cross tie.

Reference Mark 3: 12.40 feet S 35° W to telephone pole No. 2461.

NOTE: Submerged at times by Fontana Reservoir; usable when reservoir is low.

GRID POSITION (N.C.): X = 663,864.9; Y = 641,386.7 (T-4)

ELEVATION: 1703.21 feet (T-3)

WM 117 (TVA, 1941; Swain County, North Carolina)

Located on right bank of Tuckasee River, 1.9 miles west of post office in Bryson, on State Highway 288 0.9 mile west of lumber yard, on south side of highway. A standard tablet stamped "WM 117 1941" and set in monument.

Reference Mark 1: 17.85 feet N 64° W to 6-inch pine.

Reference Mark 2: 83.70 feet S 65° E to 18-inch lone pine.

Reference Mark 3: 17.60 feet S 19° W to center line of highway.

GRID POSITION (N.C.): X = 668,015.7; Y = 641,030.8 (T-4)

ELEVATION: 1727.77 feet (T-3)

WM 118 (TVA, 1941; Swain County, North Carolina)

Located 1.2 miles west along State Highway 288 from station at Bryson City, on right bank of Tuckasee River, on Murphy Branch of Southern Railway, 55 feet southeast of "Station One Mile" sign, 30 feet west of small fill for hand car turnout, 14 feet south of south rail on top of west end of small cut, 1200 feet west of Carolina Wood Turning Co. Plant. A standard tablet stamped "WM 118 1941" set in concrete monument.

Reference Mark 1: 55.50 feet N 60° W to paint on "Station One Mile" sign.

Reference Mark 2: 12.00 feet N 20° E to nail and washer in end of cross tie.

Reference Mark 3: 22.10 feet N 76° E to nail and washer in end of cross tie.

GRID POSITION (N.C.): X = 670,638.9; Y = 638,943.2 (T-4)

ELEVATION: 1723.13 feet (T-3)

TR 21 (USRD, 1928; Jackson County, North Carolina)

Located 1 mile downstream from Dillsboro along U.S. Highway 19, on right bank of Tuckasee River, and opposite railroad sign "Station 1 mile", on upper end of small stone masonry culvert under highway, and 100 feet upriver from shed having extended metal roof, standing at road side. A chiseled cross painted red.

ELEVATION: 1975.88 feet (E-3)

U 37 (USC&GS, 1932; Jackson County, North Carolina)

Located 0.3 mile west along the Southern Railway from the station at Dillsboro, 100 feet east of milepost 48, in the front yard of the F. I. Watson residence, about 90 feet south of the south rail, and about 25 feet west of the west bank of Scott Creek, in a small rock bluff. A standard disk stamped "1974.976 U 37 1932".

ELEVATION: 1,974.852 feet or 601.936 meters (C-1)

V 37 (USC&GS, 1932; Jackson County, North Carolina)

Located at Dillsboro, on U.S. Highway 19, directly in front of an old school building, 40 feet north of the Methodist Church in the north headwall of a concrete culvert, 15 feet north of the center line of the highway, and 4 feet south of a 28-inch maple tree. A standard disk stamped "604.341 V 37 1932".

ELEVATION: 1,982.742 feet or 604.341 meters (C-1)

WATAUGA (USGS, 1934; Macon County, North Carolina)

Located 9 miles by road northeast of Franklin and 12 miles (airline) southwest of Sylva on summit of mountain locally known as Rock Face Knob near Macon-Jackson county line. To reach from Franklin drive northeast on U.S. 23 and 19, 9.0 miles to Watauga Gap. Leave car and follow trail west along summit of mountain about 1/2 mile to top. Station is on newly cutover top, about 10 feet north of summit of mountain. A standard tablet stamped "WATAUGA 1934" set in sandstone boulder 3-inches above ground.

GEODETIC POSITION: Lat. = 35°15'52.163"; Long. = 83°18'58.587" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Distance	Log Meters	Miles
Tremont	50°34'24.7"	230°30'36.8"	4.112032	8.0	
Covee 2	165°58'37.3"	345°57'58.1"	3.849844	4.4	

GRID POSITION (N.C.): X = 711,984.0; Y = 579,177.9 (G-3)

ELEVATION: 4064 feet (T-5)

WM 111 (TVA, 1941; Swain County, North Carolina)

Located 3-1/2 miles northwest of Bryson City Post Office, on right bank of Tuckasee River, 30 feet south of center line of State Highway 288, 17 feet south of center line of railroad track. A standard tablet stamped "WM 111 1941" set in monument.

Reference Mark 1: 4.49 feet N 18° W to nail in telephone pole 2489.

Reference Mark 2: 12.37 feet N 61° E to nail in cross tie.

Reference Mark 3: 11.00 feet S 34° E to stone.

