

A 126 (USC&GS, 1935; Cooke County, Tennessee)

Located 14.7 miles southeast of Hartford, Tennessee, on the property of the Champion Fiber Company, 1000 feet northeast of shack in a clearing, 1500 feet northeast of intersection of Appalachian Trail and Maillon-Brown's Gap trail, in center of the Maillon-Brown's Gap trail, 13.2 feet east of a 36-inch painted oak tree, 21.7 feet north of a 16-inch stump with cross painted on it, and 275 feet south of a rail fence and clearing. A standard tablet stamped "A 126 1935" and set in the top of rock outcrop.

Reference Mark 1: 21.7 feet S 05° W to 16-inch stump.

Reference Mark 2: 13.2 feet S 83° W to 36-inch painted oak stump.

ELEVATION: 3458.385 feet or 1054.118 meters (T-2)

A 130 (USC&GS, 1935; Madison County, North Carolina)

Located 7.0 miles southwest of Hot Springs, North Carolina, at Bluff, North Carolina, on the property of Mrs. Hester Russell, 40 feet north of Shut-In road, 250 feet northwest of intersection of State Highway 209 and Shut-In road, 1 foot east of Bluff, North Carolina Old Post Office Building, 11.2 feet south of a large barn, 15 feet north of Langford Branch, and 28.4 feet northwest of a small warehouse. A standard tablet stamped "A 130 1935" and set in the top of a concrete post.

Reference Mark 1: 19.2 feet N 13° W to southwest corner of barn.

Reference Mark 2: 28.4 feet S 40° E to northwest corner of warehouse.

ELEVATION: 1894.671 feet or 577.497 meters (T-2)

A 159 (USC&GS, 1935; Madison County, North Carolina)

Located 0.9 miles northwest of station at Hot Springs by rail, along Asheville to Knoxville branch of Southern Railway, 2 rails southeast of milepost No. 180, 7 feet southwest of southwest rail, 3 feet above top of rail set vertical in face of rock cut. A standard tablet stamped "A 159 1935".

ELEVATION: 1318.577 feet or 401.903 meters (C-1)

AKW 260 (TVA, 1941; Madison County, North Carolina)

Located 4.5 miles southwest of Marshall, North Carolina, 1000 feet west of Roberts Creek, on nose of cleared ridge, at east end of strip of grass and at fence corner. To reach from courthouse at Marshall, drive north on U. S. Highways 25 and 70 for 0.2 miles to fork, bear left parallel to railroad for 3.2 miles to fork at west end of bridge over French Broad River, turn right 2.0 miles to bridge 105 near Caney Fork Church, turn right 0.6 miles up Little Pine Creek road to fork, bear left on Roberts Branch road, keeping along creek 1.6 miles to farm road right in curve, turn right thru farm yard 0.2 miles to trail right and end of truck travel. Take trail in northerly direction thru cultivated field and up wash 600 feet to station on center line of ridge. A 1- by 1-inch anise iron.

Reference Mark 1: 11.8 feet S 52° W to 6-inch pine.

Reference Mark 2: 15.4 feet N 30° W to 3-inch locust on fence line.

GRID POSITION (N.C.): X = 887,433.2; Y = 751,401.2 (T-4)

ELEVATION: 2166 feet (T-5)

B 130 (USC&GS, 1935; Madison County, North Carolina)

Located 8.0 miles southwest of Hot Springs, North Carolina, 0.2 miles southwest of W. J. Conner's store, on the property of Henry Plemons, 70 feet east of Meadow Fork road, 15 feet east of and on right bank of Meadow Fork Creek, 150 feet south of a fence corner, 15 feet southeast of base of an old foot bridge across creek, about half way between two upstream apple trees, and in line with drain (across road and creek) and most upstream apple tree, and 12.0 feet from water's edge. A standard tablet stamped "B 130 1935" and set in concrete post.

Reference Mark 1: 35.5 feet N 75° E to base of leaning 6-inch apple tree.

Reference Mark 2: 56.0 feet S 67° E to 8-inch apple tree.

ELEVATION: 1878.792 feet or 572.657 meters (T-2)

B 159 (USC&GS, 1935; Madison County, North Carolina)

Located 2.0 miles northwest along the Southern Railway from the station at Hot Springs, 12-1/2 rails northwest of Shaleville, 17 rails northwest of milepost No. 181, 1 rail southeast of southeast end of a spur track, 7 feet southwest of southwest rail, 6 inches below top of rail, set in northwest end of southwest headwall of concrete culvert. A standard tablet stamped "B 159 1935".

ELEVATION: 1314.545 feet or 400.674 meters (C-1)

BLUFF (USGS, 1934; Madison County, North Carolina)

Located on summit of wooded top locally known as the North Carolina top of Bluff Mountain, about 5.8 miles southwest of Hot Springs. To reach from Hot Springs, drive south on State Highway 209 for 6.9 miles, turn right and go 0.75 miles, turn right and go 0.9 miles to Garenflo Gap, turn left thru gate and follow road 0.8 miles to barn, turn right and go 0.2 miles to gap and Appalachian Trail. Leave car and follow well-defined and graded trail to top and station. A standard tablet stamped "BLUFF 1934" and cemented in rock set in place, flush with ground.

Reference Mark 1: Class "A" Forest Service marker stamped "RM #1" 23.93 feet from station, bearing N 34° W.

Reference Mark 2: 1-inch drill hole in rock outcrop, 23.73 feet from station, bearing S 74° W.

GEODETIC POSITION: Lat. = 35°50'27.791"; Long. = 82°54'24.395" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Max Patch	43°00'31.8"	222°58'46.0"	3.823157	4.1
Rich	223 51 15.7	43 54 50.1	4.121969	8.2
Trouble	296 25 04.4	116 27 52.9	3.907063	5.0

GRID POSITION (TENN.): X = 2,916,667.1; Y = 541,951.3 (G-3)

GRID POSITION (N.C.): X = 842,371.9; Y = 783,801.0 (G-3)

ELEVATION: 4686 feet (T-5)

BM 1 (USC&GS, 1934; Madison County, North Carolina)

Located 3 miles northwest along the Southern Railway from Hot Springs, about 2.4 miles southeast of Paint Rock, about 7 feet west of milepost No. 182, on the top of the southeast corner of the concrete base of Signal S 1821, and about 7 feet north of the north rail. A chiseled square.

ELEVATION: 1296.992 feet or 395.324 meters (C-2)

BM 2 (USC&GS, 1934; Madison County, Tennessee)

Located at Paint Rock, along the Southern Railway, about 7.5 rails east of the Southern Railway station, at bridge S 1843 over Grass Creek, on the northwest corner of the north end of the vest retaining wall, about 4 feet north of the north rail, and at the edge of a bevel. A square cut.

ELEVATION: 1265.394 feet or 385.693 meters (C-2)

BM 3 (USC&GS, 1934; Cooke County, Tennessee)

Located about 3 miles west along the Southern Railway from Paint Rock, about 0.4 miles west of railroad bridge S 1866, about 11 rails east of milepost No. 187, on the top of the southwest corner of the concrete base of signal S 1869, about 7 feet north of the north rail. A chiseled square.

ELEVATION: 1225.814 feet or 373.629 meters (C-2)

C 121 (USC&GS, 1935; Greene County, Tennessee)

Located 12.6 miles northeast of Wolf Creek, Tennessee, on the property of St. George C. Rollins, 30 feet northwest of Cove Creek road, 38.7 feet south of Rollins' house, 1 foot southeast of wire fence, 30 feet southwest of gate to Rollins' house, 60.4 feet northeast of southeast corner of Rollins' store, and 24 feet northwest of mailbox. A standard tablet stamped "C 121 1935" and set in the top of a concrete post.

Reference Mark 1: 60.4 feet S 53° W to southeast corner of Rollins' store.

Reference Mark 2: 38.7 feet N 05° E to southwest corner of Rollins' house.

ELEVATION: 1471.808 feet or 448.608 meters (T-2)

C 130 (USC&GS, 1935; Madison County, North Carolina)

Located 9.0 miles southwest of Hot Springs, North Carolina, 4 feet north-west of Meadow Fork road, 110 feet northwest of foot bridge over Meadow Fork Creek, 200 feet east of and around bend in road from E. B. Ebbs' store, in road cut. A standard tablet stamped "C 130 1935" and set vertically in rock outcrop.

ELEVATION: 2015.531 feet or 614.335 meters (T-2)

C 159 (USC&GS, 1935; Madison County, North Carolina)

Located 2.9 miles northwest along the Southern Railway from the station at Hot Springs, 15.5 feet southeast of milepost No. 182, 14 feet northeast of northeast rail, 8 feet northwest of a culvert, and 4.7 feet southwest of fence. A standard tablet stamped "C 159 1935" and set in the top of a concrete post.

ELEVATION: 1296.717 feet or 395.240 meters (C-1)

CHUCKY 2 (USGS, 1934; Greene County, Tennessee)

Located on east end of Meadow Creek Mountain range, on highest peak of Chucky Mountain. The best approach to station leaves the Houtan Valley Highway at a point 0.8 miles west of the junction of Tennessee Highway 70, thence travel north on the Jackson road (up Jack's branch) 0.8 miles, thence along old logging road by foot about N 60° W along Jack's branch to its headwaters, thence up thickly wooded hollow to top of Meadow Creek Mountain range and trail, this point being about 1-1/4 miles from the Jackson road, then go westerly along trail about 1 mile to station. Station and reference marks are class "A" monuments 3 inches above surface of ground.

