

## SURVEY CONTROL DATA IN QUADRANGLE 176

**AKW 280** (TVA, 1941; Jackson County, North Carolina)

Located 4 miles (airline) west of Toxaway, 1.6 miles north of Sapphire, 35 feet north of center line of Toxaway Mountain road, 240 feet east of a bend which is the uppermost of a series of switchbacks. To reach from Rosman, at the high school, drive west on U. S. Highway 64 for 9.5 miles to Mt. Toxaway Lodge, then continue 6.5 miles to Toxaway Mountain road (locked - key at Ranger's house 0.3 miles west on Highway 64), turn right on Toxaway Mountain road for 1.6 miles to station. A 1- by 1-inch angle iron.

Reference Mark 1: 15.78 feet N 80° W to 10-inch black oak.

Reference Mark 2: 6.60 feet N 58° W to 8-inch mountain oak.

Reference Mark 3: 24.20 feet N 72° E to 12-inch hickory.

GRID POSITION (N. C.): X = 802,823.2; Y = 526,544.7 (T-4)

ELEVATION: 3798 feet (T-5)

**AKW 282** (TVA, 1941; Jackson County, North Carolina)

Located about 1 mile (airline) north of Fairfield Inn, 2-1/2 miles west of Toxaway Fire Tower on highest point of Bald Rock Mountain. To reach from Rosman High School, drive west on U. S. Highway 64 for 18.6 miles to Fairfield Inn entrance, just beyond entrance turn right on Merrie Wood Camp Road for 1.2 miles through camp to end just above Fairfield Falls, end of truck travel, follow trail 150 feet across creek (right) to intersection, then turn left up bank of creek 2000 feet to small clearing (50 feet right), turn right on dim trail through several switchbacks to gap 1/2 mile, thence turn right on trail 1/2 mile to top of rock bluff, turn left on trail (sign "To Tower") 1500 feet east to old tower on highest point. Station is at northeast corner of tower, 12.45 feet from center line. Last water in wet weather is 1000 feet before reaching gap. A 1-inch drill hole in ledge.

Reference Mark 1: 12.45 feet N 82° W to 12-inch oak (in center of tower).

Reference Mark 2: 4.70 feet N 59° W to 8-inch locust post (north-east corner of tower)

Reference Mark 3: 8.30 feet N 31° W to 6-inch locust post.

GRID POSITION (N. C.): X = 794,349.8; Y = 529,394.6 (T-4)

ELEVATION: 4232 feet (T-5)

**AKW 283** (TVA, 1941; Transylvania County, North Carolina)

Located at Sapphire, 2-1/2 miles southwest of Toxaway Mountain Fire Tower, in patch of woods 50 feet southwest of stile over fence line, 20 feet west of fence line, 30 feet south of woods road on center line of ridge. To reach from Rosman High School drive west on U. S. Highway 64 for 16.3 miles to T-road left at Forest Warden's house (Rogers), turn left on road to Sapphire 1.3 miles to curve in small gap. Station is 100 feet east of road at this point. A 1- by 1-inch angle iron stamped "AKW 283 1941".

Reference Mark 1: 12.90 feet S 32° E to 6-inch white oak.

Reference Mark 2: 9.02 feet S 38° W to 3-inch white oak.

Reference Mark 3: 2.30 feet N 18° W to 12-inch black oak.

GRID POSITION (N. C.): X = 803,166.6; Y = 518,995.9 (T-4)

ELEVATION: 3230 feet (T-5)

**B 1** (TVA, 1944; Jackson County, North Carolina)

Located 1.6 miles west of Glenville Dam, northwest edge of Pine Creek road, in front of two-story frame house painted white. A chiseled cross on high point of 2- by 6-foot boulder.

ELEVATION: 3529.60 feet (T-3)

**B 2** (TVA, 1944; Jackson County, North Carolina)

Located 0.9 miles west of Glenville Dam, 12 feet west of and 1 foot above center line of Pine Creek road. A chiseled circle.

ELEVATION: 3505.69 feet (T-3)

**B 3** (TVA, 1944; Jackson County, North Carolina)

Located 1/2 mile west of Glenville Dam, on rock, 12 feet north of and 1 foot higher than center line of Pine Creek road, opposite pipe culvert at west end of borrow pit. A chiseled circle.

ELEVATION: 3504.82 feet (T-3)

**BM 10** ( ? , Nantahala Power & Light Company, Jackson County, N. C.)

Located near Glenville Dam, in side of diversion tunnel hoist house at left of door facing road, about 60 feet west of west end of bridge over spillway. A spike.

ELEVATION: 3505.89 feet (T-3)

**BM 3036.8** (USGS, 1934; Transylvania County, North Carolina)

Located 7.9 miles south of Oakland, 1.6 miles south of Bohaynee School, about 1000 feet south of bridge over a small stream, 15 feet west of center line of road, in root on the east side of 24-inch white pine tree. A wire nail.

ELEVATION: 3036.51 feet (G-3)

**BM 3181.2** (USGS, 1934; Transylvania County, North Carolina)

Located 6.8 miles south of Oakland, 0.5 miles south of Bohaynee School, 15 feet west of the center line of road, in root on the south side of 20-inch oak tree. A wire nail.

ELEVATION: 3180.96 feet (G-3)

**CHS 141** (TVA, 1942; Jackson County, North Carolina)

Located in northwest corner of Quadrangle 176. To reach from McKee Training School at Cullowhee College, go east approximately 400 feet, turn right on gravel road and go 2.5 miles to Speedwell, turn right up Tilley Creek road, go 0.3 miles, turn left at Y-road, still up Tilley Creek, go 2.95 miles to Y-road intersection at old barn, leave car and walk southeast approximately 500 feet to mouth of hollow and old logging road (just across creek and orchard), follow log road approximately 2000 feet to forks of hollow, keep left fork and go approximately 200 feet to three trails intersection, take center trail and left fork again, follow trail to low gap in ridge at open field, turn right up path along center line of ridge, go approximately 900 feet to second ledge. Angle iron is approximately 20 feet north of center line of ridge. A 1- by 1-inch angle iron.

Reference Mark 1: 8.11 feet S 34° E to nail in 6-inch oak.

Reference Mark 2: 13.21 feet N 31° E to nail in 4-inch oak stump.

Reference Mark 3: 17.03 feet N 49° W to nail in 4-inch oak.

GRID POSITION (N. C.): X = 741,155.5; Y = 570,414.4 (T-4)

ELEVATION: 3944 feet (T-5)

**CHS 144** (TVA, 1942; Macon County, North Carolina)

Located near west edge of Quadrangle 176 NW. To reach from post office at Franklin, go northeast on Highway 23 for 0.5 miles, turn right on Highway 64 and go 4.8 miles, turn left at Clarks Service Station up Ellijay Creek road, go 2.0 miles, turn right at T-road intersection, go 2.6 miles to T-road intersection, turn right up south prong of Ellijay Creek and toward post office at Ellijay, go 1.8 miles to Y-road intersection, turn left, go 0.7 miles to Y-road intersection, turn left, go 0.3 miles to T-road at house, keep left and go 0.6 miles to old house and barn, also end of road, leave car and take trail east up hollow, go approximately 1000 feet to forks of hollow, turn right, go 500 feet to low gap, turn left up steep slope, go 700 feet to highest point on hill. Angle iron is 12.0 feet S 3° E from highest point on hill. A 1- by 1-inch angle iron.

Reference Mark 1: 11.42 feet N 03° W to twin oak.

Reference Mark 2: 7.41 feet S 28° E to 18-inch oak.

Reference Mark 3: 5.43 feet S 55° W to 8-inch hickory.

GRID POSITION (N. C.): X = 733,303.5; Y = 554,448.6 (T-4)

ELEVATION: 3996 feet (T-5)

**CHS 145** (TVA, 1942; Jackson-Macon Counties, North Carolina)

Located 10 miles (airline) from Franklin. To reach from Franklin, drive north on Highway 23 for approximately 0.5 miles, turn left on U. S. Highway 64, go 7.8 miles to Y-road intersection, turn left up Walnut Creek road, go 5.5 miles (the road is very rough, but is being improved) to Walnut Gap, turn left and keep right hand fork around east side of mountain (road very rough and very steep), go approximately 1 mile to old house in apple orchard at Arnold Field's, leave car and walk west along old wagon road to low gap, turn right and go approximately 1000 feet to south edge of small clump of bushes 200 feet north of angle point in ridge, 60 feet south of fence line, and 5 feet east of path. A 1- by 1-inch angle iron.

GRID POSITION (N. C.): X = 738,297.1; Y = 548,955.0 (T-4)

ELEVATION: 4376 feet (T-5)

**CHS 149** (TVA, 1942; Jackson County, North Carolina)

Located in central part of Quadrangle 176. To reach from intersection of Highways 64 and 107 (this intersection is approximately 0.6 miles north of post office at Cashiers), drive north on Highway 107 (toward Glenville) for 1.35 miles to top of ridge, turn left at Y-road, go 2.10 miles to cleared field, turn right along old road at edge of woods, go 0.15 miles, turn left at Y-road and go 0.1 miles, turn left at Y-road and go 0.65 miles to field road, turn right and go 0.1 miles to high point on cleared knoll. Angle iron is 15 feet north from highest point on hill. A 1- by 1-inch angle iron.

Reference Mark 1: 42.80 feet N 25° E to 3-inch persimmon (tack).

Reference Mark 2: 28.40 feet N 79° E to 4-inch cherry (tack).

Reference Mark 3: 33.60 feet S 63° E to 4-inch dogwood (tack).

Note: Searched for but not recovered, March, 1946. Possibly destroyed by cultivation.

GRID POSITION (N. C.): X = 764,790.1; Y = 531,495.8 (T-4)

ELEVATION: 4008 feet (T-5)

**CHS 150** (TVA, 1942; Macon County, North Carolina)

Located in west central portion of Quadrangle 176. To reach from intersection of Highways 64 and 107 approximately 0.6 miles north of post office at Cashiers, drive west on Highway 64 for 7.7 miles to Buck Creek Road, turn right and go 0.6 miles, turn right at Y-road, go 0.1 miles, turn left at Y-road, go 4.5 miles to U-bend in road, leave car and walk west down hill approximately 150 feet to creek, cross creek and turn left, follow trail to house approximately 500 feet, continue on in same direction approximately 300 feet to south edge of old orchard, 30.5 feet N 88° E from south one of clump of apple trees. A 1- by 1-inch angle iron.

GRID POSITION (N. C.): X = 738,332.7; Y = 527,289.0 (T-4)

ELEVATION: 3936 feet (T-5)

**CHS 155** (TVA, 1942; Jackson County, North Carolina)

Located near south edge of Quadrangle 176 SE. To reach from Highlands, go east on Bull Pen Road (gravel) toward Whiteside Cove, 4.7 miles to road intersection, turn right and go 5.8 miles to log road to right, turn right and go 1.2 miles (keeping to right at top of hill) to sharp bend in road and end of truck travel, leave truck and walk west up hill approximately 500 feet to highest point on ridge and station. A 1- by 1-inch angle iron.

Reference Mark 1: 6.25 feet S 22° 30' W to 4-inch oak.

Reference Mark 2: 3.0 feet N 30° W to 12-inch oak.

Reference Mark 3: 2.0 feet S 30° E to 18-inch chestnut log.

GRID POSITION (N. C.): X = 772,979.8; Y = 484,788.4 (T-4)

ELEVATION: 3103 feet (T-5)

**CULLOWHEE** (USGS, 1934; Jackson County, North Carolina)

Located about 10 miles southeast of Sylva, and about 6 miles north-west of Glenville, on highest point of Cullowhee Mountain, on Cherry Knob, locally known as Cedar Cliff on land owned by Morris Buchmann. To reach from junctions of U. S. Highway 19 and State Highway 106, go 7.75 miles from east end of Main Street in Sylva to side road at Western North Carolina Teacher's College, turn right on gravelled road 2.5 miles to road fork (store building on left and wooden bridge crossing creek), thence keep straight ahead (left fork) for 2.35 miles to road forks, turn left on main traveled road for 1.1 miles to road forks on left, turn sharp left on log road (locally known as Cedar Cliff road) for a distance of about 1 mile, leave car in turn of road just above fence in field on left as this is the best place to turn, thence follow road to top of the ridge about 1/4 mile, turn left on ridge trail leading in a northeasterly direction for about 1/2 mile to station which is highest point on ridge in cleared pasture. A standard tablet stamped "CULLOWHEE 1934" set in boulder flush with ground on highest point of Cedar Cliff Mountain.

Reference Mark 1: 11.75 feet S 45° 03' E to drill hole in boulder.

Reference Mark 2: 12.5 feet S 11° 13' W to drill hole in boulder.

Reference Mark 3: 14.6 feet S 53° 49' W to drill hole in boulder.

GEODETIC POSITION: Lat. = 35° 14' 48.079"; Long. = 83° 09' 41.176" (G-3)

To Station Azimuth Back Azimuth Log. Meters Miles

Hogback 29° 52' 50.5" 209° 50' 40.6" 4.058699 7.1

Roarenhole 98 19 37.9 278 16 46.4 3.880343 4.7

Double Top 201 55 14.2 21 57 25.5 4.186409 9.5

GRID POSITION (N. C.): X = 757,889.5; Y = 570,732.2 (G-3)

ELEVATION: 4292 feet (T-5)

D 86 (USCGS, 1935; Macon County, North Carolina)

Located 1 mile south of the junction of U. S. Highway 64 and State Highway 28 at Highlands, along State Highway 28, and T-road west, 0.9 miles from the highway intersection, and 0.1 miles west on T-road, 75 yards north of entrance to a house on west side of road, 28 feet west of center line of road, 21 feet south of center line of a road that runs west, 2.5 feet south of fence corner, 1.5 feet east of fence line. A standard tablet stamped "D 86 1935" and set in the top of a concrete post, about 6 inches above the ground.

ELEVATION: 3823.316 feet or 1165.349 meters (C-2)

DDS 14 (TVA, 1942; Jackson County, North Carolina)

Located in the extreme west central portion of Quadrangle 176 NE. To reach from Glensville, drive north on State Highway 107 to crossroads, turn right and drive northeast 0.70 miles to Y-road intersection, turn left and drive north for 0.35 miles to T-road northwest, turn left on T-road and drive 600 feet to fence and bars, park car here and walk north up grassy slope 300 feet to station. A 1-by-1-inch angle iron stamped "DDS 14" and set at the base of a 12-inch dead chestnut stump.

Reference Mark 1: 0.25 feet N 75° E to nail in 12-inch stump.

Reference Mark 2: 12.57 feet N 02° E to nail in 12-inch stump.