NOTE: Submerged at times by Fontana Reservoir; usable when reservoir is low.

GRID POSITION (N.C.): X = 662,964.6; Y = 646,140.4 (T-4)

ELEVATION: 1679.78 feet (T-3)

WM 119 (TVA, 1941; Swain County, North Carolina)

Located on right bank of Tuckasee River, 0.8 miles west along railroad from station in Bryson City, on Murphy Branch of Southern Railway, 45 feet southeast of west switch of railroad wye, 26 feet south of center line of main track, 12 feet west of center line of deep ditch on top of ditch bank, and 800 feet east of Carolina Wood Turning Co. Plant. A standard tablet stamped "WM 119 1941" and set in concrete post.

Reference Mark 1: 20.10 feet N 05° W to nail and washer in end of cross tie.

Reference Mark 2: 65.50 feet N 80° E to nail and washer in telephone pole 2404.

Reference Mark 3: 40.97 feet N 63° W to paint on railroad switch signal.

GRID POSITION (N.C.): X = 672,585.1; Y = 638,593.5 (T-4)

ELEVATION: 1728.25 feet (T-3)

WM 120 (TVA, 1941; Swain County, North Carolina)

Located 450 feet north of Bryson City Post Office, 29 feet west of center line of Everett Street, running north and south, 27.17 feet N 42° W of center line of main railroad track S 09° W of southwest corner of Slayden Pakes and Company wholesale grocers. A standard tablet stamped "WM 120 1941" and set in west edge of sidewalk.

Reference Mark 1: 25.12 feet S 11° E to center line of railroad switch.

Reference Mark 2: 96.00 feet N 84° E to northwest corner of Bryson City depot.

Reference Mark 3: 3.68 feet N 84° W to northeast corner of Willie's market.

GRID POSITION (N.C.): X = 675,584.2; Y = 641,239.1 (T-4)

ELEVATION: 1732.41 feet (T-3)

WM 146 (TVA, 1941; Swain County, North Carolina)

Located 8.1 miles from Bryson City courthouse on State Highway 28 over looking Horseshoe Bend of Little Tuckasee River, 400 feet northeast from Joel Gibbons house and garage combination. A standard tablet stamped "WM 146 1941" and set in concrete post.

Reference Mark 1: 22.60 feet N 70° E to TVA washer in center line of highway.

Reference Mark 2: 26.20 feet N 30° W to stone.

Reference Mark 3: 40.70 feet N 75° E to stone culvert.

GRID POSITION (N.C.): X = 658,965.2; Y = 613,958.6 (T-4)

WM 147 (TVA, 1941; Swain County, North Carolina)

Located 8.3 miles from Bryson City courthouse, on State Highway 28, in bend in road overlooking Horseshoe Bend of Little Tuckasee River. A standard tablet stamped "WM 147 1941" and set in a concrete post.

Reference Mark 1: 23.10 feet S 75° E to washer in center line of highway.

Reference Mark 2: 50.95 feet S 35° E to stone.

Reference Mark 3: 37.65 feet S 50° E to culvert.

GRID POSITION (N.C.): X = 658,976.7; Y = 613,160.9 (T-4)

WORLEY (USGS, 1934; Swain County, North Carolina)

Located about 2-1/2 miles (airline) northeast of Bryson City and about 6 miles (airline) southwest of Cherokee on property of G. W. Jenkins on head of Betts Branch and a branch of Galbreath Creek, also on top of a knob locally known as Worley Knob. To reach from square in Bryson City, follow U.S. 19 east towards Sylva 2.7 to a side road, turn left on Galbreath Creek road and go 1.35 miles to road fork, turn left on dirt road for 0.55 miles to G. W. Jenkins house, turn right on field road. Unless road is in good shape, leave car here. Station is located on top, which is about N 45° W 1/2 mile from this point. A standard tablet stamped "WORLEY 1934" set in boulder, about 2 feet southeast of blazed 12-inch oak tree on crest of ridge.

Reference Mark 1: 113.5 feet N 50° E to drill hole in rock outcrop.

Reference Mark 2: 8.7 feet S 71° W to drill hole in boulder.

Reference Mark 3: 40.8 feet S 43° E to drill hole in rock outcrop.

GEODETIC POSITION: Lat. = 35°27'34.080"; Long. = 83°25'10.541" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Distance	Log Meters	Miles
Rattlesnake Mountain	253°03'35.8"	73°08'13.7"	4.101004	7.8	
Dillsboro	314°30'19.5"	134°34'54.0"	4.224689	10.4	
* Cliff	350°46'55.8"	170°47'26.6"	3.923008	5.2	

GRID POSITION (N.C.): X = 684,330.5; Y = 651,425.0 (G-3)

ELEVATION: 2752 feet (T-5)