GEODETIC POSITION: Lat. = 35°59'39.458"; Long. = 82°53'43.079" (G-3)

To Station Azimuth Back Azimuth Log. Meters Miles

Bluff 3°29'23.1" 183°28'58.9" 4.231325 10.6

Camp Creek St. 258 42 35.2 78 48 55.7 4.218222 10.3

Rich 312 29 13.5 132 32 24.1 4.042850 6.9

GRID POSITION (TENN.): X = 2,918,297.8; Y = 597,811.4 (G-3)

ELEVATION: 3102 feet (T-5)

D 58 (USC&GS, 1934; Madison County, North Carolina)

Located about 13.3 miles south along State Highway 209 from Hot Springs, about 0.3 miles south of a crossroad, in the yard of the Spring Creek High School, about 45 feet west of the school building, about 45 feet east of the center line of the highway, about 18 feet north of the center line of the south drive to the school, and 5 feet north of a fence post. A standard tablet stamped "D 58 1934" and set in concrete monument.

GEODETIC POSITION: Lat. = 35°46'06.78"; Long. = 82°52'28.42" (T-4)

GRID POSITION (TENN.): X = 6,927,053.2; Y = 515,877.5 (T-4)

GRID POSITION (N.C.): X = 690,882.8; Y = 757,057.2 (T-4)

ELEVATION: 2268.083 feet or 691.313 meters (C-2)

D 121 (USC&GS, 1935; Greene County, Tennessee)

Located 11.4 miles northeast of Wolf Creek, Tennessee, 17 feet southeast of Cove Creek road, 50 feet west of J. A. Mills' house, 6 feet southeast of fence corner, in the northwest corner of Mills' yard, 32 feet south of concrete steps, and about 140 feet north of large barn. A standard tablet stamped "D 121 1935" and set in the top of a concrete post.

Reference Mark 1: 50.0 feet S 65° E to northwest corner of J. A. Mills' house.

Reference Mark 2: 34.7 feet S 51° W to 16-inch walnut tree.

ELEVATION: 1582.772 feet or 482.430 meters (T-2)

D 130 (USC&GS, 1935; Madison County, North Carolina)

Located 10.0 miles southwest of Hot Springs, North Carolina, 27 feet northwest of Meadow Fork road, 85 feet north of J. S. Holland's house, 8.3 feet west of Holland's garage, 5 feet northeast of a spring branch, and 175 feet northwest of Meadow Fork Creek, in center of a draw. A standard tablet stamped "D 130 1935" and set in concrete post.

Reference Mark 1: 8.3 feet N 40° E to northwest corner of garage.

Reference Mark 2: 20.8 feet S 80° E to southwest corner of garage.

ELEVATION: 2097.798 feet or 639.410 meters (T-2)

D 159 (USC&GS, 1935; Madison County, North Carolina)

Located 1.5 miles southeast along the Southern Railway from the station at Paint Rock, 24 yards east of railway bridge 182.7, over Shut-In Creek, 22 feet south of south rail, 16 feet north of abandoned donkey engine, 14 feet west of center line of dirt road, and 14 inches above top of rail. A standard tablet stamped "D 159 1935" and set in the top of a concrete post.

ELEVATION: 1289.479 feet or 393.034 meters (C-1)

DUCKETT F. T. (TVA, 1940; Madison County, North Carolina)

Located at intersection of ridges, about 8 miles (airline) south of Hot Springs, North Carolina, and 1.9 miles (airline) northeast from State Highway 209 at Trust, North Carolina. Station is center line of fire tower on top of Rich Knob on Spring Creek Mountain.

GRID POSITION (N.C.): X = 860,369.3; Y = 755,750.5 (T-4)

E 58 (USC&GS, 1934; Madison County, North Carolina)

Located 11.4 miles south along State Highway 209 from Hot Springs, at Spring Creek, about 129 yards south of the old post office on Baltimore road leading east, at the northwest corner of the yard of a square frame bungalow, about 27 feet east of the center line of the highway, and about 12 feet east of a fence.

A standard tablet stamped "E 58 1934" and set in concrete monument.
ELEVATION: 2144.446 feet or 653.659 meters (C-2)

E 121 (USC&GS, 1935; Greene County, Tennessee)
Located 10.3 miles northeast of Wolf Creek, Tennessee, on Cove Creek road right-of-way adjoining property of T. W. Whitehurst, 4 feet northeast of Cove Creek road, 45 feet northeast of Cove Creek, 4 feet south of fence corner, 8 feet southwest of Sorghum mill, 118 feet west of A. W. Mills' house, 54 feet west of farm road, and 75 feet southwest of barn. A standard tablet stamped "E 121 1935" and set in concrete post.
Reference Mark 1: 80.7 feet S 67° E to west end of north headwall of concrete culvert.
Reference Mark 2: 61 feet S 86° W to a telephone pole.
ELEVATION: 1723.481 feet or 525.318 meters (T-2)

E 130 (USC&GS, 1935; Madison County, North Carolina)
Located 10.6 miles southwest of Hot Springs, North Carolina, 1000 feet south of intersection of Appalachian Trail, and Meadow Fork road, on the property of Allie Frisbee, 1000 feet south of Roaring Fork School, 12 feet southwest of Meadow Fork road, 65 feet southwest of Meadow Fork Creek, 2 feet southwest of wire fence, 10 feet east of a small drain, and 140 feet southwest a garden. A standard tablet stamped "E 130 1935" and set in the top of a concrete post.
ELEVATION: 2227.902 feet or 679.066 meters (T-2)

E 159 (USC&GS, 1935; Madison County, North Carolina)
Located about 0.6 miles southeast along the Southern Railway from the station at Paint Rock, about 0.3 miles southeast of milepost No. 184, at a culvert, the top of the north end of the west headwall of concrete culvert, 6 feet west of the west rail, and about 1/2 foot lower than the top of the rail. A standard tablet stamped "E 159 1935".
ELEVATION: 1273.406 feet or 388.135 meters (C-1)

F 58 (USC&GS, 1934; Madison County, North Carolina)
Located 9.1 miles south along State Highway 209 from Hot Springs, 0.2 miles southeast of a store and church, about 70 yards west of a row of poles, about 30 yards east of the center line of a drive to a frame house, about 44 feet south of the south edge of a 3- by 3-foot concrete box culvert, in a field, about 29 feet east of the center line of the highway, and about 10 feet south of the south edge of a road. A standard tablet stamped "F 58 1934" and set in concrete monument.
ELEVATION: 1985.747 feet or 605.257 meters (C-2)

F 121 (USC&GS, 1935; Greene County, Tennessee)
Located 9.3 miles northeast of Wolf Creek Tennessee, on the property of T. W. Rickett, 50 feet south of Cove Creek road, 25 feet south of large ditch, 94 feet south of barn, 250 feet southwest of Rickett's house, 60 feet southeast of concrete culvert, and 70 feet east of wooden bridge. A standard tablet stamped "F 121 1935" and set in the top of a concrete post.
Reference Mark 1: 20 feet Due West to 14-inch cherry tree.
Reference Mark 2: 67.5 feet N 37° E to painted telephone pole.
ELEVATION: 1875.436 feet or 571.634 meters (T-2)

F 130 (USC&GS, 1935; Madison County, North Carolina)
Located 11.6 miles southwest of Hot Springs, North Carolina, 1.2 miles southwest of intersection of Appalachian Trail and Meadow Fork road, 10 feet southeast of Meadow Fork road, 300 feet southeast of W. J. Rinehart's house, 50 feet northwest of Meadow Fork Creek, 12 feet northeast of a drain, and 50 feet south of a large boulder. A standard tablet stamped "F 130 1935" and set in concrete post.
Reference Mark 1: 29.0 feet N 40° W to 10-inch apple stump.
Reference Mark 2: 36.7 feet N 76° E to 4-inch poplar tree.
ELEVATION: 2557.921 feet or 779.656 meters (T-2)

F 159 (USC&GS, 1935; Madison County, North Carolina)
Located at Paint Rock, about 22 yards southeast of the Southern Railway station, 6 rails northwest of railway bridge 184.3 over Grass Creek, about 6 yards southeast of a switch, 11 yards southwest of southwest rail, and about level with top of rail. A standard tablet stamped "F 159 1935" and set in the top of a concrete post.
ELEVATION: 1264.892 feet or 385.540 meters (C-1)

FB 32 (USED, 1925; Cooke County, Tennessee)
Located 1 mile east of Wolf Creek station, on left bank of French Broad River, at railroad culvert over Water Tank Hollow, on the west end of the north abutment of the culvert. Chiseled cross painted red.
ELEVATION: 1195.49 feet (E-3)

FB 33 (USED, 1925; Cooke County, Tennessee)
Located 3 miles upstream from Wolf Creek station, at lower Southern Railway bridge across French Broad River, on top of right bank abutment, on upstream side. A chiseled cross.
ELEVATION: 1237.07 feet (E-3)

FB 34 (USED, 1925; Madison County, North Carolina)
Located at Paint Rock, North Carolina, on top of right bank abutment, upstream side of Southern Railway bridge across Grass Creek. A chiseled cross.
ELEVATION: 1265.69 feet (T-3)

FB 35 (USED, 1925; Madison County, North Carolina)
Located 1.5 miles upstream from Paint Rock at Southern Railway bridge across Shut-In Creek, on top of east end of concrete abutment. A chiseled cross.
ELEVATION: 1287.0 feet (E-4)

FB 36 (USED, 1925; Madison County, North Carolina)
Located 300 feet downstream from Shaleville station, on left bank of French Broad River, on east abutment of concrete culvert. A chiseled cross.
ELEVATION: 1314.3 feet (E-4)

FB 37 = GAGE BM 6 (USED, 1925; Madison County, North Carolina)
Located on left side of French Broad River at mile 108.9, at U. S. Highway 25 and 70, and State Highway 20 bridge over French Broad River, at Hot Springs, North Carolina, on left bridge abutment, upstream side, 21.72 feet above gage zero. A chiseled cross.
ELEVATION: 1333.26 feet (T-3)

FB 38 (USED, 1925; Madison County, North Carolina)
Located 1 mile upstream from Hot Springs, North Carolina, at Southern Railway bridge across French Broad River, on top of right bank abutment, on downstream side. A chiseled cross painted red.
ELEVATION: 1354.79 feet (E-3)