GRID POSITION (N. C.): X = 768,734.2; Y = 551,805.9 (T-4)

ELEVATION: 4057 feet (T-5)

DDS 22 (TVA, 1942; Macon County, North Carolina)

Located in the west central portion of Quadrangle 176 SW. To reach from Highlands, drive northwest along U. S. Highway 64 for 4.5 miles from intersection of U. S. Highway 64 and State Highway 28 to Cliffside Lake road, turn right and drive 0.20 miles to west, here power line crosses road, park car and walk west 400 feet up power line to first angle point in line. Station is on the south edge of right-of-way of power line. A 1-by-1-inch angle iron stamped "DDS 22" and set directly under a 10-inch pine tree.

Reference Mark 1: 0.99 feet S 84° E to 401 nail in 10-inch pine.

Reference Mark 2: 6.89 feet N 04° W to 401 nail in 4-inch oak.

Reference Mark 3: 14.30 feet N 67° W to 401 nail in 4-inch oak.

GRID POSITION (N. C.): X = 729,093.0; Y = 511,036.6 (T-4)

ELEVATION: 3340 feet (T-5)

DDS 26 (TVA, 1942; Macon County, North Carolina)

Located in the southwest corner of Quadrangle 176 SW. To reach from Highlands, at the intersection of U. S. Highway 64 and State Highway 106, drive southwest on Highway 106 for 2.40 miles to Gnat Ridge and Blue Valley road, turn left and drive 2.50 miles to T-road intersection, park car and walk south-east up wooded slope and dim trail for 370 feet. Station is 3 feet south of two pine trees on north edge of dim trail on center line of ridge. A 1-by-1-inch angle iron stamped "DDS 26".

Reference Mark 1: 2.75 feet N 57° E to nail and washer in 12-inch pine tree.

Reference Mark 2: 2.75 feet N 12° E to nail and washer in 16-inch pine tree.

Reference Mark 3: 6.30 feet S 65° W to nail and washer in 7-inch pine tree.

GRID POSITION (N. C.): X = 732,782.4; Y = 486,363.9 (T-4)

ELEVATION: 2702 feet (T-5)

DDS 27 (TVA, 1942; Macon County, North Carolina)

Located near the south edge of Quadrangle 176 SW. To reach from intersection of U. S. Highway 64 and State Highway 28 in Highlands, drive south on State Highway 28 for 5.65 miles to Y-road intersection, turn left on gravel road and drive 0.30 miles to old frame house on left side of road, park car here and walk south up slope 300 feet to station, in south edge of apple orchard, 20 feet north of north edge of wood, 120 feet east of east edge of woods. A 1-by-1-inch angle iron stamped "DDS 27" and driven flush with ground.

Reference Mark 1: 17.73 feet N 40° W to nail and washer in 3-inch apple tree.

Reference Mark 2: 26.88 feet N 45° E to nail and washer in 6-inch apple tree.

Reference Mark 3: 13.03 feet S 35° E to nail and washer in 3-inch apple tree.

GRID POSITION (N. C.): X = 742,446.7; Y = 482,516.0 (T-4)

ELEVATION: 2662 feet (T-5)

DDS 28 (TVA, 1942; Macon County, North Carolina)

Located in the southeast corner of Quadrangle 176 SW. To reach from Highlands, drive southeast on Bull Pen Road (gravel) for 6.2 miles, keeping right, to hairpin curve and "SN 395", park car here and take trail (very good) southeast up slight upgrade, crossing one ridge, thence down slight grade through slight saddle to small pine covered knoll (200 feet east of trail), in all from the road a distance of approximately 1.0 miles. Station is 100 feet northeast of top on lead ridge, 8 feet south of center line of ridge. A 1-by-1-inch angle iron stamped "DDS 28".

Reference Mark 1: 6.63 feet S 86° E to nail and washer in 20-inch blazed pine tree.

Reference Mark 2: 9.48 feet N 22° E to nail and washer in 3-inch oak.

Reference Mark 3: 4.46 feet S 12° W to nail and washer in 3-inch oak.

GRID POSITION (N. C.): X = 762,277.3; Y = 484,048.2 (T-4)

ELEVATION: 2939 feet (T-5)

DOUBLE MOUNTAIN (USGS, 1934; Jackson County, North Carolina)

Located about 10 miles northeast of Highlands on land of Wolf Mountain Lumber Company, on Double Knob. To reach from Tokaway Railroad station, drive north on State Highway 281 for 0.6 miles to intersection at church on left, turn left on Cold Mountain Gap road (up Tokaway River) for 5.5 miles to Cold Mountain Gap (residence of Miss Katherine Davis on right), continue thru gap 6.0 miles to gap, turn right in gap and follow dim logging road along center line of ridge in northerly direction about 0.3 miles, then west along center line of main ridge to station, end of truck travel is approximately 0.2 miles from gap at steep grade to main ridge. A standard U.S.F.S. tablet stamped "1934 Date 1934" in concrete post flush with ground on crest of wooded hilltop.

Reference Mark 1: 48.0 feet to drill hole in rock outcrop.

Reference Mark 2: 10.3 feet to drill hole in boulder.

Reference Mark 3: 14.3 feet to drill hole in boulder.

GEODETIC POSITION: Lat. = 35°09'44.897"; Long. = 83°03'44.871" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Whitesides	37°28'29.1"	217°25'15.3"	4.054832	7.0
Hogback Mtn.	87°46'27.2"	267°40'52.3"	4.168264	9.2
Rich	189°33'07.0"	9°34'02.5"	4.163613	9.1
Tokaway	295°14'01.5"	115°16'45.6"	3.902009	5.0

GRID POSITION (N. C.): X = 786,160.6; Y = 538,884.6 (G-3)

ELEVATION: 4548 feet (T-5)

E 55 (USCGS, 1934; Macon County, North Carolina)

Located 4.4 miles northwest along U. S. Highway 64 from Highlands, 1/4 miles southeast of Riverside Camp, about 50 yards west of a wooden bridge, about 21 yards east of the center line of a crossroad leading south from a "Winding Road" sign, and about 10 yards south of the center line of the highway. A standard tablet stamped "3230.840 E 55 1934" and set in concrete monument 7 inches above ground.

ELEVATION: 3230.653 feet or 984.705 meters (C-2)

E 86 (USCGS, 1935; Macon County, North Carolina)

Located 3 miles south of the junction of U. S. Highway 64 and State Highway 28 at Highlands, on State Highway 28, approximately 150 yards north of a large house on the east side of highway, 73 yards north of highway milepost 3, 32 feet west of the center line of highway, 14 feet east of a 20-inch oak tree. A standard tablet stamped "E 86 1935" and projecting 5 inches above ground.

ELEVATION: 3332.464 feet or 1015.737 meters (C-2)

F 55 (USCGS, 1934; Macon County, North Carolina)

Located about 3 miles northwest along U. S. Highway 64 from Highlands, 0.5 miles west of Bridal Veil Falls and the Highlands hydroelectric power plant, at the middle of a horseshoocurve, about 4 yards east of a side road leading north, about 4 yards north of the edge of a 5-foot bank, and 9 yards north of the center line of the highway. A standard tablet stamped "3509.484 F 55 1934" and set in concrete monument, projecting 5 inches above ground.

ELEVATION: 3509.291 feet or 1069.634 meters (C-2)

F 86 (USCGS, 1935; Macon County, North Carolina)

Located 5.1 miles south of the junction of U. S. Highway 64 and State Highway 28 at Highlands, on State Highway 28, 85 yards southwest of highway milepost 5, 23 feet southeast of center line of highway, set in granite rock at a level with ground, 1.6 miles north of the North Carolina-Georgia State line. A standard tablet stamped "F 86 1935".

Note: Searched for but not recovered, July, 1946.

ELEVATION: 2867.616 feet or 874.051 meters (C-2)

G 55 (USCGS, 1934; Macon County, North Carolina)

Located about 1-1/2 miles northwest along U. S. Highway 64 from Highlands, about 22 yards east of the center line of a T-road leading north, across the highway to the north from the "Highlands City Limits" sign, about 9 yards north of the center line of the highway, and about 6 yards west of the pole of a power-transmission line crossing the highway. A standard tablet stamped "3721.183 G 55 1934" and set in concrete monument about 4 inches above ground.

ELEVATION: 3720.977 feet or 1134.156 meters (C-2)

GAGE RM 1 (USGS, 1927; Macon County, North Carolina)

Located 0.25 miles downstream from Highlands municipal power dam in Cullasaja River, and 2 miles northwest of Highlands, near U. S. Highway 64, on ledge rock in midstream, directly opposite intake pipe to gage well, 1.25 feet above gage zero. A standard bronze reference tablet set in ledge rock.

ELEVATION: 3374.9 feet (G-4 approx. MSL)

GAGE RM 2 (USGS, 1927; Macon County, North Carolina)

Located on left bank of Cullasaja River, 0.25 miles downstream from Highlands municipal power dam and 2 miles northwest of Highlands, near U. S. Highway 64, in left side of control ledge, 40 feet downstream from gage and 2 feet from left edge of water, 1.03 feet above gage zero. A standard bronze reference tablet in ledge rock.

ELEVATION: 3374.7 feet (G-4 approx. MSL)

H 55 (USCGS, 1934; Macon County, North Carolina)

Located at Highlands, on U. S. Highway 64 (Main Street), about 50 yards west of the center line of the intersection with State Highway 28, across the highway to the south from the brick store building of Potts Brothers, about 10 yards south of the south edge of U. S. Highway 64, and about 1 yard south of the corner of a picket fence. A standard tablet stamped "3835.189 H 55 1934" and set in concrete monument.

ELEVATION: 3834.979 feet or 1168.904 meters (C-2)

HIGHLANDS 1 (USGS, 1934; Macon County, North Carolina)

Located about 12 miles southeast of Franklin, and about 2-1/2 miles west of Highlands, on the southeast butt of Dog Mountain. To reach from the junction of U. S. Highway 64 and State Highway 106 at Highlands, drive southwest on Highway 106 for 1.5 miles to T-road right, turn right and drive on main traveled road for 0.6 miles to a swing gate, turn left here and drive 0.2 miles to end of road (through old field), leave car here and proceed about 1/4 mile south to an east-west fence line, thence west about 1/4 mile to top of ridge along the fence line, leave fence line at top of ridge and go to southeast butt of ridge where station is located on the east edge. A 3/4-inch drill hole in rock set flush with ground on the southeast side of the tree.

GEODETIC POSITION: Lat. = 35°03'14.708"; Long. = 83°13'58.599" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Hogback Mtn.	184°03'43.0"	4°04'01.4"	4.059527	7.1
Whiteside	250°44'04.0"	70°47'20.0"	3.961790	5.7
Satula	298°16'33.3"	118°17'57.1"	3.623697	2.6

GRID POSITION (N. C.): X = 733,571.0; Y = 501,604.0 (G-3)

ELEVATION: 4233 feet (T-5)

HIGHLANDS 3 (USGS, 1934; Macon County, North Carolina)

Located about 8 miles northeast of Franklin, and about 11 miles northwest of Highlands, on top of Little Rocky Mountain. To reach from the junction of State Highways 28 and 285 at Franklin, drive east toward Highland for 4.9 miles, turn left on the Ellijay Road and drive on main road 4.65 miles to a fork road, turn left and drive 2.4 miles to the home of Allen Adams, leave

car and follow well defined trail to the top of Little Rock Mountain (a distance of about 1 mile). A 3/4-inch drill hole in rock set flush with ground about 2 feet southeast of base of 14-inch oak tree.

GEODETIC POSITION: Lat. = 35°12'06.573"; Long. = 83°14'42.108" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Fishhawk	27°51'09.1"	207°48'50.7"	4.115053	8.1
Hyatt	79 10 13.1	259 06 35.7	3.987497	6.0
Hogback Mtn.	338 51 48.6	158 52 32.2	3.724842	3.3

GRID POSITION (N. C.): X = 732,255.9; Y = 555,476.4 (G-3)  
ELEVATION: 3978 feet (T-5)

#### HIGHLANDS 5 (USGS, 1934; Jackson County, North Carolina)

Located about 1/2 mile northeast of Glenville, and about 9 miles northeast of Highlands, on land owned by Carl Higdon. To reach station from Glenville, drive north from post office 0.05 miles to a fork road, here turn left on Highway 107, thence drive 0.4 miles to a T-road left, turn left and drive 0.6 miles to the home of O. L. Lanning, leave car here and proceed southeast about 1/4 mile to top of bald hill. Station is on highest point of hill about 10 feet north of an east-west fence line. A 3/4-inch drill hole in rock set on the southeast side of 40-inch chestnut pole, set 4 feet in ground and gaged, about 1 foot from its base.

GEODETIC POSITION: Lat. = 35°10'41.967"; Long. = 83°08'09.828" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Whiteside	1°00'51.2"	181°00'46.9"	4.032103	6.7
Yellow Mtn.	46 48 13.3	226 46 18.4	3.840705	4.3
Roarenhole	131 29 28.2	311 25 44.3	4.117637	8.1

GRID POSITION (N. C.): X = 764,422.6; Y = 545,557.1 (G-3)  
ELEVATION: 3786 feet (T-5)

#### HIGHLANDS 6 (USGS, 1934; Jackson County, North Carolina)

Located about 8 miles northeast of Highlands, on Chimneytop Mtn. To reach from Highlands, drive north from Main Street on U. S. Highway 64 for 10.35 miles to intersection of State Highways 107 and U. S. Highway 64, go right on Highway 107 for 1.55 miles to entrance driveway of High Hampton Hotel, go left into hotel grounds and take trail leading in an easterly direction to top of Chimneytop Mountain. Station is U. S. Forest Service tablet in rock outcrop on highest point of Chimneytop Mountain.

Note: Station can be occupied.

GEODETIC POSITION: Lat. = 35°06'07.123"; Long. = 83°03'50.675" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Whiteside	71°15'01.6"	251°12'28.3"	3.853358	4.4
Hogback Mtn.	112 50 28.0	292 44 56.7	4.199045	9.8
Double Mtn.	181 15 14.5	1 15 17.9	3.826897	4.2

GRID POSITION (N. C.): X = 784,778.1; Y = 516,907.7 (G-3)  
ELEVATION: 4618 feet (T-5)

#### HIGHLANDS 7 (USGS, 1934; Jackson County, North Carolina)

Located 11 miles southeast of Sylva, on land owned by M. L. Coggins. To reach from Sylva Post Office, drive east on U. S. Highways 19 and 23 for 0.2 miles to intersection of Highways 19, 23 and 107, go right on Highway 107 for 7.8 miles to side road, go right for 0.15 miles to road fork, go left for 0.35 miles to road fork, go left for 1.0 miles to road fork, go right for 1.0 miles to road fork, thence go left for 2.5 miles to road fork, go right for 0.4 miles to road fork, go left for 1.75 miles to road fork, thence go left for 3.2 miles to house owned and occupied by M. L. Coggins, leave car here and go in an northeasterly direction to cleared top. Station is 3/4-inch drill hole in small rock outcrop about 35 feet southwest of outstanding rock outcrop on top of hill.