FB 39 (USED, 1925; Madison County, North Carolina)
Located about 0.4 miles downstream from Runion, North Carolina, at Southern Railway bridge, across Big Laurel Creek, at mouth, on top of right bank abutment, on upstream side. A chiseled cross painted red.
ELEVATION: 1397.66 feet (E-3)

FB 40 (USED, 1925; Madison County, North Carolina)
Located at Sandy, North Carolina, 300 feet upstream from railway station, on north end of concrete railway culvert. Chiseled cross painted red.
Note: Searched for but not recovered, July, 1946.
ELEVATION: 1459.60 feet (E-3)

FB 41 (USED, 1925; Madison County, North Carolina)
Located at Barnard, North Carolina, on highway bridge over French Broad River, on top of right bank abutment, on downstream side. A chiseled cross.
ELEVATION: 1532.59 feet (T-3)

FS 1378 (U. S. Forestry Service, 1935; Madison County, North Carolina)
Located in southeast portion of Quadrangle 182 northeast on Walnut Knob. To reach station from Marshall, North Carolina, drive west on U. S. Highways 25 and 70 for 9.3 miles to Walnut Gap and crossroads, leave car and go west following trail 2000 feet to top of knoll locally known as Walnut Knob. Marker is on highest point of hill, 75 feet north of woods and fence line, 2 feet east of 36-inch dead chestnut stump, top is 1.0 feet above surface of ground. A Forest Service Marker, a bronze tablet set with concrete in top of metal pipe and stamped "FS 1378 1935".
GEODETIC POSITION: Lat. = 35°53'35.33"; Long. = 82°45'22.41" (T-4)
GRID POSITION (TEWNS.): X = 2,960,638.2; Y = 562,348.0 (T-4)
GRID POSITION (N. C.): X = 887,677.8; Y = 801,027.9 (T-4)
ELEVATION: 2754 feet (T-5)

G 58 (USC&GS, 1934; Madison County, North Carolina)
Located 7.3 miles south along State Highway 209 from Hot Springs, about 40 yards south of a T-road leading west, at the bridge over the mouth of Meadow Fork Creek at the junction with Spring Creek, and in the top of the east end of the bridge seat of the north concrete abutment. A standard tablet stamped "G 58 1934".
ELEVATION: 1,863,536 feet or 568.007 meters (C-2)

G 121 (USC&GS, 1935; Greene County, Tennessee)
Located 8.3 miles northeast of Wolf Creek, Tennessee, 90 feet southeast of D. W. Pearsley's house, 3 feet north of Cove Creek road, 50.8 feet southeast of a barn, 150 feet west of large tobacco barn, and 115 feet southwest of old road. A standard tablet stamped "G 121 1935" and set in top of east end of north headwall of concrete culvert.
Reference Mark 1: 50.8 feet S 68° W to 18-inch white oak tree.
Reference Mark 2: 84.6 feet N 53° E to southwest corner of barn.
ELEVATION: 1826.427 feet or 556.696 meters (T-2)

G 130 (USC&GS, 1935; Madison County, North Carolina)
Located 8.3 miles southwest of Hot Springs, North Carolina, at Joe, North Carolina, 26 feet southwest of Meadow Fork road, 40.3 feet south of Joe Post Office, 200 feet east of C. W. Balding's house, 72.4 feet northwest of a large barn, 2 feet north of wire fence, 175 feet west of Meadow Fork Creek, and 250 feet west of old mill. A standard tablet stamped "G 130 1935" and set in the top of a concrete post.
Reference Mark 1: 40.3 feet N 04° E to southeast corner of post office.
Reference Mark 2: 72.4 feet S 67° E to northwest corner of barn.
ELEVATION: 2649.017 feet or 807.422 meters (T-2)

GAGE BM 2 (USGS, 1934; Big Laurel Creek, Madison County, North Carolina)
Located midway between Big Hurricane and Little Hurricane Creeks, 50 feet west of State Highway 208, and 0.5 miles north of intersection with U. S. Highways 25 and 70, and 3 miles north of Stackhouse, North Carolina, at cableway measuring section at gage, on left bank of Big Laurel Creek, 13.25 feet above gage zero. A standard reference tablet in upstream river corner of left cable anchorage.
ELEVATION: 1608.93 feet (T-3)

GAGE BM 2 (USGS, 1934; French Broad River, Madison County, North Carolina)
Located on right bank of French Broad River, at mile 109.2, 0.25 miles upstream from U. S. Highway 25 and 70 and State Highway 20 bridge over French Broad River, at Hot Springs, North Carolina, in top of gage post on intake headwall at gage house, 7.06 feet above gage zero. A standard reference tablet in concrete gage post.
ELEVATION: 1318.60 feet (T-3)

GAGE BM 3 (USGS, 1934; Madison County, North Carolina)
Located midway between Big Hurricane and Little Hurricane Creeks, 50 feet west of State Highway 208, and 0.5 miles north of intersection with U. S. Highways 25 and 70, and 3 miles north of Stackhouse, North Carolina, in downstream river side corner of footing under downstream leg of "A" frame for cableway measuring section at gage, on left bank of Big Laurel Creek, 11.38 feet above gage zero. A chiseled circle in footing of cableway "A" frame.
ELEVATION: 1607.06 feet (G-3)

H 58 (USC&GS, 1934; Madison County, North Carolina)
Located 5.6 miles south along State Highway 209 from Hot Springs, about 0.5 miles southwest of the center of a horseshoe curve, midway between two pine trees, a 12-inch tree to the west and a 16-inch tree to the east, and 12 yards north of the center line of the highway. A standard tablet stamped "H 58 1934" and set in concrete monument.
ELEVATION: 2122.712 feet or 647.004 meters (C-2)

H 121 (USC&GS, 1935; Cooke County, Tennessee)
Located 7.3 miles northeast of Wolf Creek, Tennessee, on the property of C. N. Chandler, 12 feet south of Cove Creek road, 9.8 feet west of rail fence corner, 2 feet north of rail fence, 18 feet west of field road, about 600 feet northwest of Joe McChay's house, 34 feet east of the south end of iron pipe under Cove Creek road, and 200 feet southwest of Chandler's house. A standard

tablet stamped "H 121"1935" and set in the top of a concrete post.
 Reference Mark 1: 34 feet N 85° W to center line of south end of
 galvanized iron pipe.
 Reference Mark 2: 9.8 feet S 83° E to fence corner.
 ELEVATION: 1711.719 feet or 521.733 meters (T-2)

H 125 (USCGS, 1935; Madison County, North Carolina)
 Located 8.6 miles northwest of White Rock School, via State Highway 208,
 0.2 miles west of home of John Norton, 26 yards east of telephone pole, 9
 yards south of center line of highway, 3 yards north of brush line, and 1-1/2
 feet above grade of highway. A standard tablet stamped "H 125 1935" and set
 in the top of concrete post.
 ELEVATION: 2026.128 feet or 617.565 meters (C-2)

H 130 (USCGS, 1935; Madison County, North Carolina)
 Located 13.5 miles southwest of Hot Springs, North Carolina, and 1.0
 miles southwest of Joe, North Carolina, 8 feet northwest of Little Creek road,
 15 feet southeast of Charlie Taylor's house, 60 feet northwest of Little Creek,
 21.9 feet southwest of a large boulder, and 25.5 feet northeast of a 10-inch
 apple tree. A standard tablet stamped "H 130 1935" and set in the top of a
 concrete post.
 Reference Mark 1: 25.5 feet S 64° W to 10-inch apple tree.
 Reference Mark 2: 21.9 feet N 49° E to southeast point of boulder.
 ELEVATION: 2930.211 feet or 893.130 meters (T-2)

HOT SPRINGS 1 (USGS, 1934; Madison County, North Carolina)
 Located 0.3 miles north and 0.3 miles east of Trust Post Office.
 To reach signal from Trust, leave car at Trust Post Office and walk southeast
 out road about 250 feet, turn left up steep ridge to station. Total distance
 is about 3/4 mile. A 1-inch drill hole in rock set in place under an 18-inch
 white oak.
 GEODETIC POSITION: Lat. = 35°45'18.951"; Long. = 82°51'49.659" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Sandy Mush	11°29'34.5"	191°28'54.9"	3.932176	5.3
Max Patch	118 55 13.6	298 51 57.4	3.983415	6.0
Doggett	308 40 50.9	128 42 12.9	3.655034	2.8

 GRID POSITION (TENN.): X = 2,930,400.9; Y = 511,145.8 (G-3)
 GRID POSITION (N. C.): X = 893,886.5; Y = 792,100.2 (G-3)
 ELEVATION: 3384 feet (T-5)

HOT SPRINGS 2 (USGS, 1934; Madison County, North Carolina)
 Located 2.2 miles south, 0.9 miles west of Bluff Post Office, on
 a heavily wooded top locally known as Hogback Mountain. To reach from Bluff
 drive south on State Highway 209, 0.8 miles, turn right for 1.3 miles. Leave
 car here and walk through grassy field passing home of E. B. Ebbs, walk up
 main ridge back of Ebbs' house to station, total distance about 1-1/2 miles.
 A 1-inch drill hole in rock set in place under a 24-inch white oak.
 GEODETIC POSITION: Lat. = 35°48'30.910"; Long. = 82°52'31.501" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Bluff	141°49'06.4"	321°48'00.3"	3.661181	2.8
Max Patch	80 17 10.1	260 14 18.3	3.873993	4.6
Trouble	269 53 25.8	89 55 08.2	3.643066	2.7

 GRID POSITION (TENN.): X = 2,926,334.5; Y = 530,434.6 (G-3)
 GRID POSITION (N. C.): X = 851,198.1; Y = 771,628.2 (G-3)