Note: Station can be occupied.

GEODETIC POSITION: Lat. = 35°12'56.698"; Long. = 83°10'44.423" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Hogback Mtn.	32°16'49.7"	212°15'16.3"	3.889420	4.8
Roarenhole	127 27 38.9	307 25 24.0	3.872107	4.6
Cullowhee	204 58 40.3	24 59 16.8	3.578264	2.4

GRID POSITION (N. C.): X = 752,174.8; Y = 559,702.6 (G-3)  
ELEVATION: 4049 feet (T-5)

#### HIGHLANDS 9 (USGS, 1934; Jackson County, North Carolina)

Located about 6 miles northwest of Lake Toxaway Post Office, 1.2 miles west of Owens Gap, on property of Wolf Mountain Lumber Company. To reach from Lake Toxaway Post Office, follow State Highway 281 northwest 10.05 miles to road left about 1.0 miles west of Owens Gap, turn left across bridge over Panthertown Creek and follow left hand road 1.2 miles to a trail right just before reaching a log bridge, follow trail north about 0.3 miles, passing an old barn in a small clearing to a small wooded knob just north of a grassy top. A drill hole in top of rock set in place under 8-inch oak tree.

Note: Mr. G. W. Owens, warden for Wolf Mountain, lives in first house after crossing Panthertown Creek and will be glad to show way to station.

GEODETIC POSITION: Lat. = 35°12'08.032"; Long. = 83°00'28.514" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Dillsboro	123°26'06.3"	303°16'24.0"	4.484344	19.0
Double Top	156 48 58.4	336 45 50.4	4.319510	13.0
Rich	165 40 50.2	345 39 52.1	4.012054	6.4
Waynesville				
No. 12	185 10 34.3	5 10 55.6	4.014823	6.4

GRID POSITION (N. C.): X = 803,033.0; Y = 552,680.2 (G-3)  
ELEVATION: 3855 feet (T-5)

#### HOGBACK MOUNTAIN (USGS, 1933; Macon County, North Carolina)

Located on summit of Hogback Mountain, near Jackson-Macon County line, and approximately 10 miles (airline) and 15 miles by road east of Franklin. To reach from Franklin, go east toward Highlands 7.8 miles on U. S. Highway 64 (North Carolina Highway 28), turn left onto dirt and gravel road, proceed 5.5 miles along rough main-traveled road to Deep Gap, continue on foot along well-marked trail to right (old wagon road), and follow to summit. (This trail goes around mountain to an old field. Turn left here and follow on old sled road to another field on top. Turn right here and follow along ridge to summit). Total climb is about 1-1/2 miles. Station is south of slightly higher rock outcrop, and 10 feet southeast of 8-inch water-oak stump. Station is a standard bronze tablet set in concrete in a depression in outcropping bedrock.

Reference marks are standard bronze tablets, with the arrows pointing toward the station, each set in concrete in a depression in outcropping bedrock.

Reference mark 1 is on eastern downward slope of ridge, and 18.723 meters (61.43 feet) (slope) from station in geodetic azimuth 285°38'. Reference mark 2 is along ridge in rock outcrop slightly higher than station, and 5.820 meters (19.09 feet) from station in geodetic azimuth 39°51'.

Azimuth mark is fire tower on Rabun Bald.

GEODETIC POSITION: Lat. = 35°09'25.944"; Long. = 83°13'26.501" (C-1)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Water Rock	192°57'07.93"	13°00'07.41"	4.5432029	21.7
Black Mtn.	238 46 37.89	58 56 53.99	4.4990279	19.6

Azimuth mark, fire tower 18 02 15.6  
GRID POSITION (N. C.): X = 737,833.39; Y = 538,985.18 (C-1)  
Grid Azimuth to azimuth mark, fire tower: 20°28'32.3"  
ELEVATION: 4935 feet (T-5)

#### J 55 (USGS, 1934; Macon County, North Carolina)

Located 2 miles northeast along U. S. Highway 64 from Highlands, about 0.5 miles north of a concrete bridge, about 0.5 miles south of a side road leading west, about 100 yards north of a frame house with a rock terraced yard, in the front yard of a shingle-covered bungalow, about 14 yards south of the center line of an entrance walk and 11 yards west of the center line of the highway. A standard tablet stamped "3818.329 J 55 1934" and set in concrete monument, projecting 6 inches above ground.

ELEVATION: 3818.106 feet or 1163.761 meters (C-2)

#### JCP 1 (TVA, 1942; Jackson County, North Carolina)

Located in center of Quadrangle 176. To reach from Highlands, drive east on Highway 64 to highway intersection at Cashiers, turn left and go 1.2 miles on Highway 107 to side road left, turn left and go 0.95 miles to bridge and dam, pass over bridge and go 0.2 miles to T-road intersection, keep right 0.3 miles to field road right, take field road and go 0.2 miles to rail fence and end of truck travel, leave truck, cross fence, and go 300 feet up old woods road to highest point on ridge and station. A 1-by-1-inch angle iron.

Reference Mark 1: 22.8 feet S 72° W to 12-inch locust.

Reference Mark 2: 5.6 feet N 14° E to 8-inch oak.

Reference Mark 3: 21.28 feet S 78° E to 12-inch oak.

GRID POSITION (N. C.): X = 766,372.3; Y = 526,892.1 (T-4)  
ELEVATION: 4014 feet (T-5)

#### JCP 2 (TVA, 1942; Jackson County, North Carolina)

Located in west central portion of Quadrangle 176 SE. To reach from highway intersection and Main Street in Highlands, drive east on Highway 64 for 10.3 miles to highway intersection in Cashiers, turn right, go 3.3 miles to dirt road right, turn right, go 1.35 miles to poor log road, turn right and go 0.15 miles to old shack in road fork, turn left and go 0.2 miles to where road parallels picket fence and end of truck travel, leave car and cross fence and go to highest point in field and station. A 1-by-1-inch angle iron.

Reference Mark 1: 13.51 feet N 07° E to 24-inch chestnut log.

Reference Mark 2: 11.88 feet N 57° E to 8-inch chestnut stump.

GRID POSITION (N. C.): X = 777,156.0; Y = 504,039.9 (T-4)  
ELEVATION: 3669 feet (T-5)

#### K 55 (USGS, 1934; Macon County, North Carolina)

Located 4.2 miles northeast along U. S. Highway 64 from Highlands, 1.3 miles west of the Macon-Jackson County line, about 8 yards south of the center line of the highway, about 6 yards east of the center line of a private entrance drive, and at a rail fence corner. A standard tablet stamped "4094.631 K 55 1934" and set in concrete monument, projecting 2 inches above ground.

Note: Searched for but not recovered, July, 1946.

ELEVATION: 4094.401 feet or 1247.976 meters (C-2)

#### L 55 (USGS, 1934; Jackson County, North Carolina)

Located 3.8 miles west along U. S. Highway 64 from Cashiers, 0.9 miles east of the Jackson-Macon County line, at a 6-foot fill, about 18 feet north of an eastward turn of the old road, and about 10 yards north of a "Winding Road" sign on the west side of the highway, and about 12 yards east of the center line of the highway. A standard tablet stamped "3987.223 L 55 1934" and set in concrete monument projecting about 5 inches above ground.

ELEVATION: 3986.980 feet or 1215.234 meters (C-2)

#### LFT 1642 (TVA, 1939; Jackson County, North Carolina)

Located 2.3 miles south of post office at Tuckaseegee, 17.3 miles southeast of courthouse at Sylva, 15.0 miles north of post office at Cashiers, on State Highway 107, on the right-of-way, on right bank of west fork of Tuckaseegee River, 9.4 miles southeast of post office at Cullowhee, 5.8 miles south of East Lafort, at a concrete culvert, 0.8 feet south of north end of east headwall, 19 feet south of corner of barbed wire fence at pole gate, 18 feet south of "Winding Road" sign, about 150 feet north of small one-story frame house, 9.0 feet north of 4-by-4-inch concrete highway marker at south end of headwall, 24 feet west of 6-inch poplar tree in fence line. A standard tablet stamped "LFT 1642 1940" and set horizontally in headwall of concrete culvert.

Reference Mark 1: 29.0 feet N 45° E to 3-inch maple tree.

Reference Mark 2: 66.0 feet S 35° E to 24-inch black walnut tree.

Reference Mark 3: 14.5 feet West to center line of highway.

ELEVATION: 2217.761 feet or 675.975 meters (T-2)

#### LFT 1644 (TVA, 1939; Jackson County, North Carolina)

Located 4.5 miles southwest of post office at Tuckaseegee, 19.5 miles southeast of courthouse at Sylva, 12.8 miles north of post office at Cashiers, on State Highway 107, on right bank of west fork of Tuckaseegee River, about 11.6 miles southeast of post office at Cullowhee, 8.0 miles upstream from East Lafort, on east side of highway, 36 feet from center line of highway, 31 feet north of north end of headwall of concrete culvert over small drain, 81 feet south of angle in stone headwall to 18-inch metal culvert, 14 feet east of ditch line, near south edge of an old abandoned sand pit. A standard tablet stamped "LFT 1644 1940" and set in concrete monument.

Reference Mark 1: 83.0 feet N 60° W to 3-inch black oak.

Reference Mark 2: 60.0 feet N 55° E to 12-inch white oak on bank above (slope chain.)

Reference Mark 3: 31.0 feet S 20° W to north end of concrete headwall.

ELEVATION: 2429.139 feet or 740.403 meters (T-2)

LHT 1645 (TVA, 1939; Jackson County, North Carolina)

Located 5.4 miles southwest of post office at Tuckasee, 20.4 miles southeast of courthouse at Sylva, 11.9 miles north of post office at Cashiers, on State Highway 107, right bank of west fork of Tuckasee River, left bank of Trout Creek, about 8.9 miles south of East Laport, on south side of highway, 24.5 feet from center line of highway, 22 feet west of center line of T-road, about 100 feet south of mouth of Trout Creek, 12 feet south of east end of 18 inch metal culvert, 56 feet west of west end of headwall of upstream end of concrete bridge over Trout Creek, set flush in rock outcrop just west of T-road intersection and about 1.5 feet above surface of highway, about 300 feet east of where telephone line crosses highway up river above Trout Creek. A standard tablet stamped "LHT 1645 1940" and set horizontally in rock outcrop.

Reference Mark 1: 41.4 feet Due East to 15-inch locust tree.

Reference Mark 2: 12.5 feet Due North to angle in stone headwall to culvert.

Reference Mark 3: 27.0 feet S 20° W to 5-inch poplar tree on bank above (slope chain).

ELEVATION: 2469.313 feet or 752.648 meters (T-2)

LHT 1646 (TVA, 1939; Jackson County, North Carolina)

Located 6.3 miles south of post office at Tuckasee, 21.3 miles southeast of courthouse at Sylva, 11.0 miles north of post office at Cashiers, on State Highway 107, 9.8 miles south of East Laport Post Office, 5.5 miles north of Glenville, 2.6 miles north of Onion Falls, on east side of highway, 28 feet from center line of highway, 9.5 feet east of southeast corner of stone head to east end of 30-inch concrete culvert, 13.5 feet east of wood mailbox over culvert, 12 feet north of path up hillside, just south of abandoned sand pit, about 250 feet west of new one-story frame tin topped house on hill above, 150 feet east of Y-road intersection to new house. A standard tablet stamped "LHT 1646 1940" and set in concrete post.

Reference Mark 1: 9.0 feet N 35° E to 15-inch black gum tree.

Reference Mark 2: 21.5 feet S 60° E to 8-inch white oak tree.

Reference Mark 3: 30.0 feet Due South to 15-inch maple tree.

ELEVATION: 2722.764 feet or 829.900 meters (T-2)

LHT 1647 (TVA, 1939; Jackson County, North Carolina)

Located 22.0 miles southeast of courthouse at Sylva, 4.8 miles north of post office at Glenville, on old State Highway 106, on right-of-way, 10.6 miles south of East Laport Post Office, 7.1 miles south of Tuckasee Post Office, 0.4 miles south of intersection of old State Highway 106 with new highway, 2.2 miles northeast of Onion Falls, on right bank of Shoal Creek, on east headwall (upstream side) of concrete bridge over Shoal Creek, 0.7 feet south of north end of headwall, over top of northeast wingwall, 20 feet west of 5-inch birch tree, 60 feet north of road up left bank of Shoal Creek, about 60 feet below new highway on side of mountain, about 200 feet downstream from 20-inch leaning beech tree. A standard tablet stamped "LHT 1647 1940" and set horizontally in headwall of concrete bridge.

Reference Mark 1: 29.5 feet S 60° E to 6-inch black locust tree.

Reference Mark 2: 33.9 feet S 05° W to 5-inch willow tree.

Reference Mark 3: 29.0 feet N 60° W to northwest corner of headwall of bridge.

ELEVATION: 2917.537 feet or 889.267 meters (T-2)

LHT 1648 (TVA, 1939; Jackson County, North Carolina)

Located 23.0 miles southeast of courthouse at Sylva, via State Highway 106, 3.8 miles north of post office at Glenville, via old State Highway 106, 11.6 miles south of East Laport Post Office, 8.1 miles south of Tuckasee Post Office, 1.3 miles west of intersection of old State Highway 106 with new highway, on west side of road, 28 feet from center line of road, 65 feet north of T-road intersection to west, 55 feet north of stone headwall of culvert across road from T-road intersection, 80 feet north of deep earth cut on both sides of highway just south of T-road, 61 feet southwest of projecting rock outcrop on east side of highway, set on bank about 4 feet above surface of road, 11.5 feet west of top of road bank. A standard tablet stamped "LHT 1648 1940" and set in concrete post.

Reference Mark 1: 27.3 feet S 60° W to 15-inch forked locust tree.

Reference Mark 2: 47.0 feet N 20° E to 4-inch maple tree.

Reference Mark 3: 28.0 feet S 55° E to center line of road.