HOT SPRINGS 3 (USGS, 1934; Madison County, North Carolina)
 Located on wooded top about 3 miles southwest of Hot Springs
 and about 2 miles north and west of Bluff Post Office. To reach from Hot
 Springs drive south on State Highway 209 for 2.7 miles to Long Creek. Leave
 car and follow sled road up creek about 1-1/2 miles to house at its source,
 thence northwest along trail about 1/2 mile to high top and station. A
 chiseled cross on rock with 1-inch drill hole in center set in place under a
 22-inch locust tree.
 GEODETIC POSITION: Lat. = 35°51'46.789"; Long. = 82°52'11.066" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Bluff	53°57'56.4"	233°56'38.3"	3.616768	2.6
Cliffy	130 10 35.4	310 09 42.5	4.214208	10.2
Rich	219 21 20.0	39 23 36.3	3.963660	5.7

 GRID POSITION (TENN.): X = 2,927,383.4; Y = 550,283.8 (G-3)
 GRID POSITION (N. C.): X = 893,651.8; Y = 791,352.5 (G-3)
 ELEVATION: 3204 feet (T-5)

HOT SPRINGS 5 (USGS, 1935; Madison County, North Carolina)
 Located on wooded top about 3-1/2 miles northwest of Hot Springs
 and about 1.2 miles south and east of Paint Rock. To reach from Hot Springs
 drive west on Highway 25, 4.1 miles to Shut-In Creek, turn right and go 0.9
 miles, turn left and go 0.4 miles and leave car. Follow trail westerly to top
 of ridge, thence northerly along ridge to station. A 1-inch drill hole in
 rock set in place under an 18-inch hickory tree.
 GEODETIC POSITION: Lat. = 35°54'54.592"; Long. = 82°53'01.031" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Bluff	14°16'29.9"	194°15'41.1"	3.928636	5.3
Chucky 2	173 09 34.9	353 09 10.2	3.946593	5.5
Trouble	336 30 06.9	156 32 06.8	4.110083	8.0

 GRID POSITION (TENN.): X = 2,922,668.4; Y = 569,132.1 (G-3)
 GRID POSITION (N. C.): X = 890,285.0; Y = 810,487.4 (G-3)
 ELEVATION: 2036 feet (T-5)

HOT SPRINGS 6 (USGS, 1934; Greene County, Tennessee)
 Located on wooded top about 2-3 miles northwest of Paint Rock
 and about 1/2 mile west of summit of road crossing Paint Mountain. To reach
 from Hot Springs take road down northeast side of river to Paint Creek and
 turn right and go about 1/4 mile to bridge over Paint Creek, thence left after
 crossing bridge, and go to top of mountain. Leave car and walk westerly along
 trail about 1/2 mile to station. A chiseled triangle on rock with 1-inch drill
 hole in the center, 2 feet north of trail running along ridge, under a 20-inch
 pine tree.
 GEODETIC POSITION: Lat. = 35°58'04.800"; Long. = 82°53'56.065" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Stone	2°53'23.0"	182°53'06.5"	4.149320	8.8
Cliffy	83 42 37.4	263 38 45.9	3.997426	6.2
Rich	298 11 26.5	118 14 44.7	3.982439	6.0

GRID POSITION (TENN.): X = 2,917,534.5; Y = 588,211.2 (G-3)
 ELEVATION: 2586 feet (T-5)

HOT SPRINGS 7 (USGS, 1934; Greene County, Tennessee)
 Located on wooded top about 6.9 miles north of Hot Springs, North
 Carolina, and about 3 miles east and south of Limestone Springs, Tennessee.
 To reach from Limestone Springs, drive east on State Highway 70 to summit of
 road, crossing first mountain. Leave car and follow northerly along ridge to
 top and station. A chiseled cross on rock with 1-inch drill hole in center,
 set in place, under a 20-inch chestnut oak tree.
 GEODETIC POSITION: Lat. = 35°59'39.611"; Long. = 82°48'58.479" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Chucky 2	89°59'06.7"	269°56'19.5"	3.853008	4.4
Camp Creek St. 250	28 25.5	70 31 58.7	3.983915	6.0
Rich	352 20 09.1	172 20 32.6	3.876815	4.7

 GRID POSITION (TENN.): X = 2,941,672.0; Y = 598,578.1 (G-3)
 ELEVATION: 2886 feet (T-5)

HOT SPRINGS 8 (USGS, 1934; Cooke County, Tennessee, Madison County, North Carolina)
 Located on partially open top about 0.8 miles southwest along
 state line from summit of road, crossing Lemon Gap. To reach from Del Rio
 railroad station, drive south on Max Patch road for 13.8 miles to Lemon Gap,
 thence about 1 mile along same road and leave car and walk westerly to station.
 A chiseled triangular shape on rock with 1-inch drill hole in center, set in
 place under a 24-inch yellow birch tree.
 GEODETIC POSITION: Lat. = 35°49'10.779"; Long. = 82°56'55.170" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Max Patch	16°48'40.8"	196°48'23.2"	3.415899	1.6
Bluff	237 53 33.3	57 55 01.5	3.650026	2.8
Trouble	276 17 31.9	96 21 48.5	4.044642	6.9

 GRID POSITION (TENN.): X = 2,904,502.3; Y = 533,778.7 (G-3)
 GRID POSITION (N. C.): X = 829,658.6; Y = 776,511.6 (G-3)

HOT SPRINGS 9 (USGS, 1934; Cooke County, Tennessee)
 Located on wooded top of dividing ridge between Wolf Creek and
 Dry Fork, about 6.4 miles east and south of Del Rio, and about 3.7 miles south
 of junction of Wolf Creek and Frence Broad River. To reach from Del Rio rail-
 road station, take road south for 3.05 miles, turn left up Dry Fork and go
 2-1/2 miles to road fork, leave car and follow wagon road south and east about
 2 miles to house in saddle, thence northerly to first top and station. A
 chiseled cross on rock with 1-inch drill hole in center, set in place directly
 under a 24-inch chestnut oak tree, on west end of top.
 GEODETIC POSITION: Lat. = 35°52'30.140"; Long. = 82°56'36.730" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Stone	112°32'14.1"	292°27'37.9"	4.106721	7.9
Cliffy	147 35 19.3	327 33 02.2	4.038362	6.8
Bluff	318 37 26.6	138 38 44.2	3.701073	3.1

 GRID POSITION (TENN.): X = 2,905,390.8; Y = 553,973.9 (G-3)
 ELEVATION: 3106 feet (T-5)

HOT SPRINGS 10 (USGS, 1934; Cooke County, Tennessee)
 Located on north end of sharp wooded top about 1/2 mile south
 and west of Wolf Creek railroad station. To reach from Hot Springs, drive
 west on Highway 25 to Wolf Creek bridge, leave car and walk southerly to first
 top and station. A chiseled triangle on rock with 1-inch drill hole in center,
 set in place under a 14-inch pine tree.
 GEODETIC POSITION: Lat. = 35°55'10.395"; Long. = 82°56'49.693" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Stone	89°48'18.2"	269°43'49.4"	4.060101	7.1
Cliffy	127 45 15.4	307 43 05.9	3.844749	4.3

 GRID POSITION (TENN.): X = 2,903,819.1; Y = 570,136.4 (G-3)
 ELEVATION: 1802 feet (T-5)

HOT SPRINGS 17 (USGS, 1934; Cooke County, Tennessee)
 Located about 7 miles southeast of Del Rio, Tennessee, on Poor
 Ridge. To reach from Del Rio railroad station, drive southeast on highway for
 2.8 miles to road fork, go left for 2.7 miles to road fork, then left for 12.0
 miles to Max Patch; leave car and take trail west to approximately 2 miles to
 highest point on Poor Ridge. A 3/4 inch drill hole in rock set flush with ground
 under a twin poplar tree, with a hollow base about 4 feet wide with a triangle
 blazed on it.
 GEODETIC POSITION: Lat. = 35°48'18.661"; Long. = 82°58'37.519" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Snowbird	59°58'16.6"	249°55'57.6"	3.803016	3.9
Halltop	113 48 26.4	293 42 35.0	4.216346	10.2
Max Patch	296 02 43.7	116 03 26.0	3.305722	1.3

 GRID POSITION (TENN.): X = 2,896,240.2; Y = 528,250.0 (G-3)
 ELEVATION: 4044 feet (T-5)

HOT SPRINGS 18 (USGS, 1934; Cooke County, Tennessee)
 Located on south end of wooded ridge about 1.3 miles east and
 north of Del Rio Post Office, and about 0.4 miles east and north of Junction
 of Laurel Branch and French Broad River. To reach from Del Rio Post Office,
 drive east and north 0.7 miles to Highway 25, turn right for 1.3 miles, leave
 car and walk northeasterly to station. A 1-inch drill hole in rock set in
 place under a 14-inch hickory tree.
 GEODETIC POSITION: Lat. = 35°55'41.400"; Long. = 82°59'54.933" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Stone	81°41'12.4"	261°38'32.3"	3.839635	4.3
Cliffy	165 02 50.8	345 02 30.0	3.536785	2.1
Bluff	319 21 05.1	139 24 18.9	4.104971	7.9

 GRID POSITION (TENN.): X = 2,888,494.0; Y = 572,798.8 (G-3)

HOT SPRINGS 19 (USGS, 1934; Madison County, North Carolina)
 Located about 3.75 miles west of Marshall, North Carolina, on top
 about 0.75 miles southwest of Bear Creek Gap. To reach from Marshall Court
 House follow U. S. Highway 25 west 1/4 mile to road fork and turn left, leaving
 Highway 25, go 3.3 miles to road fork at west end of bridge over French Broad
 River, follow right hand road for 1.55 miles to road fork, thence go to right
 for 1.0 miles to Gap, continue on foot up ridge to southwest about 3/4 mile

to station. A nail in top of stake driven in ground on north side of a 12-inch hickory tree, about 2 feet from its base.