ELEVATION: 3232.024 feet or 989.123 meters (T-2)

LHT 1653 (TVA, 1939; Jackson County, North Carolina)

Located 1.0 miles southeast of post office in Glenville, 4.9 miles north of post office in Cashiers, on State Highway 107 right-of-way, 4.3 miles north of crossroads at Cashiers, about 0.3 miles south of intersection of Glenville road with new highway at point just west of Jenkins Lake, on east side of highway, 27.5 feet from center line of highway, about 300 feet south of Y-intersection of old Highway 107 with new highway, 14 feet east of east end of 18-inch metal culvert, 25 feet southeast of "Winding Road" sign post, 50 feet northeast of yellow arrow road sign across highway, 23.5 feet southwest of double 10-inch white oak tree. A standard tablet stamped "LHT 1653 1940", set in concrete post.

Reference Mark 1: 15.2 feet S 40° E to 8-inch white pine tree.

Reference Mark 2: 15.4 feet Due East to 15-inch white pine tree.

Reference Mark 3: 14.5 feet S 70° W to north end of east headwall at culvert.

ELEVATION: 3510.360 feet or 1069.960 meters (T-2)

LHT 1654 (TVA, 1939; Jackson County, North Carolina)

Located 2.3 miles southeast of post office at Glenville, 3.6 miles north of post office at Cashiers, on State Highway 107 right-of-way, 3.0 miles north of crossroads at Cashiers, on west end of concrete culvert, north end of west headwall, 0.9 feet south of north end of headwall and over northwest wing of wall, 19 feet west of center line of highway, 18.5 feet southeast of fork at branch, 122 feet north of northeast corner of 1-1/2 story frame house painted white (Bryson's residence), 250 feet north of small wood bridge over branch on west side of highway, about 2 feet below surface of highway. A standard tablet stamped "LHT 1654 1940" and set flush and horizontally in concrete headwall of culvert.

Reference Mark 1: 55.5 feet N 55° E to 12-inch forked maple tree.

Reference Mark 2: 35.0 feet N 70° W to 15-inch spruce pine tree.

Reference Mark 3: 74.5 feet S 50° E to 6-inch forked catalpa tree.

ELEVATION: 3704.911 feet or 1129.259 meters (T-2)

LHT 1655 (TVA, 1939; Jackson County, North Carolina)

Located 3.3 miles southeast of post office in Glenville, 2.6 miles north of post office in Cashiers, on State Highway 107 right-of-way, 2.0 miles north of crossroads at Cashiers, on west headwall (downstream side of highway) north end (right bank) of concrete culvert over Hurricane Creek, 1.7 feet south of north end of headwall and over northwest wingwall, 18 feet west of center line highway, 44 feet southwest of Y-intersection of old highway with new highway, about 2 feet below surface of highway. A standard tablet stamped "LHT 1655 1940" and set flush and horizontally in headwall of concrete culvert.

Reference Mark 1: 122.0 feet S 10° W to 30-inch blazed white oak.

Reference Mark 2: 31.0 feet N 20° W to yellow highway "Stop" sign.

Reference Mark 3: 43.0 feet S 55° W to blazed maple tree.

ELEVATION: 3637.952 feet or 1108.850 meters (T-2)

LHT 1656 (TVA, 1939; Jackson County, North Carolina)

Located 4.3 miles southeast of post office in Glenville, 1.6 miles north of post office in Cashiers, on Highway 107, 1.0 miles north of crossroads at Cashiers, on west side of Highway 107, 44.5 feet from center line highway, 0.6 miles north of abandoned quarry on east side of highway down highway side, 200 feet north of "Highway Area Notice" sign at abandoned sand pit, just west of cleared and scraped area on west side of highway, about 60 feet south of north end of this area, 300 feet north of "Highland Country Club" sign on 24 inch white oak tree down highway. A standard tablet stamped "LHT 1656 1940" and set in concrete post.

Reference Mark 1: 18.3 feet N 45° W to 15-inch hickory, blazed.

Reference Mark 2: 12.5 feet S 15° W to 8-inch white pine, blazed.

Reference Mark 3: 12.5 feet S 30° E to 12-inch white oak, blazed.

ELEVATION: 3730.127 feet or 1136.945 meters (T-2)

LHT 1657 (TVA, 1939; Jackson County, North Carolina)

Located 5.3 miles southeast of post office in Glenville, 0.6 miles north of post office in Cashiers, at intersection of U. S. Highway 64 and State Highway 107, on highway right-of-way, on south side of Highway 64, west side of State Highway 107, 116 feet south of center line of highway at crossroad, 92 feet south of west point of triangle shaped fenced in area just southwest of crossroads, 85 feet west of east point of same area, 28.2 feet south of "Highway Area" sign post, 85 feet south of "Stop" sign on south side of Highway 64, west side of Highway 107, about 100 feet north of one-and-one-half story frame house painted yellow, 2.6 feet west of right-of-way concrete post, about 200 feet south of Cashiers Service Station. A standard tablet stamped "LHT 1657 1940" and set in concrete post.

Reference Mark 1: 54.0 feet N 60° W to power pole.

Reference Mark 2: 8.0 feet S 10° W to 5-inch white oak.

Reference Mark 3: 61.8 feet S 65° E to 30-inch white oak.

ELEVATION: 3486.007 feet or 1062.537 meters (T-2)

LHT 1659 (TVA, 1939; Jackson County, North Carolina)

Located 5.1 miles north by southwest of post office in Glenville via Pine Creek road, 9.1 miles northeast of post office in Gneiss, via Walnut Creek road, on Pine Creek road, on R. C. Coggins' property, 2.2 miles upstream from mouth of Pine Creek, on right bank of creek, on east side of road, 20.0 feet west of center line of county road, 90 feet south of intersection of roads, 3.0 feet south of southeast corner of small shed, 23.6 feet northwest of west end of box culvert. A standard tablet stamped "LHT 1659 1940" and set in concrete post.

Reference Mark 1: 40.0 feet East to 4-inch white pine across road.

Reference Mark 2: 9.5 feet Southwest to 4-inch white pine across road.

Reference Mark 3: 3.0 feet North to southeast corner of small shed.

ELEVATION: 3555.150 feet or 1083.612 meters (T-2)

LHT 1661 (TVA, 1939; Jackson County, North Carolina)

Located 7.3 miles north by southwest of post office in Glenville, via Pine Creek road, 6.9 miles northeast of post office in Gneiss, via Walnut Creek road, on Pine Creek road, approximately 80 feet north of new road location, 4.5 miles upstream from mouth of Pine Creek, 1.0 miles east of Walnut Gap, 23.2 feet south center line of road at south end of sharp curve, 28.0 feet east of center line of county road at intersection of Y-road south, 9.5 feet east of 30-inch oak stump painted BM. A standard tablet stamped "LHT 1661 1940" and set in concrete post.

Reference Mark 1: 36.5 feet Northeast to 15-inch white pine tree.

Reference Mark 2: 33.5 feet Southwest to 20-inch hickory nut tree.

Reference Mark 3: 51.6 feet Northwest to 20-inch chestnut tree.

ELEVATION: 3753.651 feet or 1144.115 meters (T-2)

LHT 1662 (TVA, 1939; Macon County, North Carolina)

Located 8.3 miles north by southwest of post office in Glenville, via Pine Creek road, 5.9 miles northeast of post office in Gneiss, on Walnut Creek road, 5.6 miles west of mouth of Pine Creek, just west of Walnut Gap, 39.0 feet south of center line of road, 68.5 feet south of corner of rail fence in gap at edge of county road, 45.0 feet west of pole gate near gap, 39.0 feet west of 50-inch chestnut tree in fence row. A standard tablet stamped "LHT 1662 1940" and set nearly flush with ground in concrete post.

Reference Mark 1: 5.6 feet South to 5-inch hickory nut tree.

Reference Mark 2: 2.4 feet Northeast to 12-inch poplar tree.

Reference Mark 3: 9.4 feet North to 8-inch black locust tree.

ELEVATION: 4091.340 feet or 1247.043 meters (T-2)

LHT 1663 (TVA, 1939; Macon County, North Carolina)

Located 5.0 miles northeast of post office in Gneiss, 9.2 miles north by southwest of post office in Glenville, via Pine Creek road, about 13.0 miles southeast of Franklin, on Walnut Gap road, W. W. Hedden's property, 0.8 miles west of Walnut Gap, 4.9 miles northeast of U. S. Highway 64, 22.7 feet north of center line county road, 31.0 feet north of center line county road at intersection of Y-road to east, 18.9 feet north of W. W. Hedden's large mailbox, just east of sharp turn in road to north and down mountain side. A standard tablet stamped "LHT 1663 1940" and set in concrete post nearly flush with ground.

Reference Mark 1: 21.3 feet East to 30-inch hickory nut tree.

Reference Mark 2: 17.2 feet West to 5-inch poplar tree.

Reference Mark 3: 50.6 feet South to 6-inch triple buckeye trees.

ELEVATION: 3585.623 feet or 1092.900 meters (T-2)

LHT 1664 (TVA, 1939; Macon County, North Carolina)

Located 4.0 miles northeast of post office in Gneiss, 10.2 miles north

by southwest of post office in Glenville, via Pine Creek road, about 12.0 miles southeast by northeast of Franklin, on Walnut Gap road, on property of J. M. Hedden, 1.8 miles west of Walnut Gap, 3.9 miles northeast of U. S. Highway 64, 1.3 miles northeast of Walnut Creek School, 22.0 feet north of center line Walnut Creek road and county road, 13.0 feet southwest of center line of T-road to northwest, 37.0 feet west of center line county road at intersection in southeast corner of small field, 150 feet southeast of lone 8-inch apple tree. A standard tablet stamped "LHT 1664 1940" and set in concrete post.

Reference Mark 1: 29.5 feet Southeast to 3-inch black oak tree.  
Reference Mark 2: 46.0 feet North to clump of 3-inch peach trees.  
Reference Mark 3: 22.0 feet Southeast to center line of county road.

ELEVATION: 3080.742 feet or 939.012 meters (T-2)

**LHT 1678** (TVA, 1939; Jackson County, North Carolina)

Located 4.1 miles southeast of Tuckasee Post Office, 19.1 miles southeast of courthouse at Sylva, 11.2 miles southeast of post office at Cullowhee, on State Highway 281, on John M. Messer's property, on south side of highway, 65 feet from center line of highway, set in small gap of ridge on east side of gap along woods line, about 0.3 miles south of high rock mountain slope, 100 feet north of hilltop on south side of road, 60 feet west of 36-inch white oak tree along east edge of small cleared area. A standard tablet stamped "LHT 1678 1940" and set in concrete monument.

Reference Mark 1: 32.6 feet N 20° E to 15-inch walnut tree.  
Reference Mark 2: 22.3 feet S 15° W to 8-inch poplar tree.  
Reference Mark 3: 7.7 feet S 70° E to 3-inch dogwood tree.

ELEVATION: 2532.741 feet or 771.961 meters (T-2)

**LHT 1679** (TVA, 1939; Jackson County, North Carolina)

Located 20.2 miles southeast of courthouse at Sylva, 12.3 miles southeast of post office at Cullowhee, on State Highway 281, property of Betus Ashe, 8.7 miles southeast of East Iaport, 5.2 miles southeast of Junction of State Highway 281 with State Highway 106 at Tuckasee, on north side of highway, 46 feet from center line highway, 13 feet east center line small branch, 28 feet north of north end of 24-inch metal culvert, 24.5 feet northeast of east gate post, 3 feet south of pole fence, 11 feet east of corner of fence at branch, 23 feet east of trail up branch. A standard tablet stamped "LHT 1679 1940" and set in concrete monument.

Reference Mark 1: 5.0 feet N 50° E to 18-inch white oak tree.  
Reference Mark 2: 10.8 feet Due West to 10-inch maple, corner fence.  
Reference Mark 3: 32.0 feet N 55° W to 15-inch poplar tree at spring.

ELEVATION: 2806.280 feet or 855.356 meters (T-2)

**IR 722** (TVA, 1941; Jackson County, North Carolina)

Located about 5.7 miles northwest of Lake Toxaway. To reach from depot in Lake Toxaway drive north on State Highway 281 for 9.6 miles, turn left across bridge over Tuckasee River and go 0.9 miles, turn left and go 0.6 miles to T-woods road. Station is about 90 feet west of main road and on south edge of T-road, set under clump of small maple trees. A 1- by 1-inch angle iron stamped "TVA IR 722".

Reference Mark 1: 3.7 feet South to 6-inch maple.  
Reference Mark 2: 12.77 feet N 70° W to 18-inch stump.  
Reference Mark 3: 14.42 feet N 45° E to 24-inch oak stump

GEODETIC POSITION: Lat. = 35°11'22.54"; Long. = 83°00'30.13" (T-4)  
GRID POSITION (N. C.): X = 802,713.3; Y = 548,090.6 (T-4)  
ELEVATION: 3890 feet (T-5)

**IR 723** (TVA, 1941; Jackson County, North Carolina)

Located about 6.4 miles northwest of Lake Toxaway. To reach from depot at Lake Toxaway follow State Highway 281 north for 9.6 miles, turn left and cross bridge over Tuckasee River, continue left on "Y", immediately after crossing bridge and go 0.9 miles, take right road of "Y" and drive 0.6 miles to another "Y", leave car and walk southwest along deserted road up hill 600 feet to highest point on knoll in field. Point is about 10 feet north of fence. A 1- by 1-inch angle iron stamped "TVA IR 723".

Reference Mark 1: 10.25 feet S 35° E to fence post.  
Reference Mark 2: 30.15 feet East to fence post.  
Reference Mark 3: 29.70 feet S 40° W to fence post.

GRID POSITION (N. C.): X = 801,417.2; Y = 550,343.7 (T-4)  
ELEVATION: 3873 feet (T-5)

**IR 785** (TVA, 1941; Jackson County, North Carolina)

Located 9.0 miles northwest of Lake Toxaway. To reach from depot in Lake Toxaway, drive north on State Highway 281 for 14.8 miles, turn right on T-road into woods and drive 0.3 miles to gate leading into pasture, leave car and walk northeast along fence and woods line up ridge 600 feet. Point is about 6 feet south of fence under 24-inch oak. A round 1/2-inch steel bolt stamped "TVA IR 785".

Reference Mark 1: 5.13 feet S 80° W to 24-inch oak.  
Reference Mark 2: 19.97 feet N 40° E to 2-inch oak.  
Reference Mark 3: 42.0 feet East to twin oak.

GEODETIC POSITION: Lat. = 35°14'28.84"; Long. = 83°00'21.44" (T-4)  
GRID POSITION (N. C.): X = 804,194.1; Y = 566,879.1 (T-4)  
ELEVATION: 3751 feet (T-5)

**IR 902** (TVA, 1939; Jackson County, North Carolina)

Located 15.4 miles northwest of U. S. Post Office in Lake Toxaway, 5.0 miles northwest of U. S. Post Office at Wolf Mountain, on State Highway 281, on property of A. L. Brown, on Neddie Mountain at Neddie Mountain Gap, on east side of highway, 25 feet from center line of highway, 31 feet north of center line of T-road, to east of west end of A. L. Brown's residence, 2 feet west of house, 8.3 feet north of southwest corner of house, just north of window in end of house, 34 feet east of three mailboxes across highway, 70 feet north of entrance to Neddie Mountain churchhouse. A standard tablet stamped "IR 902 1941" and set in concrete monument.

Reference Mark 1: 9.0 feet to 24-inch white oak tree.  
Reference Mark 2: 16.0 feet to northwest corner of house.  
Reference Mark 3: 8.3 feet to southwest corner of house.

ELEVATION: 3691.266 feet or 1125.100 meters (T-2)

**IR 903** (TVA, 1939; Jackson County, North Carolina)

Located 14.1 miles northwest of U. S. Post Office in Lake Toxaway, 3.7 miles northwest of U. S. Post Office in Wolf Mountain, via State Highway 281, 2.3 miles northwest of Wolf Mountain Church, on west side of highway, 30 feet from center line of highway, in gap of small ridge just west of T-road intersection to east, east side of rail fence, 6 feet north of pole gate in gap,

27.5 feet south of corner of rail fence, 36 feet southwest of pole gate, 62 feet southwest of wood mailbox, 500 feet south of one-story frame house, unpainted, on north slope of ridge. A standard tablet stamped "IR 903 1941" and set in concrete monument.

Reference Mark 1: 6.0 feet S 30° E to north gate post.  
Reference Mark 2: 72.5 feet N 85° E to 5-inch black pine tree across highway.  
Reference Mark 3: 30.5 feet N 35° W to small apple tree at fence corner.

ELEVATION: 3479.088 feet or 1060.428 meters (T-2)

**IR 904** (TVA, 1939; Jackson County, North Carolina)

Located 12.9 miles northwest of U. S. Post Office in Lake Toxaway, 2.5 miles northwest of U. S. Post Office in Wolf Mountain, on State Highway 281, 1.1 miles northwest of Wolf Mountain Church, on property of Mary Woods Coward, on west side of highway, 32 feet from center line of highway, at Y-road intersection to Pioneer Lodge, 500 feet southeast of lodge house, 47.5 feet south of east gate post and Pioneer Lodge sign, 50 feet south of J. G. Parker's mailbox, 1.7 feet east of pole fence at junction of pole fence from west, 125 feet east of small one-story frame unpainted house, 25.5 feet north of small gate. A standard tablet stamped "IR 904 1941" and set in concrete monument.

Reference Mark 1: 45.0 feet S 65° E to 10-inch maple tree.  
Reference Mark 2: 7.7 feet S 15° W to 10-inch apple in corner fence.  
Reference Mark 3: 49.0 feet N 15° W to corner post of woven wire fence.

ELEVATION: 3077.546 feet or 938.038 meters (T-2)

**IR 935** (TVA, 1941; Transylvania County, North Carolina)

Located 6.5 miles east of Cashiers, 1 mile southwest of Sapphire, 300 feet northwest of gap, 25 feet south center line White Pine road. To reach from Roan Mountain High School, drive west on U. S. Highway 64 13.3 miles to Oakland, turn left 2.4 miles to Sapphire, then bear left 1.25 miles to station. A 1- by 1-inch angle iron stamped "IR 935 1941".

Reference Mark 1: 19.21 feet S 03° E to 8-inch chestnut.  
Reference Mark 2: 14.23 feet S 43° W to 6-inch locust.  
Reference Mark 3: 11.92 feet S 63° W to 2-inch mountain oak.

GRID POSITION (N. C.): X = 800,448.1; Y = 513,146.7 (T-4)  
ELEVATION: 3514 feet (T-5)

**M 55** (USCGS, 1934; Jackson County, North Carolina)

Located 2.5 miles northwest along U. S. Highway 64 from Cashier, 2.2 miles east of the Jackson-Macon County line, about 100 yards east of a small waterfall and culvert, at the middle of a horseshoe curve, about 2 yards west of a "Winding Road" sign on the north side of the highway and about 10 yards north of the center line of the highway. A standard tablet stamped "3731.298 M 55 1934" and set in concrete monument, projecting about 6 inches above ground. Note: Searched for but not recovered, July, 1946.

ELEVATION: 3731.049 feet or 1137.226 meters (C-2)

**MS 758** (TVA, 1942; Jackson County, North Carolina)

Located in the central portion of Quadrangle 176 northeast. To reach from post office in Glenville, drive north on State Highway 106 for 0.1 miles to road fork, turn right and go 1.15 miles to road fork, here turn right on Big Ridge Road and drive 4.95 miles to a road fork, here turn right and drive 0.15 miles to road fork at home of John D. Davis, turn right, follow field road, passing four gates and two houses, drive 1.4 miles, coming to top of cleared bald top. Here on highest top of ridge is station. A 1- by 1-inch angle iron stamped "MS 758".

GRID POSITION (N. C.): X = 782,691.8; Y = 553,557.8 (T-4)  
ELEVATION: 4507 feet (T-5)

**MS 769** (TVA, 1942; Jackson County, North Carolina)

Located on left bank of west fork of Tuckasee River, in northeast corner of Quadrangle 176 NW. To reach from Tuckasee Post Office, at junction of State Highways 107 and 281, drive south on State Highway 107 for 1.5 miles to curve and T-road right, park car and walk S 18° E along telephone company line, crossing west fork Tuckasee River, climbing along phone line a distance in all of 1128 feet to phone pole and station. A 1- by 1-inch angle iron stamped "MS 769" driven on north side of telephone pole on steep slope.

Reference Mark 1: 1.64 feet S 35° E to tack and washer in telephone pole.  
Reference Mark 2: 5.92 feet S 40° W to tack and washer in 6-inch oak stump.  
Reference Mark 3: 9.47 feet N 12° W to tack and washer in 8-inch oak stump.

GEODETIC POSITION: Lat. = 35°14'45.12"; Long. = 83°07'38.66" (T-4)  
GRID POSITION (N. C.): X = 768,029.5; Y = 570,009.4 (T-4)  
ELEVATION: 2380 feet (T-5)

**MS 772** (TVA, 1942; Jackson County, North Carolina)

Located in northeast corner of Quadrangle 176 NW. To reach from new concrete bridge at Cullowhee, drive through college grounds taking new river road up the river for 4.7 miles to T-road right at bridge across river, turn right and cross river bridge, driving straight across river bridge for 0.5 miles to T-farm road left, turn left and drive up mountain 3.9 miles, parking car at old log stable in clearing, walk south 200 feet to south corner of garden fence, from fence corner walk S 35° E for 388 feet to top of ridge and walk S 66° W 78 feet to station on east end of top of wooded ridge. A 1- by 1-inch angle iron stamped "MS 772".

Reference Mark 1: 15.88 feet N 17° W to tack and washer in 12-inch oak.  
Reference Mark 2: 6.24 feet S 80° E to tack and washer in 10-inch sourwood.  
Reference Mark 3: 15.52 feet S 33° W to tack and washer in 30-inch white oak.

GRID POSITION (N. C.): X = 763,098.8; Y = 571,425.5 (T-4)  
ELEVATION: 3426 feet (T-5)

**MS 777** (TVA, 1942; Jackson County, North Carolina)

Located in north corner of central portion of Quadrangle 176 NE. To reach from Glenville, drive northeast from Erwins Cafe on county road for 5.1 miles to Y-road intersection at church, turn right and drive south 0.65 miles to Y-road intersection, turn left and drive 1.45 miles to bridge, park car and walk along road east 0.5 miles to stable in large clearing, proceed back of stable along foot path east crossing creek and continue to gap in fence at edge

of clearing, in all approximately 1200 feet, walk north from gap 115 feet to 8-inch locust in clearing, 2 feet east of locust. A 2-inch circular hickory hub called "MS 777".

Reference Mark 1: 32.08 feet N 60° E to 3-inch hickory with nail and washer.  
Reference Mark 2: 30.83 feet S 17° W to nail and washer in 6-inch locust.  
Reference Mark 3: 2.10 feet S 80° W to nail and washer in 8-inch locust.

GRID POSITION (N. C.): X = 787,883.9; Y = 553,473.1 (T-4)  
ELEVATION: 3824 feet (T-5)

**MS 779** (TVA, 1942; Jackson County, North Carolina)

Located in the central portion of Quadrangle 176 NE. To reach from Glensville, drive northeast from Erwins Cafe on county road for 5.1 miles to Y-road at church, turn right and drive south for 0.65 miles to Y-road intersection, turn left and drive east for 1.45 miles to bridge, park car and walk east along road for 0.5 miles to stable in large clearing, walk behind stable following foot path east, crossing branch and continuing along path down bluff crossing creek at old ford and climbing up to hairpin curve in road, in all approximately 1/2 miles, turn right and walk south up road for 1800 feet to sharp curve in main road at Y-road south, turn left onto Y-road south, walking straight up hollow, following main trail to top of divide, approximately 1.4 miles, walk southeast, crossing deep hollow approximately 700 feet, coming to small clearing and large old building with apple trees around it, turn 90° to right and climb southwest up trail leaving west corner of clearing, bearing to left up ridge for 600 feet, coming to middle of open spot in woods where woods road breaks to east around ridge nose. Here 3 feet south of road is station. A 1- by 1-inch angle iron stamped "MS 779".

Reference Mark 1: 33.29 feet S 25° W to nail and washer in 6-inch sassafras.  
Reference Mark 2: 18.00 feet N 65° E to nail and washer in 10-inch poplar.  
Reference Mark 3: 24.91 feet West to nail and washer in 6-inch sassafras.

ELEVATION: 4033 feet (T-5)

**N 55** (USC&GS, 1934; Jackson County, North Carolina)

Located about 0.7 miles west along U. S. Highway 64 from Cashiers, about 13 yards east of the center line of a dirt road leading north, about 9 yards north of the center line of the highway, and in an angle formed by a rail fence. A standard tablet stamped "3524.153 N 55 1934" and set in the top of a concrete post, projecting about 4 inches above ground.

ELEVATION: 3523.894 feet or 1074.089 meters (C-2)

**P 55** (USC&GS, 1934; Jackson County, North Carolina)

Located about 1.1 miles east along U. S. Highway 64 from Cashiers, at a curve at the east end of a mile long tangent, at top of a grad to east, about 9 yards west of pole on the south side of highway, about 10 yards north of center line of highway, and about 2 yards northwest of 20-inch stump, about 3 inches higher than the ground. A standard tablet stamped "3517.076 P 55 1934" and set in top of concrete post, projecting about 2 inches above ground.

ELEVATION: 3516.814 feet or 1071.927 meters (C-2)

**Q 55** (USC&GS, 1934; Jackson County, North Carolina)

Located about 3.3 miles east along U. S. Highway 64 from Cashiers, about 100 yards east of a 10-foot cut, about 42 yards west of the center line of a crossroad, at the east end of a pine grove, across the highway to the south from an old sand pit, and about 9 yards south of the center line of the highway. A standard tablet stamped "3176.992 Q 55 1934" and set in the top of a concrete post, projecting about 2 inches above ground.

ELEVATION: 3176.716 feet or 968.265 meters (C-2)

**R 55** (USC&GS, 1934; Jackson County, North Carolina)

Located about 5.5 miles east along U. S. Highway 64 from Cashiers, about 1.7 miles west of the Jackson-Transylvania County line, about 100 yards west of a lake, about 30 yards east of a corrugated iron culvert at the crossing of an old highway, at the east end of a 12-foot fill, at the west end of a 15-foot cut, and about 12 yards north of the center line of the highway. A standard tablet stamped "3143.202 R 55 1934" and set in the top of a concrete post projecting about 4 inches above ground.

ELEVATION: 3142.917 feet or 957.963 meters (C-2)

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

Located about 1 mile south of Highlands, and about 13 miles southwest of Franklin. To reach from Highlands, drive south on State Highway 128 from Main Street a distance of 0.15 miles to a road fork, turn left and follow main road 0.4 miles to a road fork, turn left and follow main road 0.55 miles to road fork, turn left and follow mountain road 0.6 miles to top of mountain and station (road very rough, advisable to leave car). Station is on highest point of mountain. A capped iron pipe of U. S. Forest Service, stamped "USGS SATULAH 1934" and set in concrete block 20- by 20-inch, on top of rocky ledge, 20 feet south of a fire tower.

Reference mark 1 is a drill hole in rock ledge, 11.15 feet from station in geodetic azimuth 279°11'.  
Reference mark 2 is a drill hole in rock ledge, 12.3 feet from station in geodetic azimuth 343°44'.  
Reference mark 3 is a drill hole in rock ledge, 7.6 feet from station in geodetic azimuth 49°19'.

GEODETIC POSITION: Lat. = 35°02'10.073"; Long. = 83°11'32.522" (G-3)

To Station	Azimuth	Back Azimuth	Distance	Meters	Miles
Rabun 2	51°26'00.7"	231°22'18.6"		4.099095	7.8
Scaly	90 48 07.6	270 44 54.6		3.930329	5.3
Hogback Mtn.	167 52 46.8	347 51 41.3		4.137966	8.5

GRID POSITION (GA. WEST): X = 791,658.0; Y = 1,833,486.5 (G-3)

GRID POSITION (N. C.): X = 745,427.8; Y = 494,558.7 (G-3)

ELEVATION: 4543 feet (T-5)

**SN 375** (TVA, 1939; Macon County, North Carolina)

Located 1.1 mile west along State Highway 106 from post office in Highlands, 14.8 miles northeast of post office in Dillard, Georgia, on property of Highlands Country Club, 33 feet south of center line of highway, 11 feet south of wire fence, 55 feet west of a branch, 60 feet southwest from stone steps. A standard tablet stamped "SN 375 1941" and set in concrete monument.

Reference Mark 1: 16.2 feet Northeast to light pole.

Reference Mark 2: 10.5 feet Southwest to 14-inch white oak tree.  
Reference Mark 3: 11 feet East to 7-inch black oak tree.  
ELEVATION: 3659.537 feet or 1115.429 meters (T-2)

**SN 376** (TVA, 1939; Macon County, North Carolina)

Located 2.1 miles west along U. S. Highway 106 from post office in Highlands, 13.8 miles northeast of post office in Dillard, Georgia, on A. C. Holt's property, 36 feet south of center line of highway, 45 feet southeast of center line intersection of highway and T-road south, 90 feet west from corner of barbed wire fence, 15 feet 6 inches southwest of 12-inch hickory tree, 14 feet northeast from 8-inch white oak tree, 7 feet north from 9-inch white oak tree. A standard tablet stamped "SN 376 1939" and set in concrete monument.