Reference Mark 1: Spike in east side of tree N 37° E and 7.0 feet from station.

Reference Mark 2: Spike in west side of tree S 37° W and 10.1 feet from station.

GEODETIC POSITION: Lat. = 35°47'54.887"; Long. = 82°45'06.235" (G-3)

To Station	Geodetic Azimuth	Distance	Log. Meters	Miles
Doggett	40°54'45.5"	220°52'11.8"	4.004080	6.3
Boyd	338 43 20.5	158 44 07.3	3.744325	3.4

GRID POSITION (TENN.): X = 2,963,110.6; Y = 527,988.2 (G-3)
 GRID POSITION (N. C.): X = 887,707.1; Y = 766,580.0 (G-3)

HOT SPRINGS 20A (TVA, 1941; Madison County, North Carolina)

Located about 2 miles south of Big Pine and 6 miles southwest of Barnard, on highest point on knob which is on the same ridge as Grassy Land Mountain, and about 1/2 mile north of same, at base of 12-inch dead locust snag at fence corner. To reach from Barnard railway station, drive 0.2 miles across French Broad River to fork, turn right for 7.2 miles on Big Pine Creek road to Big Pine School, turn left 1.1 miles to intersection left, turn left 0.2 miles to intersection, turn right 0.2 miles to intersection of skid trail right at house and end of truck travel. Follow dim trail in southerly direction for 1/2 miles to clearing in sap, turn left up ridge 800 feet to top of knob and station. A 1-by-1-inch angle iron driven flush with ground and un-stamped.

Reference Mark 1: 0.7 feet N 44° W to 12-inch dead locust at fence corner.

Reference Mark 2: 13.9 feet N 35° E to 8-inch burned locust snag on fence line.

Reference Mark 3: 10.35 feet S 10° W to 10-inch locust stump.

GRID POSITION (N. C.): X = 872,415.1; Y = 753,599.8 (T-4)
 ELEVATION: 3907 feet (T-5)

J 58 (USC&GS, 1934; Madison County, North Carolina)

Located 3.2 miles south along State Highway 209 from Hot Springs, between the house and barn the only set of buildings adjacent to the highway along this section, about 17 yards south of a two-story frame house with a brick chimney at the south end, about 7 yards east of the center line of the highway, and about 1 yard east of a fence. A standard tablet stamped "J 58 1934" and set in concrete monument.

ELEVATION: 1811.276 feet or 552.078 meters (C-2)

J 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 6.3 miles north of Wolf Creek, Tennessee, 7 feet south of Cove Creek road, 50.5 feet northeast of L. N. Coghill's house, 120 feet southeast of barn, 14 feet north of wire fence and 65 feet southeast of intersection of Cove Creek road and old road north. A standard tablet stamped "J 121 1935" and set in the west end of south headwall of a large concrete culvert.

Reference Mark 1: 85.8 feet East to 10-inch cherry tree.

Reference Mark 2: 60.5 feet S 13° W to northeast corner of L. N. Coghill's house.

ELEVATION: 1812.614 feet or 552.486 meters (T-2)

J 125 (USC&GS, 1935; Madison County, North Carolina)

Located 7.6 miles northwest of White Rock School, by State Highway 208, 120 yards southwest of home of Richard Melton, 68 yards west of Little Laurel Creek, 14 yards south of center line of highway, and 8 yards southeast of telephone pole. A standard tablet stamped "J 125 1935" and set in the top of a concrete post.

ELEVATION: 1913.539 feet or 583.248 meters (C-2)

J 130 (USC&GS, 1935; Madison County, North Carolina)

Located 14.6 miles southwest of Hot Springs, North Carolina, 2.1 miles southwest of Joe, North Carolina, 9 feet south of Little Creek road, 21.4 feet northwest of M. P. Friesbee's house, 350 feet north of Little Creek, opposite old road to barn, and 6.8 feet east of woodshed. A standard tablet stamped "J 130 1935" and set in the top of a concrete post.

Reference Mark 1: 21.4 feet S 57° E to northeast corner of house.

Reference Mark 2: 6.8 feet N 87° W to northeast corner of woodshed.

ELEVATION: 3323.163 feet or 1012.902 meters (T-2)

K 58 (USC&GS, 1934; Madison County, North Carolina)

Located 1.9 miles south along State Highway 209 from Hot Springs, 0.6 miles south of the second steel bridge south of Hot Springs, about 105 feet south of wooden barn, at a level stretch in the highway, about 3/4 feet east of the center line of the highway, 7 feet south of the center line of an entrance drive, and about 10 feet east of the northwest corner of a fence. A standard tablet stamped "K 58 1934" and set in concrete monument.

ELEVATION: 1493.376 feet or 455.182 meters (C-2)

K 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 3.1 miles northwest of Wolf Creek, Tennessee, on the property of the Houston Valley School, 38 feet northwest of Cove Creek road, 4 feet northeast of house, 10 feet southwest of cornfield, 32 feet east of drain, and 55 feet north of a galvanized iron pipe under Cove Creek road. A standard tablet stamped "K 121 1935" and set in the top of a concrete post.

Reference Mark 1: 4 feet Due South to northeast corner of Houston Valley School.

Reference Mark 2: 25.8 feet N 48° W to 8-inch walnut tree.

ELEVATION: 1784.357 feet or 543.873 meters (T-2)

K 125 (USC&GS, 1935; Madison County, North Carolina)

Located 6.8 miles northwest of school building at White Rock, via State Highway 208, 200 yards southwest of southwest corner of school, and church, 30 yards northeast of center line of lane to home of H. W. Cook, 10 yards northwest of center line of highway, 5 yards southwest of fence corner, 2 yards northeast of fence line, and 1 foot above level of road. A standard tablet stamped "K 125 1935" and set in the top of a concrete post.

ELEVATION: 1848.763 feet or 563.504 meters (C-2)

K 130 (USC&GS, 1935; Madison County, North Carolina)

Located 15.6 miles southwest of Hot Springs, North Carolina, and 3.1 miles southwest of Joe, North Carolina, on U. S. Government property, at intersection of Little Creek road and Poplar Gap Road, 11 feet south of Little Creek road, 35 feet northeast of Little Creek, 58.2 feet south of a large barn, and 150 feet west of Rubin Lowe's house. A standard tablet stamped "K 130 1935" and set in the top of a concrete post.

Reference Mark 1: 20.2 feet S 63° W to 5-inch locust tree.

Reference Mark 2: 58.2 feet N 05° W to southeast corner of barn.

ELEVATION: 3544.196 feet or 1080.273 meters (T-2)

L 58 (USC&GS, 1934; Madison County, North Carolina)

Located at Hot Springs, about 2 blocks west from the Southern Railway station, about 100 yards north of the junction of U. S. Highway 25 and State Highway 209, about 60 yards east of the sidewalk at entrance to the Dorland-Bell School for Girls, about 21 feet west of the cinder walk at the east end of the yard, and at the south edge of a concrete walk. A standard tablet stamped "L 58 1935" and set in concrete monument.

ELEVATION: 1332.478 feet or 406.140 meters (C-2)

L 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 4 miles northwest of Wolf Creek, Tennessee, 20 feet southeast of Cove Creek road, 40 feet east of a road cut, in center of south headwall of concrete culvert over drain and 9 feet below surface of the road. A standard tablet stamped "L 121 1935" and set in the center of south headwall of concrete culvert.

Reference Mark 1: 30 feet N 60° E to 4-inch pine tree.

Reference Mark 2: 23 feet S 63° E to 4-inch poplar.

ELEVATION: 1559.633 feet or 475.377 meters (T-2)

L 125 (USC&GS, 1935; Madison County, North Carolina)

Located 5.5 miles northwest of White Rock School, by State Highway 208, in center of horse shoe curve, approximately 1-1/2 miles northwest of Junction of Highway 208 and Highway 212, 0.1 miles southeast of home of J. B. Thomas, 9 yards west of center line of highway, 2 feet below grade at center line. A standard tablet stamped "L 125 1935" and set in the top of a concrete post.

ELEVATION: 1783.284 feet or 543.546 meters (C-2)

L 130 (USC&GS, 1935; Madison County, North Carolina)

Located 15.7 miles southwest of Hot Springs, North Carolina, at Little Creek Gap, 38 feet east of intersection of State Highway 292 and Little Creek road, 20.1 feet east of a large stump, 20 feet northeast of State Highway 292, and 25 feet southeast of Little Creek road. A standard tablet stamped "L 130 1935" and set in the top of a concrete post.

Reference Mark 1: 20.1 feet N 25° E to large stump.

Reference Mark 2: 4.1 feet S 24° E to triple 2-inch dogwood tree.

ELEVATION: 3797.443 feet or 1157.463 meters (T-2)

LRT 830 (TVA, 1938; Haywood County, North Carolina)

Located 31.1 miles southeast of Newport, Tennessee, 1 mile southeast of Little Creek Gap, 32 feet west of North Carolina State Highway 292, near the Madison-Haywood County line, about 5 feet below level of highway, 10.6 feet northeast of a painted 30-inch red oak tree, and 50 feet southwest of a trail. A standard tablet stamped "LRT 830 1938" and set in concrete post.

Reference Mark 1: 6.0 feet S 25° E to 4-inch poplar tree.

Reference Mark 2: 10.6 feet S 21° W to 30-inch red oak tree.

ELEVATION: 3900.278 feet or 1188.807 meters (T-2)

LRT 831 (TVA, 1938; Haywood County, North Carolina)

Located 31.9 miles southeast of Newport, Tennessee, 16 feet southwest of North Carolina State Highway 292, 12 feet south of southeast corner of small log cabin, 34.5 feet southwest of southwest corner of fence, around old field, about 2 feet below level of highway. A standard tablet stamped "LRT 831 1938" and set in the top of a concrete post.