Reference Mark 1: 15.5 feet Northeast to 12-inch hickory tree.  
Reference Mark 2: 14 feet Southwest to 8-inch white oak tree.  
Reference Mark 3: 7 feet South to 9-inch white oak tree.  
ELEVATION: 3699.661 feet or 1127.659 meters (T-2)

**SN 377** (TVA, 1939; Macon County, North Carolina)

Located 3.3 miles southwest along State Highway 106 from post office in Highlands, 12.6 miles northeast of post office in Dillard, Georgia, 66 feet south of center line of highway, opposite an 18-foot road cut, 35 feet west of old woods road, 125 feet southeast of center line intersection of highway and private road northwest, 21.7 feet east of 36-inch white oak, 8.4 feet west of 6-inch white oak. A standard tablet stamped "SN 377 1939" and set in concrete monument.

Reference Mark 1: 21.7 feet West to 36-inch white oak tree.  
Reference Mark 2: 8.4 feet East to 6-inch white oak tree.  
ELEVATION: 3880.786 feet or 1182.866 meters (T-2)

**SN 389** (TVA, 1941; Macon County, North Carolina)

Located 1.1 miles east from Highlands, on Bullpen Road, 16 feet north of center line of road, 22 feet from center line of road intersection leading to Highland Silver Fox farm, on top of Blue Ridge Mountain, directly north from small apple orchard which is on south side Blugen road, 30 feet north hedge which is on south side of road. A standard tablet stamped "SN 389 1941" and set in concrete post.

Reference Mark 1: 6.55 feet S 85° W to TVA washer in 12-inch white pine.  
Reference Mark 2: 46.05 feet N 25° W to TVA washer in 12-inch white oak.

Reference Mark 3: 34.34 feet N 10° E to TVA mark on stone.  
Reference Mark 4: 16.50 feet N 60° E to washer in telephone pole.  
ELEVATION: 3993.089 feet or 1217.096 meters (T-2)

**SN 390** (TVA, 1941; Macon County, North Carolina)

Located 1.7 miles east of Highlands, on Bullpen road, on northeast side road 30 feet from center line, 65 feet north of where branch crosses road, 100 feet south of rock quarry about half way up mountain. A standard tablet stamped "SN 390 1941" and set in concrete post.

Reference Mark 1: 5.24 feet S 55° E to TVA washer in 8-inch mount-ain birch.  
Reference Mark 2: 69.45 feet N 60° W to TVA washer in 6-inch pine.  
Reference Mark 3: 65.30 feet N 30° W to TVA washer in 20-inch locust

ELEVATION: 3455.029 feet or 1053.095 meters (T-2)

**SN 391** (TVA, 1941; Macon County, North Carolina)

Located 3.0 miles east of Highlands, 12 miles west of Cashiers, on Bull Pen Road, 0.5 miles west of where Edward's Creek crosses Bull Pen road, 55 feet south of center line of road, at foot of mountain. A standard tablet stamped "SN 391 1941" and set in concrete post.

Reference Mark 1: 36.90 feet N 55° W to nail in 10-inch twin maple.  
Reference Mark 2: 23.38 feet South to nail in 30-inch black oak.  
Reference Mark 3: 28.85 feet S 45° E to nail in 15-inch twin black oak.

ELEVATION: 3003.350 feet or 915.423 meters (T-2)

**SN 392** (TVA, 1941; Macon County, North Carolina)

Located 4.0 miles east from Highlands, on Bull Pen Road, 1.0 miles west of Bull Pen and Cashiers road intersection, at southeast corner of woods, 0.2 miles west of Horse Cove road intersection, 24 feet north of center line of road, 3 feet south of fence line. A standard tablet stamped "SN 392 1941" and set in concrete post.

Reference Mark 1: 18.10 feet S 85° W to TVA washer in 32-inch white oak on north side of road.  
Reference Mark 2: 42.0 feet S 15° E to TVA washer in fence corner post.

Reference Mark 3: 6.52 feet S 70° E to TVA washer in 10-inch white oak in fence line in open field.  
ELEVATION: 2920.073 feet or 890.040 meters (T-2)

**SN 393** (TVA, 1941; Macon County, North Carolina)

Located 5.0 miles east of Highlands, 10.0 miles west of Cashiers Valley, at intersection of Bull Pen and Cashiers road, west of road intersections, 35 feet northeast of Cane Creek, 3.0 miles west of Whiteside, 60 feet northwest of road intersection. A standard tablet stamped "SN 393 1941" and set in concrete post.

Reference Mark 1: 9.20 feet S 10° E to TVA washer in 12-inch pine.  
Reference Mark 2: 13.15 feet N 10° E to TVA washer in 16-inch white oak.

Reference Mark 3: 36.56 feet S 80° E to TVA washer in sign post.  
ELEVATION: 2898.485 feet or 883.460 meters (T-2)

**SN 394** (TVA, 1941; Macon County, North Carolina)

Located on Bull Pen Road, 7.0 miles west of intersection of State Highway 107 and Bull Pen Road, about 6 miles southeast of Highlands, 0.5 miles north of road leading to Ammons Camp Ground, 0.3 miles north of Glade road, 40 feet east of center line of road, 12 feet north of center line of old field road. A standard tablet stamped "SN 394 1941" and set in top of concrete post.

Reference Mark 1: 21.55 feet N 10° W to TVA washer in 34-inch chestnut oak.  
Reference Mark 2: 14.57 feet S 10° W to TVA washer in 20-inch black oak.

Reference Mark 3: 67.25 feet S 65° W to TVA washer in 26-inch chestnut oak.

ELEVATION: 3133.140 feet or 954.983 meters (T-2)

**SN 395** (TVA, 1941; Macon County, North Carolina)

Located on Bull Pen Road, 6.6 miles west from Highway 107 and Bull Pen Road intersection, 1.3 miles from Chatooga bridge on Bull Pen Road, on south-west side road, 28 feet from center line, 0.2 miles west from where Ammons Branch crosses road, on outside of curve about 3 feet in elevation above road. A standard tablet stamped "SN 395 1941" and set in top of concrete post.

Reference Mark 1: 10.42 feet South to TVA washer in 16-inch chestnut oak.

Reference Mark 2: 17.46 feet S 20° E to TVA washer in 12-inch chestnut oak.

Reference Mark 3: 58.20 feet N 35° W to TVA washer in 30-inch pine stump.

ELEVATION: 2828.229 feet or 862.046 meters (T-2)

**SN 396** (TVA, 1941; Macon County, North Carolina)

Located 5.3 miles west on Bull Pen Road from intersection with State Highway 107, 3.3 miles west of intersection of Brushy Mountain road with Bull Pen Road, on right bank of Chatooga River, about 60 feet north of center line of Bull Pen Road, 25 feet east of small cove, 45 feet east of 40-inch poplar, east of small side road running north up right bank of river. A standard tablet stamped "SN 396 1941" and set in top of concrete monument.

Reference Mark 1: 24.20 feet N 45° W to + mark on large stone.

Reference Mark 2: 26.40 feet N 70° W to + mark on large stone.

Reference Mark 3: 3.80 feet S 10° W to + mark on large stone.

Reference Mark 4: 54.65 feet S 05° E to northwest corner of bridge over Chatooga River.

ELEVATION: 2413.115 feet or 735.519 meters (T-2)

**SN 397** (TVA, 1941; Jackson County, North Carolina)

Located 11.0 miles southwest of Cashiers, via State Highway 107 and Bull Pen Road intersects highway, 2.0 miles west of Brushy Mountain road, on Bull Pen Road, 36 feet north of center line of road, 70 feet northeast of center line of bridge over Scotsman Creek. A standard tablet stamped "SN 397 1941" and set in concrete post.

Reference Mark 1: 14.85 feet N 70° W to TVA washer in 28-inch white oak.

Reference Mark 2: 17.0 feet S 85° E to TVA washer in 5-inch white oak.

Reference Mark 3: 80.35 feet S 80° W to TVA washer in 30-inch dead pine.

ELEVATION: 2641.927 feet or 805.261 meters (T-2)

**SN 398** (TVA, 1941; Jackson County, North Carolina)

Located 10.0 miles southwest of Cashiers, on State Highway 107 and Bull Pen Road, 1 mile west of Brushy Mountain Road, on Bull Pen Road, north side of road, 20 feet from center line, 0.4 miles west of where Fowler Creek crosses Bull Pen Road. A standard tablet stamped "SN 398 1941", set in concrete monument.

Reference Mark 1: 26.35 feet S 75° W to TVA washer in 10-inch white oak.

Reference Mark 2: 13.10 feet N 30° W to TVA washer in 12-inch pine.

Reference Mark 3: 21.05 feet N 60° E to TVA washer in 8-inch pine stump.

ELEVATION: 2666.550 feet or 812.766 meters (T-2)

**SN 399** (TVA, 1941; Jackson County, North Carolina)

Located 2.05 miles west from where Bull Pen Road intersects State Highway 107, 9 miles south from Cashiers, on Bull Pen Road, at intersection of Brushy Mountain Road and Bull Pen Road, 12 feet east of southeast corner of shed, 65 feet northwest of northwest corner of one-story frame box house, 14 feet north of Bull Pen Road (center line), 21 feet west of center line of Brushy Mountain road. A standard tablet stamped "SN 399 1941" and set in the top of concrete post.

Reference Mark 1: 37.65 feet South to TVA washer in 14-inch red oak.

Reference Mark 2: 12.20 feet North to TVA washer in 10-inch chestnut.

Reference Mark 3: 34.30 feet West to TVA washer in 8-inch white oak.

ELEVATION: 2731.920 feet or 832.691 meters (T-2)

**SN 400** (TVA, 1941; Jackson County, North Carolina)

Located 8.0 miles southwest of Cashiers, via State Highway 107 and Bull Pen Road, on Bull Pen Road, 0.4 miles southwest of top of Chatooga Ridge, on southeast side road in sharp curve, 20 feet southeast of center line of road. A standard tablet stamped "SN 400 1941" and set in concrete post.

Reference Mark 1: 42.65 feet S 10° W to TVA washer in 8-inch red oak.

Reference Mark 2: 31.95 feet N 35° W to TVA washer in 10-inch maple.

Reference Mark 3: 49.55 feet N 10° E to TVA washer in 10-inch white oak.

ELEVATION: 3014.636 feet or 918.863 meters (T-2)

**SN 401** (TVA, 1941; Jackson County, North Carolina)

Located 7.0 miles southwest of Cashiers Valley Highways 64 and 107 intersection, 6.3 miles south of Cashiers Post Office, on State Highway 107, on east side of highway, 24.0 feet from center line, 4 feet west of angle in fence line, 65 feet southeast of Bull Pen Road intersection, 100 feet southeast of one-story frame box house. A standard tablet stamped "SN 401 1941" and set in concrete post.

Reference Mark 1: 27.80 feet S 25° E to washer in white oak stump.

Reference Mark 2: 13.72 feet N 40° W to + mark on east end of stone culvert.

Reference Mark 3: 59.40 feet N 55° W to TVA washer in sign post.

ELEVATION: 3037.560 feet or 925.850 meters (T-2)

**SN 402** (TVA, 1941; Jackson County, North Carolina)

Located 5.1 miles south from post office in Cashiers, on Highway 107, 22 feet west center line highway, in open field, about 35 feet north from edge of woods on north end of about a 15-foot cut, 8 feet south of west end of small culvert. A standard tablet stamped "SN 402 1941" and set in concrete post.

Reference Mark 1: 49.20 feet S 05° E to TVA washer in 14-inch locust.

Reference Mark 2: 53.0 feet S 84° E to TVA washer in 8-inch pine.

Reference Mark 3: 64.43 feet N 75° E to TVA washer in 10-inch pine.

ELEVATION: 3427.716 feet or 1044.770 meters (T-2)

**SN 404** (TVA, 1941; Jackson County, North Carolina)

Located 3.8 miles south from Cashiers Post Office, on State Highway 107, 55 feet northwest center line of highway, at south end of gravel pit, at toe of long grade. Standard tablet stamped "SN 404 1941" set in concrete post.

Reference Mark 1: 12.95 feet S 15° E to TVA washer in 24-inch white oak stump.

Reference Mark 2: 54.10 feet N 20° W to TVA washer in 12-inch white oak tree.

Reference Mark 3: 112.70 feet S 75° E to TVA washer in 30-inch dead pine.

ELEVATION: 3205.407 feet or 977.010 meters (T-2)

**SN 405** (TVA, 1941; Jackson County, North Carolina)

Located 3.1 miles south on State Highway 107 from Cashiers Post Office, 35 feet west center line of highway, directly west of gravel pit on top of long grade. A standard tablet stamped "SN 405 1941" and set in top of concrete post.

Reference Mark 1: 25.40 feet S 15° W to washer in 8-inch red oak.

Reference Mark 2: 8.56 feet S 70° W to washer in 10-inch red oak.

Reference Mark 3: 26.28 feet N 10° E to washer in 6-inch white oak.

ELEVATION: 3483.238 feet or 1061.693 meters (T-2)

**SN 406** (TVA, 1941; Jackson County, North Carolina)

Located 2.1 miles south of Cashiers Post Office, on State Highway 107, at highway and dirt road intersection in edge of woods, 35 feet southeast of center line of highway. A standard tablet stamped "SN 406 1941" and set in concrete post.

Reference Mark 1: 50.10 feet S 50° E to washer in 18-inch pine.

Reference Mark 2: 55.0 feet S 31° W to washer in 20-inch white oak.

Reference Mark 3: 61.35 feet S 85° W to washer in 26-inch pine.

ELEVATION: 3467.611 feet or 1056.930 meters (T-2)

**SN 407** (TVA, 1941; Jackson County, North Carolina)

Located 1.7 miles south of State Highway 107, U. S. Highway 64 intersection, 1.1 miles south of Cashiers Post Office, on State Highway 107, northwest of highway, 2 feet northwest of fence line, 160.0 feet north of gravel road entering golf course. A standard tablet stamped "SN 407 1941" and set in concrete post.

Reference Mark 1: 2.85 feet North to TVA washer in 12-inch maple.

Reference Mark 2: 22.84 feet S 25° E to TVA washer in 18-inch spruce.

Reference Mark 3: 23.76 feet S 62° W to TVA washer in center line of highway.

ELEVATION: 3431.492 feet or 1045.921 meters (T-2)

**SN 408** (TVA, 1941; Jackson County, North Carolina)

Located 1.0 miles south of intersection of U. S. Highway 64 and State Highway 107, 0.4 miles south of Cashiers Post Office, 21.0 feet from center line of gravel road, 35.0 feet from center line of highway. A standard tablet stamped "SN 408 1941" and set in concrete post.