Reference Mark 1: 8.2 feet N 05° E to southeast corner of log cabin.

Reference Mark 2: 34.5 feet N 67° E to fence corner.

ELEVATION: 4140.431 feet or 1262.006 meters (T-2)

LRT 832 (TVA, 1938; Haywood County, North Carolina)

Located 32.7 miles southeast of Newport, Tennessee, 14 feet south of North Carolina State Highway 292, 225 feet southwest of Whitecok Springs, 175 feet east of Madison County line, and 150 feet southeast of old field. A standard tablet stamped "LRT 832 1938" and set in the top of a concrete post.

Reference Mark 1: 41.2 feet N 42° W to 30-inch chestnut tree.

Reference Mark 2: 39.6 feet N 80° E to 30-inch chestnut stump.

ELEVATION: 4300.703 feet or 1310.857 meters (T-2)

LR 329 (TVA, 1938; Madison County, North Carolina)

Located about 13.8 miles northwest of Marshall, North Carolina. To reach from Marshall, drive west on U. S. Highways 25 and 70, 11.5 miles, turn right on State Highway 208, go 2.3 miles to hollow to left of road, leave car and wade creek at shoals, go 200 feet up old tram road and turn left crossing small branch and going about 1000 feet at about 45° angle (very steep) to top of ridge. Station is 200 feet south of intersection at two ridge lines and forest service wood marker, 90 feet west of tallest pine on side of hill, and 50 feet east from top of ridge. A 1-by-1-inch angle iron.

Reference Mark 1: 4.4 feet N 20° W to 4-inch oak.

Reference Mark 2: 4.7 feet N 75° E to 3-inch oak.

Reference Mark 3: 4.5 feet S 15° W to 2-inch oak.

GEODETIC POSITION: Lat. = 35°55'52.75"; Long. = 82°45'15.67" (T-4)

GRID POSITION (TENN.): X = 2,960,731.5; Y = 576,253.6 (T-4)

GRID POSITION (N. C.): X = 888,757.1; Y = 814,891.8 (T-4)

ELEVATION: 2190 feet (T-5)

LR 330 (TVA, 1938; Madison County, North Carolina)

Located in Northeast portion of Quadrangle 182 northeast. To reach from Marshall, drive west on U. S. Highways 25 and 70 for 11.5 miles, turn right on State Highway 208 and go 3.6 miles, turn left and go 3.2 miles to T-road left, turn left and go 0.3 miles to "Y" in roads and hollows, take left fork follow trail to old house in hollow, then go from house due north 320 feet to high point on ridge sloping south. Angle iron is 25 feet west from two 36-inch pines (largest in vicinity), and 4 feet east of 36-inch dead chestnut log. A 1-by-1-inch angle iron stamped "TVA LR 330 1938".

Reference Mark 1: 3.14 feet South to 15-inch black gum.

Reference Mark 2: 4.38 feet North to 4-inch oak.

Reference Mark 3: 11.8 feet East to 30-inch pine.

GEODETIC POSITION: Lat. = 35°58'29.24"; Long. = 82°45'43.06" (T-4)

GRID POSITION (TENN.): X = 2,957,597.0; Y = 591,993.3 (T-4)

GRID POSITION (N. C.): X = 887,105.9; Y = 830,788.5 (T-4)

ELEVATION: 2433 feet (T-5)

LR 331 (TVA, 1938; Madison County, North Carolina)

Located in southeast portion of Quadrangle 182 northeast. To reach from Marshall, North Carolina, drive west on U. S. Highways 25 and 70, 14.0 miles to top of mountain, turn left and go 2.3 miles to small unpainted church, turn left at church on foot, follow trail about 500 feet as it meanders to third house on trail, from third house go due east about 800 feet going up center of small ridge, to intersection of ridges, angle iron is about 100 feet east from intersection at base of 20-inch oak on ridge line 50 feet from clump of pine trees. A 1- by 1-inch angle iron stamped "TVA LR 331 1938".

Reference Mark 1: 1.95 feet South to 20-inch oak.
Reference Mark 2: 4.65 feet West to 2-inch maple.
Reference Mark 3: 3.2 feet North to 3-inch dogwood.

GEODETIC POSITION: Lat. = 35°54'09.34"; Long. = 82°46'31.48" (T-4)
GRID POSITION (TENN.): X = 2,954,844.6; Y = 565,597.1 (T-4)
GRID POSITION (N. C.): X = 882,129.3; Y = 804,679.7 (T-4)
ELEVATION: 2294 feet (T-5)

LR 333 (TVA, 1938; Madison County, North Carolina)

Located about 2000 feet southwest from Hot Springs, North Carolina. To reach from Hot Springs High School, drive west on U. S. Highways 25 and 70 for 1090 feet to second T-road to right, in front of house of C. L. Stoney, 15 feet east from and on opposite side of road from concrete steps. Angle iron is 3 feet south from north end of rock wall, 35 feet south from T-road intersection, 2 feet east from east edge of highway in edge of grass in shoulder of road. A 1- by 1-inch angle iron stamped "TVA LR 333 1938".

Reference Mark 1: 1.95 feet South to 20-inch oak.
Reference Mark 2: 4.65 feet West to 2-inch maple.
Reference Mark 3: 3.2 feet North to 3-inch dogwood.
GEODETIC POSITION: Lat. = 35°53'35.10"; Long. = 82°50'04.85" (T-4)
GRID POSITION (TENN.): X = 2,937,412.4; Y = 561,563.9 (T-4)
GRID POSITION (N. C.): X = 864,455.2; Y = 801,093.0 (T-4)

LR 334 (TVA, 1938; Madison County, North Carolina)

Located in northeast corner of Quadrangle 182 southeast. To reach from Marshall drive west on U. S. Highways 25 and 70 for 5.7 miles to Walnut, turn left at Walnut going 2.0 miles to Barnard, cross river at Barnard and follow road for 2.2 miles, turn right up steep grade crossing mountain at Bear Wallow Hollow, go 2.3 miles to Doe Branch School, turn left at school and go 0.3 miles, leave car and go north about 300 feet along trail, turn right and go northeast, follow trail 6000 feet along top of ridge to small field about 200 feet square. Angle iron is 75 feet south from north side of field and 83 feet west from east side at edge of cultivation line. A 1- by 1-inch angle iron stamped "TVA LR 334 1938".

Reference Mark 1: 15.31 feet S 50° E to stump.
Reference Mark 2: 5.38 feet N 40° E to stump.
Reference Mark 3: 14.70 feet N 80° W to stump.

GEODETIC POSITION: Lat. = 35°52'20.86"; Long. = 82°46'38.50" (T-4)
GRID POSITION (TENN.): X = 2,954,628.6; Y = 554,614.8 (T-4)
GRID POSITION (N. C.): X = 881,134.9; Y = 793,740.6 (T-4)
ELEVATION: 2052 feet (T-5)

LR 703 (TVA, 1941; Madison County, North Carolina)

Located about 5.4 miles southwest of Marshall. To reach from post office in Marshall, drive northwest on U. S. Highways 70 and 25 for 0.4 miles, turn left on Little Pine road and go 3.3 miles, cross French Broad River and turn right and go 2.1 miles, cross bridge and turn right in front of two-story residence and drive 2.4 miles, leave car and walk west on trail up branch for 3000 feet to top of ridge. Station is under 30-inch oak tree on fence line. A 1- by 1-inch angle iron stamped "TVA LR 703".

Reference Mark 1: 15.75 feet N 55° W to fence post.
Reference Mark 2: 2.1 feet N 17° E to 30-inch oak.
Reference Mark 3: 52.9 feet S 17° E to 18-inch dead locust.

GEODETIC POSITION: Lat. = 35°52'20.86"; Long. = 82°46'38.50" (T-4)
GRID POSITION (N. C.): X = 882,026.6; Y = 755,928.8 (T-4)
ELEVATION: 3014 feet (T-5)

M 58 (USCGS, 1934; Madison County, North Carolina)

Located at Hot Springs, at the two-span steel bridge over French Broad River, in the center of the north end of the concrete pier cap. A standard tablet stamped "M 58 1934".

ELEVATION: 1331.874 feet or 405.956 meters (C-2)

M 65 (TVA, 1938; Cooke County, Tennessee)

Located at intersection of Appalachian Trail and Brown Gap trail. Spike in root of 6-inch peach tree.

ELEVATION: 3498.490 feet or 1066.342 meters (T-2)

M 66 (TVA, 1938; Haywood County, North Carolina)

Located 28 paces east of N 130, 6 paces south of center line of old road, in base of a 10-inch poplar tree, noticeably crooked at base. Spike 1 foot above ground, on inside not facing the road.

ELEVATION: 2938.918 feet or 895.784 meters (T-2)

M 121 (USCGS, 1935; Cooke County, Tennessee)

Located 2.9 miles northwest of Wolf Creek, Tennessee, 8 feet east of Cove Creek road, on the right bank of Cove Creek, 28 feet south of the north end of the east headwall of concrete bridge over Cove Creek, and 42 feet east of wire fence. A standard tablet stamped "M 121 1935".

Reference Mark 1: 40.6 feet S 75° W to a telephone pole.
Reference Mark 2: 93 feet Due North to a fence corner.

ELEVATION: 1291.057 feet or 393.515 meters (T-2)

M 130 (USCGS, 1935; Haywood County, North Carolina)

Located 17.7 miles southwest of Hot Springs, North Carolina, 15 feet northeast of old Cold Springs road, 15 feet southwest of old field road, 27 feet east of a drain, at a sharp curve in old road. A standard tablet stamped "M 130 1935" and set in the top of a concrete post.

Reference Mark 1: 27.6 feet N 55° E to 30-inch white oak.
Reference Mark 2: 49.4 feet S 32° E to 10-inch balsam tree (painted)

ELEVATION: 3389.905 feet or 1032.026 meters (T-2)

MAX PATCH (USCGS, 1933; Madison County, North Carolina)

Located on summit of Max Patch Mountain, about 13-1/2 miles airline and 20 miles by road north of Crabtree Post Office, 17-1/4 miles southeast of Newport, Tennessee, and about 1/4 miles southeast of North Carolina-Tennessee State line. To reach from Canton, go east about 7 or 8 miles on Routes 19 and 23 to junction with Route 209 just east of Lake Junaluska, proceed north 6.4 miles on Route 209 to Crabtree Post Office, continue north 5.8 miles to junction with Route 289 at stone store, turn left onto Route 289, continue 0.7 miles to junction with Route 292 at creek crossing, turn right onto Route

292, follow 11.75 miles to Max Patch Lodge, follow upper left-hand road 0.2 miles, follow toll road to right at sign "Toll Road to Airport", and continue 0.65 miles to summit and station site. Station is in approximate center of cleared space used as landing field. Surface mark is a standard disk triangulation station mark set in the top of a square block or post of concrete. Underground mark is a block of concrete 3 feet below the ground containing at the center of its upper surface a standard disk triangulation station mark.

Reference Marks are standard disk reference marks with the arrows pointing toward the station set at the center of the top of an irregular mass of concrete.

Reference Mark 1 is near flagpole and about 125 yards from station in geodetic azimuth 12°14'13".

Reference Mark 2 is 29.730 meters (84.42 feet) from station in geodetic azimuth 58°00".

Reference Mark 3 is 29.372 meters (83.24 feet) from station in geodetic azimuth 159°11".

GEODETIC POSITION: Lat. = 35°47'40.850"; Long. = 82°57'25.181" (C-1)

Geodetic Azimuth Distance

To Station Azimuth Back Azimuth Log. Meters Miles

Sandywash 332°40'30.27" 152°43'06.65" 4.1663595 9.1

Water Rock 23°56'49.10" 203°50'29.96" 4.6067002 25.1

Guyot 69°30'47.59" 249°20'15.30" 4.4630276 18.0

English 110°36'47.11" 290°24'48.27" 4.5170049 20.4

As ME, R.M. 1 12 14 13.2

GRID POSITION (TENN.): X = 2,902,286.35; Y = 525,523.12 (C-1)

Grid Azimuth to Azimuth Mark, R. M. 1: 10°27'20".

ELEVATION: 4629 feet (T-5)

1184 MC (USGS, 1896; Cooke County, Tennessee)

Located 5.2 miles east along the Southern Railway from station at Del Rio, 1 1/2 miles east of milepost No. 190, 4-1/2 miles east of the east face of highway bridge over the track and French Broad River, 5.6 feet south of south rail, and about level with the base of the rail. Copper bolt set in rock outcrop in a ditch.

ELEVATION: 1182.878 feet or 360.542 meters (C-1)

ME 265 (TVA, 1938; Madison County, North Carolina)

Located on right bank of French Broad River about 3 (airline) miles northwest of Hot Springs. To reach from Hot Springs, go east across French Broad River, turn left at first road across bridge, follow county road 3.3 miles down right bank of river to where river bottom plays out, park car, walk up hollow to right for 300 feet to small hollow left, walk up hollow to left until small backbone ridge is reached, turn southeast along ridge 111 feet to station. A 1- by 1-inch angle iron stamped "ME 265".

GEODETIC POSITION: Lat. = 35°55'24.02"; Long. = 82°51'26.95" (T-4)

GRID POSITION (TENN.): X = 2,930,307.5; Y = 572,353.9 (T-4)

GRID POSITION (N. C.): X = 858,133.3; Y = 813,159.4 (T-4)

ELEVATION: 1560 feet (T-5)

ME 266 (TVA, 1938; Greene County, Tennessee)

Located approximately 5.5 miles (airline) northwest from Hot Springs, North Carolina. To reach from Hot Springs, go east across French Broad River, turn left just across bridge on county road, follow county road down river to where road leaves river, go 300 feet to road fork, take right fork, go 3.1 miles to where road makes a large right bend. Park car and walk up backbone of ridge east to top where top levels off. Station is approximately 50 feet east from where top is reached. A 1- by 1-inch angle iron.

Reference Mark 1: 45.0 feet S 15° E to pine.

Reference Mark 2: 59.5 feet S 60° E to lone 24-inch oak.

Reference Mark 3: 65.3 feet North to 30-inch oak.

GEODETIC POSITION: Lat. = 35°54'28.00"; Long. = 82°54'28.10" (T-4)

GRID POSITION (TENN.): X = 2,929,988.4; Y = 589,279.3 (T-4)

GRID POSITION (N. C.): X = 842,999.0; Y = 807,475.7 (T-4)

ELEVATION: 2187 feet (T-5)

ME 267 (TVA, 1938; Cooke County, Tennessee; Madison County, North Carolina)

Located on Bald Mountain, in southeast portion of Quadrangle 182 northwest on Tennessee-North Carolina State line. To reach from Hot Springs, follow Highway 70 west for 5.0 miles, turn south on trail, follow trail for 0.7 miles to first house, park car and walk west 1000 feet to top of hill in cleared field. Station is 15.0 feet west of lone hickory tree. A 1- by 1-inch angle iron.

Reference Mark 1: 3.9 feet N 75° E to fence post.

Reference Mark 2: 9.5 feet S 20° W to fence post.

GEODETIC POSITION: Lat. = 35°54'28.00"; Long. = 82°54'28.10" (T-4)

GRID POSITION (TENN.): X = 2,915,614.1; Y = 565,611.3 (T-4)

GRID POSITION (N. C.): X = 842,999.0; Y = 807,475.7 (T-4)

ELEVATION: 1785 feet (T-5)

ME 268 (TVA, 1938; Cooke County, Tennessee)

Located in extreme north central part of Quadrangle 182 northwest. To reach from Hot Springs, North Carolina, follow Highway 70 west to where highway crosses river, follow highway for approximately 6.5 miles to gravel road north up creek, follow road up creek for approximately 4.1 miles to road fork, take right fork and follow main road for 4.6 miles to top of large hill where small barn sits on left. Station is on top and near barn. A 1- by 1-inch angle iron stamped "ME 268".

Reference Mark 1: 12.3 feet N 72° W to corner of barn.

Reference Mark 2: 4.0 feet S 75° E to gate post.

Reference Mark 3: 13.0 feet S 34° E to center line of road.

GEODETIC POSITION: Lat. = 35°54'28.00"; Long. = 82°54'28.10" (T-4)

GRID POSITION (TENN.): X = 2,900,540.4; Y = 598,215.3 (T-4)

GRID POSITION (N. C.): X = 842,999.0; Y = 807,475.7 (T-4)

ELEVATION: 1620 feet (T-5)

ME 269 (TVA, 1938; Cooke County, Tennessee)

Located on west edge of west central portion of Quadrangle 182 northwest. To reach station from river bridge on U. S. Highway 70 at Newport, Tennessee, follow U. S. Highway 70 east to bridge over French Broad River, continue on highway for 6.7 miles to where highway straightens for a mile stretch. Park car half way of stretch at house set back from road north 200 feet, walk up trail behind house for 300 feet, take trail to right, follow trail 800 feet to first top on River Ridge. A 1- by 1-inch angle iron stamped "ME 269".

Reference Mark 1: 4.1 feet N 81° E to 4-inch oak stump.

Reference Mark 2: 7.4 feet N 40° W to 10-inch red oak.

Reference Mark 3: 9.6 feet S 25° W to 4-inch white oak.

GEODETIC POSITION: Lat. = 35°54'28.00"; Long. = 82°54'28.10" (T-4)

GRID POSITION (TENN.): X = 2,888,234.5; Y = 572,737.9 (T-4)

GRID POSITION (N. C.): X = 842,999.0; Y = 807,475.7 (T-4)

ELEVATION: 1644 feet (T-5)

ME 271 (TVA, 1938; Cooke County, Tennessee; Madison County, North Carolina)

Located on North Carolina-Tennessee State line in east central part of Quadrangle 182 northwest. To reach from Hot Springs, North Carolina, go west on U. S. Highway 70 to within 1/2 mile of state line, take gravel road right

north for 1250 feet to trail northwest, take trail and go to the last house on trail, park car and walk north 300 feet to barn, take trail east up draw to small field, go north from field to top of hill, station is approximately 100 feet west of trail. A 1- by 1-inch angle iron stamped "ME 271".

Reference Mark 1: 8.1 feet S 77° E to 12-inch oak.
Reference Mark 2: 38.7 feet S 55° W to oak.
Reference Mark 3: 29.8 feet N 19° W to 14-inch oak.
GEODETTIC POSITION: Lat. = 35°55'33.50"; Long. = 82°54'16.82" (T-4)
GRID POSITION (TENN.): X = 2,916,312.7; Y = 572,866.4 (T-4)
GRID POSITION (N. C.): X = 844,210.2; Y = 814,663.0 (T-4)
ELEVATION: 1718 feet (T-5)

ME 272 (TVA, 1938; Cooke County, Tennessee)

Located in east central part of Quadrangle 182 northwest. To reach from Greeneville, Tennessee, take State Highway 70 west where State Highway 70 turns south at junction of Highways 35 and 70, go 9.0 miles to gravel road right, take gravel road for 1 mile, turn left at store, follow main road for 6.5 miles to trail left along base of mountain, take trail 300 feet, park car and walk up trail along ridge for about 1800 feet to top. Station is on extreme top. A 1- by 1-inch angle iron stamped "ME 272".