Reference Mark 1: 2.80 feet N 05° W to TVA washer in telephone pole.

Reference Mark 2: 5.11 feet S 45° W to TVA washer in power pole.

Reference Mark 3: 76.50 feet N 45° W to TVA washer in 4-inch white oak.

ELEVATION: 3462.582 feet or 1055.397 meters (T-2)

**SNB 23** (TVA, 1941; Macon County, North Carolina)

Located 1.8 miles east of Highlands, on Bull Pen Road, 75 feet east of intersection of branch and road, 20 feet south of center line of road. A nail at base of 18-inch black oak tree.

ELEVATION: 3636.738 feet or 1108.480 meters (T-2)

**SNB 24** (TVA, 1941; Macon County, North Carolina)

Located 2.5 miles southeast of Highlands, on Bull Pen Road, on west bank, 400 feet east of branch across road, 0.4 miles from foot of mountain. A chiseled circle in rock.

Note: Searched for but not recovered, July, 1946.

ELEVATION: 3179.351 feet or 969.068 meters (T-2)

**SNB 25** (TVA, 1941; Jackson County, North Carolina)

Located 6.5 miles south of Cashiers, 0.5 miles north of intersection of Highway 107 and Bull Pen Road, on Highway 107, 30 feet east of highway, in mouth of small hollow. Bolt in root of 16-inch hickory stump.

ELEVATION: 3214.639 feet or 979.824 meters (T-2)

**TT 95 DL** (USGS, 1934; Oconee County, South Carolina)

Located 2.4 miles south of Upper Falls of the Whitewater River, 1.4 miles south of North Carolina-South Carolina State line, 20 feet east of center line of road between Salem and Oakland, 350 feet south center line of road, on top of ridge. A standard tablet stamped "TT 95 DL 1934 2443" and set in a 7- by 7-foot concrete post.

GEODETIC POSITION: Lat. = 35°00'40.59"; Long. = 83°01'37.99" (G-3)

GRID POSITION (N. C.): X = 794,454.1; Y = 483,476.2 (G-3)

ELEVATION: 2442.29 feet (G-3)

**TT 98 DL** (USGS, 1934; Jackson County, North Carolina)

Located 10.6 miles south of Oakland, 14.4 miles northwest of Salem, 1.2 miles south of Upper Falls bridge over Whitewater River, 12 feet west of center line of road between Salem and Oakland, 80 feet north of North Carolina-South Carolina State line, in boulder west of road. A standard tablet stamped "TT 98 DL 1934".

Reference mark is 2 feet southwest of tablet, 20 feet west of center line of road, in 4- by 4-foot boulder. A chiseled square, 0.15 feet lower than tablet.

GEODETIC POSITION: Lat. = 35°01'29.25"; Long. = 83°01'11.49" (G-3)

GRID POSITION (N. C.): X = 796,855.6; Y = 488,301.9 (G-3)

ELEVATION: 2635.84 feet (G-3)

**TT 99 DL** (USGS, 1934; Oconee County, South Carolina)

Located about 1.5 miles west of Lower Falls on Whitewater River, 0.3 miles southwest of Tri-State County Club, 10 feet north and 12 feet west of center of triangle formed by T-road in rock. A standard tablet stamped "TT 99 DL 1934".

GEODETIC POSITION: Lat. = 35°00'53.38"; Long. = 83°00'00.41" (G-3)

GRID POSITION (N. C.): X = 802,615.8; Y = 484,440.0 (G-3)

ELEVATION: 1915.74 feet (G-3)

**TT 123 S** (USGS, 1934; Jackson County, North Carolina)

Located 25.1 miles northwest of Walhalla, South Carolina, 7.7 miles south of Cashiers, 0.3 miles north of North Carolina-South Carolina State line, 50 feet north of center line of bridge over creek, 20 feet northwest of center line of road. A standard tablet stamped "TT 123 S 1934 2866" and set in

## small boulder.

Reference mark is 50 feet south of tablet, 12 feet west of center line of bridge, on concrete pier. A chiseled square 4.748 feet lower than tablet.

ELEVATION: 2866.85 feet (G-3)

## TT 124 S (USGS, 1934; Jackson County, North Carolina)

Located 6.3 miles south of Cashiers, 2.7 miles north of North Carolina-South Carolina State line, on State Highway 107, 30 feet west of center line of highway. A standard tablet stamped "TT 124 S 1934 3316" and set approximately in center of 25- by 15-foot boulder.

Reference mark is 15 feet east by 3 feet north of tablet, 12 feet west of center line of highway, in east edge of 25- by 15-foot boulder. A chiseled square, 3.172 feet lower than tablet.

ELEVATION: 3317.21 feet (G-3)

## TT 125 S (USGS, 1934; Jackson County, North Carolina)

Located 2.5 miles south of Cashiers, 5.5 miles north of North Carolina-South Carolina State line, on Highway 107, 15 feet east of center line of highway, near southwest end of 100- by 30-foot boulder. A standard tablet stamped "TT 125 S 1934 3495".

Reference mark is 60 feet northeast of tablet, 40 feet southeast of center line of highway, in boulder. A chiseled square, 1.311 feet lower than tablet.

ELEVATION: 3495.91 feet (G-3)

## TT 126 S (USGS, 1934; Jackson County, North Carolina)

Located 3.0 miles south of Cashiers, along State Highway 107, thence 0.9 miles east along Bohaynee road to Bohaynee, 15 feet west of center line of road, in 50- by 20-foot boulder. A standard tablet stamped "TT 126 S 1934 3436".

Reference mark is 15 feet south of tablet, in south end of 50- by 20-foot boulder. A chiseled square, 2.012 feet lower than tablet.

ELEVATION: 3436.97 feet (G-3)

## TT 127 S (USGS, 1934; Transylvania County, North Carolina)

Located 3.0 miles south of Cashiers, along State Highway 107, thence 4.9 miles east along Bohaynee road 6.8 miles southwest of Oakland, 100 feet north of bridge at Slippery Witch Falls, 30 feet southwest of center line of the road, approximately in center of 50- by 5-foot rock ledge. A standard tablet stamped "TT 127 S 1934 3334".

Reference mark is 40 feet east by 12 feet north of tablet, 20 feet northeast of center line of road, in root on southwest side of 24-inch oak tree. A wire nail, 3.08 feet higher than tablet.

ELEVATION: 3334.75 feet (G-3)

## TT 128 S (USGS, 1934; Jackson County, North Carolina)

Located 9.5 miles south of Oakland, 0.2 miles south of bridge over Whitewater River, above Upper Falls, 60 feet east of center line of road, in 15- by 3-foot boulder. A standard tablet stamped "TT 128 S 1934 2684".

Reference mark is 35 feet west by 15 feet south of tablet, 20 feet east of center line of road, at north end of small boulder. A chiseled square, 0.07 feet higher than tablet.

GEODETIC POSITION: Lat. = 35°02'08.72"; Long. = 83°01'05.81" (G-3)

ELEVATION: 2685.09 feet (G-3)

## WD 57 (TVA, 1942; Jackson County, North Carolina)

Located 4-1/4 miles east of Highlands, 4-1/4 miles south of Cashiers, in field and 70 feet south of fence line. To reach from Cashiers, drive south on State Highway 107 for 1.8 miles from junction with U. S. Highway 64, turn right on Whiteside road 4.9 miles to intersection approximately 300 feet north of white church building on left. Station is in field approximately 200 feet southwest of this intersection, approximately 400 feet northwest of church. A 1- by 1-inch angle iron stamped "WD 57 1941" and on north side of 10-inch apple tree.

Reference Mark 1: 0.87 feet S 36° E to 10-inch apple tree.

GRID POSITION (N. C.): X = 765,520.0; Y = 503,027.8 (T-4)

ELEVATION: 2814 feet (T-5)

## WD 58 (TVA, 1942; Jackson County, North Carolina)

Located 5-1/2 miles southeast of Cashiers, 8-1/2 miles east of Highlands. To reach from Cashiers, at crossroads (U. S. Highway 64 and State Highway 107), go south on State Highway 107 for 6.0 miles to gap, turn left, then immediately right on logging road 0.3 miles to gap, continue in southeasterly direction, bearing to left of center line of ridge, 0.5 miles to fork, bear right along side of mountain, then northeasterly along center line of spur ridge, then sharp right into hollow, in all 1/2 mile to fork at creek, go straight ahead (right), then immediately left across creek, then right along right bank of creek approximately 0.2 miles to fork, bear left and keep highest road up along side of mountain 0.3 miles to end, end of truck travel. Continue on foot easterly 300 feet to center line of spur ridge, turn right approximately 1000 feet to top, then turn right along fairly level top approximately 800 feet to intersection of ridges at highest point and station. Station is approximately 100 feet northwest of highest point, at intersection of ridges on Flat Mountain, approximately 100 feet west of west edge of old field on center line of ridge. A 1- by 1-inch angle iron stamped "WD 58 1941".

Reference Mark 1: 19.60 feet East to nail and blaze and washer in 8-inch black oak.

Reference Mark 2: 18.20 feet S 30° E to nail and blaze and washer in 12-inch black oak.

Reference Mark 3: 3.30 feet West to nail and blaze and washer in 20-inch black oak.

GRID POSITION (N. C.): X = 788,442.7; Y = 492,724.4 (T-4)

ELEVATION: 3931 feet (T-5)

## WD 60 (TVA, 1941; Jackson County, North Carolina)

Located 5 miles south of Cashiers on a high point of Terrapin Mountain. To reach from Cashiers, at junction of U. S. Highway 64 and State Highway 107, drive south on Highway 107 for 5.7 miles to T-road right, turn right 1.1 miles to fork, then bear right 0.9 miles to saddle, turn sharp left on logging road along center line of ridge 0.6 miles to point where road leaves ridge, bearing right, end of truck travel. Continue on foot along center line of ridge approximately 0.5 miles to intersection with main ridge, then turn right along center line of ridge 0.5 miles to station which is in west side of 10-inch hickory at south end of narrow top, about 50 feet south of rock outcrop. A 60d nail.

Reference Mark 1: 9.55 feet N 50° W to nail and copper washer in blaze in 4-inch oak.

Reference Mark 2: 10.40 feet S 45° W to nail and copper washer in blaze in 12-inch chestnut stump.

Reference Mark 3: 12.50 feet S 35° E to nail and copper washer in blaze in 3-inch oak.

GRID POSITION (N. C.): X = 775,935.2; Y = 498,860.2 (T-4)

ELEVATION: 4475 feet (T-5)

## WD 61 (TVA, 1942; Jackson County, North Carolina)

Located 1-1/2 miles north of Cashiers, on sharp wooded ridge. To reach from Cashiers, at junction of U. S. Highway 64 and State Highway 107, drive east on U. S. Highway 64 for 1.9 miles to T-road left at Lupton Lake, turn left approximately 100 feet, then left 2.4 miles to gap, take sharp left on badly washed road along ridge 1.0 miles to fork near miner's camp, take right 250 feet to fork at miner's cabin, then bear right 0.1 miles to log loading skid, end of truck travel, continue westerly on trail 800 feet to gap, thence go north on center line of ridge up steep bluff to top. Station is at base of 10-inch oak at west end of sharp ridge, approximately 5 feet north of same. A 1- by 1-inch angle iron stamped "WD 61 1941".

Reference Mark 1: 24.20 feet N 10° W to nail in blaze in 14-inch oak.

Reference Mark 2: 1.52 feet N 50° E to nail in blaze in 10-inch oak.

Reference Mark 3: 28.95 feet S 50° E to nail in blaze in 8-inch oak.

GRID POSITION (N. C.): X = 775,386.3; Y = 529,308.2 (T-4)

ELEVATION: 4681 feet (T-5)

## WD 62 (TVA, 1941; Jackson County, North Carolina)

Located 1-1/2 miles north of Cashiers. To reach from Cashiers, at junction of U. S. Highway 64 and State Highway 107, drive east on Highway 64 for 1.9 miles to road left at Lupton Lake, turn left approximately 100 feet, then left 2.4 miles to gap, turn left on badly washed road 1.0 miles to fork near miner's cabin, bear left 250 feet to station which is in forks of road 20 feet southwest of miner's cabin (abandoned). A 1- by 1-inch angle iron stamped "WD 62 1941".

Reference Mark 1: 21.69 feet N 88° E to nail and copper washer in blaze in 20-inch red oak.

Reference Mark 2: 14.52 feet S 45° E to nail and copper washer in blaze in 5-inch white oak.

Reference Mark 3: 21.40 feet N 32° E to nail and copper washer in blaze in southwest corner of shed.

GRID POSITION (N. C.): X = 777,221.4; Y = 529,396.5 (T-4)

ELEVATION: 4126 feet (T-5)

## WD 63 (TVA, 1941; Jackson County, North Carolina)

Located 3-1/2 miles northeast of Cashiers, at the top (north) edge of a pasture field, about 30 feet north of a dead snag in the field, 40 feet north-east of a point in the woods line. To reach from Cashiers, drive east on U. S. Highway 64 for 1.9 miles to road left at Lupton Lake, turn left approximately 100 feet, then left 2.5 miles to T-road and gate right approximately 1000 feet beyond gap, turn left 0.2 miles to fork, then bear right 0.4 miles to house, end of truck travel, go in northeasterly direction through field approximately 500 feet to saddle, then approximately 400 feet northerly to station. A 1- by 1-inch angle iron stamped "WD 63 1941".

Reference Mark 1: 16.98 feet N 82° W to nail and copper washer in 2-inch hickory.

Reference Mark 2: 12.10 feet N 39° W to nail and copper washer in 4-inch hickory.

Reference Mark 3: 18.02 feet North to nail and copper washer in 3-inch hickory.

GRID POSITION (N. C.): X = 782,079.2; Y = 535,199.3 (T-4)

ELEVATION: 4181 feet (T-5)

## WD 64 (TVA, 1942; Jackson County, North Carolina)

Located 3.3 miles east of Cashiers, at south side of 18-inch pine tree, approximately 400 feet west of barn, approximately 10 feet north of fence line. To reach from Cashiers, drive east on U. S. Highway 64, 3.0 miles to field road right, turn right 0.4 miles to gate at barn, go through gate, then immediately turn left through another gate, continue on road through field, crossing ditch on bridge 100 feet east of gate, thence along edge of woods, 0.5 miles to station which is 30 feet south of road. A 1- by 1-inch angle iron stamped "WD 64 1941".

Reference Mark 1: 1.58 feet N 12° E to 18-inch pine.

GRID POSITION (N. C.): X = 788,977.0; Y = 522,824.5 (T-4)

ELEVATION: 3148 feet (T-5)

## WD 65 (TVA, 1941; Rabun County, Georgia)

Located 9-1/2 miles southeast of Highlands, 9 miles south of Cashiers, on the highest point on north end of ridge bearing northeast from the east end of Glade Mountain, on the right bank of Chattooga River. To reach from Cashiers, at junction of U. S. Highway 64 and State Highway 107, drive south on State Highway 107 for 5.3 miles to Bull Pen road, turn right on Bull Pen road 2.7 miles to logging road left near sign "Trail to South Carolina", turn left approximately 4-1/2 miles to end at mouth of Bad Creek, end of truck travel, cross Chattooga River and go in westerly direction up ridge (no trail) 1/2 mile to high point, turn right and continue to next high top (approximately 1000 feet), bear right northerly along fairly level ridge top approximately 500 feet to high point at north end of ridge and station. A 1- by 1-inch angle iron stamped "WD 65 1941" in the extreme northeast corner of Rabun County, Georgia.

Reference Mark 1: 14.65 feet S 10° E to nail and washer in blaze in 16-inch white oak.

Reference Mark 2: 13.98 feet West to nail and washer in blaze in 18-inch black oak.

Reference Mark 3: 2.95 feet N 20° W to nail and washer in blaze in 12-inch white oak.

GRID POSITION (N. C.): X = 769,620.5; Y = 478,426.7 (T-4)

ELEVATION: 2976 feet (T-5)

## WD 66 (TVA, 1941; Macon County, North Carolina)

Located 1-3/4 miles northwest of Highlands, on the center line of ridge in pine grove, 10 feet west of center line of road, 10 feet north of electric fence. To reach from Highlands, at junction of U. S. Highway 64 and State Highway 28, drive west 1.1 miles on U. S. Highway 64 to fork, turn right 0.3 miles to fork just beyond bridge over lake, turn right along lake to fork, turn right 0.3 miles to fork just beyond bridge over lake, turn right along lake 0.2 miles to fork, then bear left 1.0 miles to gap, turn sharp left on private road (sign "Smith") 500 feet to fork, then bear left 500 feet to station which is

approximately 700 feet north of large dwelling house, 400 feet approximately west of tenant house, 400 feet south of tenant house. A 1- by 1-inch angle iron stamped "WD 66 1941".

Reference Mark 1: 17.10 feet S 53° E to nail and washer in 10-inch pine.  
Reference Mark 2: 16.65 feet N 50° W to nail and washer in 10-inch pine.  
Reference Mark 3: 15.60 feet S 51° W to nail and washer in 10-inch white pine.

GRID POSITION (N. C.): X = 740,589.5; Y = 507,642.6 (T-4)  
ELEVATION: 3969 feet (T-5)

#### WD 78 (TVA, 1942; Transylvania County, North Carolina)

Located 4.0 miles southwest of Oakland, 6-1/2 miles southeast of Cashiers, about 3.0 feet below level of road. To reach from Cashiers, drive east 5.9 miles on U. S. Highway 64 to fire warden's house near Lake Sapphire, turn right on dirt road 1.7 miles to intersection, turn right and follow main road 4.2 miles to Montvale School, turn left 0.8 miles to station. A 1- by 1-inch angle iron stamped "WD 78 1942", 25 feet east of center line of Bohaynes road, 0.6 miles northeast of Montvale School.

Reference Mark 1: 11.43 feet N 80° E to nail in blaze in 6-inch red oak.  
Reference Mark 2: 6.95 feet East to nail and blaze in 6-inch black oak stump.  
Reference Mark 3: 0.60 feet S 30° E to nail in blaze in 18-inch pine.

GRID POSITION (N. C.): X = 801,867.8; Y = 504,431.4 (T-4)  
ELEVATION: 3187 feet (T-5)

#### WD 79 (TVA, 1942; Transylvania County, North Carolina)

Located 7 miles southeast of Cashiers, 4-1/2 miles south of Sapphire. To reach from Cashiers, drive east on U. S. Highway 64 for 5.9 miles to fire warden's house, turn right on dirt road 1.7 miles to Sapphire, turn right 4.0 miles to intersection west of Montvale School, turn right 0.5 miles to fork about 500 feet beyond house, turn left 0.8 miles to T-road on center line of ridge, turn sharp left up hill 0.2 miles to cornfield, leave truck here and follow center line of ridge south to high point, continue south about 400 feet along center line of ridge to station which is about 15 feet southeast of center line of ridge, driven into shallow dirt on rock outcrop with stones piled around it. A 1- by 1-inch angle iron, unstamped.

Reference Mark 1: 4.20 feet N 34° W to nail in blaze in 18-inch oak.  
Reference Mark 2: 9.45 feet N 45° E to nail in blaze in 12-inch oak.  
Reference Mark 3: 18.25 feet S 45° E to nail in blaze in 16-inch oak.

GRID POSITION (N. C.): X = 797,168.1; Y = 499,793.2 (T-4)  
ELEVATION: 3726 feet (T-5)

#### WD 80 (TVA, 1942; Transylvania County, North Carolina)

Located about 7-1/2 miles southeast of Cashiers, 7-1/2 miles southwest of Lake Toxaway, 20 feet east of farm road, about 3 feet higher than center line of farm road. To reach from Cashiers, drive east on U. S. Highway 64 for 5.9 miles to fire warden's house, turn right on dirt road 1.7 miles to Sapphire, turn right 4.2 miles to intersection 300 feet east of Montvale School, turn right 0.15 miles to intersection, turn sharp left 0.15 miles to another intersection, bear right 1.0 miles to Y-road, turn left 0.7 miles to station. A 1- by 1-inch angle iron, unstamped.

Reference Mark 1: 2.15 feet N 60° W to nail in blaze in 3-inch black oak.  
Reference Mark 2: 6.40 feet N 60° E to nail in blaze in black oak.

GRID POSITION (N. C.): X = 801,350.5; Y = 496,216.4 (T-4)  
ELEVATION: 3096 feet (T-5)

#### WD 81 (TVA, 1942; Jackson County, North Carolina)

Located 3-1/2 miles southwest of Cashiers, 5 miles northwest of Highlands, on center line of wooded ridge. To reach from Cashiers, drive south on State Highway 107 for 1.8 miles to Whiteside road, turn right on road for 4.1 miles to woods road right at curve, turn right 300 feet to fork, then bear left 0.2 miles to edge of woods, end of truck travel, continue on woods road in northward direction about 2000 feet, then bear left up skid trail about 1000 feet to center line of ridge, continue northward on old trail along center line of ridge about 1000 feet to station which is on center line of ridge about 500 feet north of saddle on east side of line white pine tree. A 1- by 1-inch angle iron stamped "WD 81 1942".

Reference Mark 1: 3.01 feet N 60° W to 18-inch pine (nail in blaze)  
Reference Mark 2: 35.50 feet N 88° E to 14-inch hickory (nail in blaze).

Reference Mark 3: 10.75 feet S 77° W to nail in blaze in 12-inch oak.

GRID POSITION (N. C.): X = 765,351.0; Y = 508,176.2 (T-4)  
ELEVATION: 3338 feet (T-5)

#### WD 82 (TVA, 1942; Jackson County, North Carolina)

Located 3-1/2 miles east of Highlands, 5 miles southwest of Cashiers, 150 feet S 30° W of box house, 30 feet west of center line of road. To reach from Cashiers, drive south on State Highway 107 for 1.8 miles to Whiteside road, turn right 6.7 miles on Whiteside road to station. A 1- by 1-inch angle iron stamped "WD 82 1942".

Reference Mark 1: 13.95 feet S 82° W to nail in blaze in 12-inch oak.

Reference Mark 2: 41.82 feet N 09° E to nail in blaze in 8-inch oak.

Reference Mark 3: 24.00 feet S 31° E to nail in blaze in 8-inch oak.

GRID POSITION (N. C.): X = 761,999.0; Y = 497,697.5 (T-4)  
ELEVATION: 3033 feet (T-5)

#### WD 82 A (TVA, 1942; Jackson County, North Carolina)

Located 5 miles southwest of Cashiers, 4-1/4 miles east of Highlands on center line of ridge, in scrub pine thicket, about 200 feet west of an abandoned barn. To reach from Cashiers, drive south 1.8 miles on State Highway 107 to Whiteside, turn right on Whiteside road 5.1 miles to Y-road 0.1 miles beyond old Whiteside schoolhouse, turn left on Y-road 0.6 miles to abandoned barn on right, leave truck, go about 3000 feet west of abandoned barn to center line of ridge and station. A 1- by 1-inch angle iron

\* South of Quadrangle 176. Approximate location indicated on index map.

\*\*South of Quadrangle 176. Position not indicated on index map.

stamped "WD 82A 1942".

Reference Mark 1: 7.05 feet N 19° W to nail in blaze in 2-inch pine.

Reference Mark 2: 16.70 feet N 25° E to nail in blaze in highest point on lone rock.

Reference Mark 3: 5.95 feet East to nail in blaze in 2-inch pine.

GRID POSITION (N. C.): X = 764,925.0; Y = 499,971.1 (T-4)  
ELEVATION: 2854 feet (T-5)

#### \*WD 84 (TVA, 1942; Oconee County, South Carolina)

Located 8 miles north of Tamassee, 7-1/2 miles west of Jocassee. To reach from Wahalla Post Office, drive west on State Highway 28 for 8.1 miles to fork of Highway 28 and State Highway 107, bear right 13.5 miles on Highway 107 to Tri-State Fishing Lodge, continue on Highway 107 1.1 miles to bend in road curving to left, end of truck travel, turn right up old logging road which goes up north side of small hollow about 1000 feet to gap, turn right on center line of ridge about 300 feet to highest point of knoll, thence 50 feet southeast to station. A 1- by 1-inch angle iron stamped "WD 84 1942" 50 feet southeast of highest point on knoll.

Reference Mark 1: 1.82 feet North to nail in blaze in 14-inch oak.

Reference Mark 2: 32.94 feet N 70° E to nail in blaze in 20-inch oak.

Reference Mark 3: 18.96 feet S 50° W to nail in blaze in 5-inch locust.

GRID POSITION (N. C.): X = 787,761.4; Y = 477,070.1 (T-4)  
ELEVATION: 3105 feet (T-5)

#### \*WD 85 (TVA, 1942; Oconee County, South Carolina)

Located 8 miles north of Tamassee, 5 miles northwest of Jocassee. To reach from Chatham River bridge which is about 800 feet east of Tamassee General Store, drive 0.2 miles to intersection, turn left 1.1 miles to forks, bear right 1.5 miles to fork, turn right on Whitewater road 1.1 miles to intersection, continue straight ahead 1.4 miles to fork, bear right 5.1 miles to Y-road in gap, bear right past Whitewater Church, 0.5 miles to Bear Pen School and station. A 1- by 1-inch angle iron stamped "WD 85 1942" and at northwest corner of school building.

GRID POSITION (N. C.): X = 795,502.3; Y = 475,718.5 (T-4)  
ELEVATION: 1867 feet (T-5)

#### \*WD 86 (TVA, 1942; Oconee County, South Carolina)

Located about 9 miles north of Tamassee, 5 miles northwest of Jocassee. To reach from Tamassee, at Chatham River bridge, which is about 800 feet east of general store at Tamassee, drive 0.2 miles to intersection, turn left 1.1 miles to fork, right 1.5 miles to fork, turn right on Whitewater road 1.1 miles to intersection, continue straight ahead 1.4 miles to fork, bear left 6.3 miles to gap about 1/4 mile south of Indian Fork, end of truck travel, turn right up hill and follow center line of ridge easterly about 1 mile to a long ridge, running northeast and southwest. Station is about 150 feet southwest of southwest end of top, 20 feet southeast of center line of ridge, about 3 feet northeast of a fallen pine tree. A 1- by 1-inch angle iron stamped "WD 86 1942" about 150 feet southwest of highest point on wooded knoll, 6 feet lower than top of knoll.

Reference Mark 1: 18.48 feet N 58° W to nail in blaze in 10-inch pine.

Reference Mark 2: 15.65 feet N 15° W to nail in blaze in 10-inch oak.

Reference Mark 3: 11.44 feet N 86° E to nail in blaze in 14-inch oak.

GRID POSITION (N. C.): X = 796,927.8; Y = 478,488.1 (T-4)  
ELEVATION: 2156 feet (T-5)

#### WHITESIDE (USGS, 1934; Jackson County, North Carolina)

Located about 4 miles northeast of Highlands on Whiteside Mountain. To reach from Highlands, proceed from intersection of Main Street and State Highway 28 north on Highway 28 towards Brevard for 5.65 miles to a side road at Maccon-Jackson County line, thence turn right on side road and go 0.8 miles to end of truck travel, leave car and follow well defined trail to top of mountain. Station is on southwest edge of rocky top and about 20 feet north-east of highest point, set in rock outcrop about 1 foot northeast of base of saved off tree. This tree was used as an instrument stand. A standard tablet stamped "WHITESIDE 1934".

Reference Mark 1: 16.1 feet S 14° 57' W to drill hole in rock.

Reference Mark 2: 16.3 feet S 26° 11' E to drill hole in rock.

Reference Mark 3: 27.3 feet N 18° 06' E to drill hole in rock.

Reference Mark 4: 72.7 feet S 36° 02' W to drill hole in rock.

GEODETIC POSITION: Lat. = 35° 04' 52.626"; Long. = 83° 08' 17.351" (G-3)

To Station	Geodetic Azimuths		Distance
	Azimuth	Back Azimuth	Log. Meters Miles
Satulah	44° 38' 45.6"	224° 36' 53.5"	3.847560 4.4
Scaly	70° 03' 34.0"	249° 58' 28.8"	4.156024 8.9
Hogback Mt.	137° 07' 12.1"	317° 04' 14.3"	4.060652 7.1

GRID POSITION (N. C.): X = 762,326.9; Y = 510,298.3 (G-3)

#### YELLOW MOUNTAIN (USGS, 1934; Jackson-Macon Counties, North Carolina)

Located about 5 miles west of Glensville, on summit of Yellow Mountain, highest mountain in this region. Center line of lookout tower.

GEODETIC POSITION: Lat. = 35° 08' 08.003"; Long. = 83° 11' 29.371" (G-3)

To Station	Geodetic Azimuths		Distance
	Azimuth	Back Azimuth	Log. Meters Miles
Scaly	38° 14' 01.7"	218° 10' 46.7"	4.142740 8.6
Fiabhawk	69° 12' 09.4"	249° 08' 00.2"	4.069500 7.3
Whiteside	321° 03' 28.0"	141° 05' 18.5"	3.888707 4.8

GRID POSITION (N. C.): X = 747,217.0; Y = 530,700.9 (G-3)