Reference Mark 1: 13.5 feet N 07° W to 3-inch oak.
Reference Mark 2: 25.2 feet N 57° W to 12-inch oak.
Reference Mark 3: 26.7 feet S 20° W to 6-inch oak.
GRID POSITION (TENN.): X = 2,908,102.1; Y = 584,898.1 (T-4)
ELEVATION: 2222 feet (T-5)

MEADOW (USGS, 1934; Cooke County, Tennessee)

Located on the Meadow Creek Mountain, on the same peak as Meadow Creek Fire Tower cabin, and 2 feet 6 inches from south corner of cabin. The best approach to the station, take the Cape Branch trail leading from the Houston Valley Highway for 1-1/2 miles to its junction with Meadow Creek trail, thence eastward along the trail to the fire cabin. Station is a Class "A" monument, set 3 inches above ground.

Reference Mark 1 is a class "A" monument, 42 feet 7 inches from station, bearing S 51°57' E.
Reference Mark 2 is a Class "A" monument, 45 feet 0 inches from station, bearing S 24°12' W.
Reference Mark 3 is a Class "A" monument, 13 feet 3 inches from station, bearing N 84°13' W.
Reference Mark 4 is corner of fire cabin, 2 feet 8 inches from station, bearing N 25°50' E.
GRID POSITION (TENN.): X = 2,896,246.3; Y = 588,751.5 (T-4)
ELEVATION: 2875 feet (T-5)

MEADOW CREEK F.T. (TVA, 1938; Cooke County, Tennessee)

Located on the Meadow Creek Mountain. The best approach to the station, take the Cape Branch trail leading from the Houston Valley Highway for 1-1/2 miles to its junction with Meadow Creek trail, thence eastward along the trail to the fire tower. Station is the center line of the fire tower.

GRID POSITION (TENN.): X = 2,896,238.5; Y = 588,759.8 (T-4)
ELEVATION (EAVES OF CABIN): 2886 feet (T-5)

MS 177 (TVA, 1938; Greene County, Tennessee)

Located in extreme north central portion of Quadrangle 182 northeast. To reach from Greeneville, Tennessee, drive from courthouse south on Highway 70 (Asheville highway) 15.0 miles to curve in highway and large hollow to north of highway. Leave car and walk 200 yards up hollow, here take faint path to northwest up the east side of slight hollow, follow trail to top of ridge and saddle, turn northeast (or to right) and walk to high point on ridge approximately 450 yards, in woods on top of ridge. A 1- by 1-inch angle iron stamped "MS 177".

Reference Mark 1: 11.40 feet S 40° W to 3-inch oak.
Reference Mark 2: 4.40 feet N 10° W to 4-inch oak.
Reference Mark 3: 5.70 feet S 65° E to 6-inch oak.
GRID POSITION (TENN.): X = 2,944,527.6; Y = 599,975.1 (T-4)
ELEVATION: 2535 feet (T-5)

MS 178 (TVA, 1938; Madison County, North Carolina)

Located in extreme northwest corner of Quadrangle 182 southeast. To reach from Hot Springs, North Carolina from river bridge, drive on U. S. Highways 25 and 70 west 3.8 miles to T-road south, turn south and go 2.3 miles to log road to south, leave car and walk 0.9 miles south along log road to old saw mill site, turn left up large hollow to east, walk up hollow 0.5 miles to fork, take left hand or northeast hollow and climb up same to saddle in ridge and excellent foot path, walk northeast along path 0.5 miles past saddle in ridge, leave path and climb northwest to very highest point on rocky top ridge, on high point of ridge. A chiseled cross in flat rock boulder stamped "MS 178".

Reference Mark 1: 15.30 feet N 35° E to 3-inch oak.
Reference Mark 2: 32.05 feet S 35° E to 18-inch pine.
Reference Mark 3: 16.80 feet S 85° W to 10-inch oak.
GEODETTIC POSITION: Lat. = 35°52'23.95"; Long. = 82°52'18.95" (T-4)
GRID POSITION (TENN.): X = 2,926,615.1; Y = 554,018.3 (T-4)
GRID POSITION (N. C.): X = 853,150.2; Y = 795,132.1 (T-4)
ELEVATION: 2912 feet (T-5)

MS 179 (TVA, 1938; Madison County, North Carolina)

Located in extreme southwest portion of Quadrangle 182 northeast. To reach from Hot Springs, from river bridge, drive on U. S. Highways 25 and 70 west for 3.8 miles to T road south, turn south and go 0.5 miles to T-road west, leave car and climb to top of very high ridge to east, here at north-south fence line, near north edge of woods on grass ridge side is station. A 1- by 1-inch angle iron stamped "MS 179".

Reference Mark 1: 20.70 feet N 80° E to 3-inch locust.
Reference Mark 2: 15.90 feet S 60° E to 3-inch locust.
Reference Mark 3: 9.3 feet S 15° E to 3-inch locust.
GEODETTIC POSITION: Lat. = 35°53'47.94"; Long. = 82°52'08.89" (T-4)
GRID POSITION (TENN.): X = 2,927,170.6; Y = 562,533.4 (T-4)
GRID POSITION (N. C.): X = 854,308.1; Y = 803,586.2 (T-4)
ELEVATION: 1897 feet (T-5)

MS 185 (TVA, 1938; Cooke County, Tennessee)

Located in southwest portion of Quadrangle 182 northwest. To reach from Hot Springs, North Carolina, drive west from river bridge on U. S. Highway 25 and 70 for 9.5 miles to highway bridge across French Broad River, cross river and continue on U. S. Highways 70 and 25 for 4.55 miles to T-road (asphalt) south, turn south and drive 0.25 miles across river, at this point turn east

and drive along road up left bank of French Broad River (parallels railroad track) for 2.4 miles, cross railroad track and drive south up hollow for 1.5 miles keeping to the left at all side roads, leave car and climb north up sled road to cleared field, continue to climb for some 500 yards to northwest corner of said field, here in edge of woods on ridge is station. A 1- by 1-inch angle iron stamped "MS 185".

Reference Mark 1: 20.75 feet N 86° W to 30-inch red oak.
Reference Mark 2: 11.45 feet N 32° W to 24-inch oak.
Reference Mark 3: 14.75 feet N 29° E to 24-inch poplar.
GRID POSITION (TENN.): X = 2,896,000.7; Y = 564,229.8 (T-4)
ELEVATION: 1768 feet (T-5)

MS 187 (TVA, 1938; Cooke County, Tennessee)

Located in northwest corner of Quadrangle 182 southwest. To reach from Newport, Tennessee, drive east on Highways 76 and 70 (Asheville) from post office for 11.35 miles to T-road south across French Broad River, turn south, cross river and go 4.55 miles southeast to T-dirt road east, turn east and drive 0.4 miles to barn. Park car and walk south up sled road to house, thence follow sled road for 350 yards to gap in fence, at center line intersection of field road and east and west fence line. A 1- by 1-inch angle iron stamped "MS 187" and driven 0.3 feet below surface of ground.

Reference Mark 1: 13.38 feet S 05° E to fence post.
Reference Mark 2: 7.86 feet S 88° E to fence post.
Reference Mark 3: 6.29 feet S 89° W to fence post.
GRID POSITION (TENN.): X = 2,896,734.9; Y = 553,394.3 (T-4)
ELEVATION: 1711 feet (T-5)

MS 188 (TVA, 1938; Cooke County, Tennessee)

Located near the Tennessee-North Carolina State line in northeast corner of Quadrangle 182 southwest. To reach from Hot Springs, North Carolina, from river bridge, drive on U. S. Highways 25 and 70 west for 3.8 miles to T-road south, turn south and go 4.0 miles south, turn west across creek and drive along sled road for 1.0 miles to saddle in ridge, leave car and climb up center line of ridge to north to top, walk down wing ridge to northwest for 550 yards to angle in ridge line, on center line of ridge. A 1- by 1-inch angle iron stamped "MS 188" and driven 6 inches above ground.

Reference Mark 1: 15.32 feet N 05° E to 14-inch dead chestnut.
Reference Mark 2: 13.60 feet N 70° E to 10-inch chestnut oak.
Reference Mark 3: 11.85 feet S 65° W to 3-inch oak.
GEODETTIC POSITION: Lat. = 35°52'11.52"; Long. = 82°55'13.87" (T-4)
GRID POSITION (TENN.): X = 2,912,265.5; Y = 552,305.3 (T-4)
GRID POSITION (N. C.): X = 838,715.5; Y = 794,440.8 (T-4)
ELEVATION: 3064 feet (T-5)

MS 190 (TVA, 1938; Cooke County, Tennessee)

Located in south central portion of Quadrangle 182 northwest. To reach from Hot Springs, North Carolina drive west on U. S. Highways 25 and 70 from river bridge across French Broad River for 7.1 miles to Y-road southeast at curve in U. S. Highway 25 and 70, turn southeast on Y dirt road and drive 0.25 miles past Wolf Creek School to T-road south, turn south and go 0.3 miles to Y-road to west across creek, take Y-road and go 0.3 miles to old log road south up ridge to south, leave car and climb to top of ridge, proceed south-west through saddle, turn west and climb to top of highest point of ridge. A 1- by 1-inch angle iron stamped "MS 190" and driven 6 inches above ground.

Reference Mark 1: 6.99 feet N 25° W to 3-inch oak.
Reference Mark 2: 11.27 feet S 55° W to 4-inch oak.
Reference Mark 3: 8.50 feet S 80° E to 14-inch dead chestnut.
GRID POSITION (TENN.): X = 2,910,046.2; Y = 564,773.1 (T-4)
ELEVATION: 1934 feet (T-5)

MS 209 (TVA, 1938; Cooke County, Tennessee)

Located in extreme northwest corner of Quadrangle 182. To reach from Newport, drive east from east city limits for 9 miles along U. S. Highway 70 to Long Creek, take rock road north up Long Creek for 1.0 miles to Y-road northeast, turn northeast and go 2.8 miles to Long Creek Mill, proceed further northeast 0.4 miles to road intersection, continue northeast past intersection for 1.5 miles to bend in road and dirt road south, leave car, climb to top of south edge covered hill to southeast, distance of 650 feet, here on top of ridge west side of old wagon field road is station. A 1- by 1-inch angle iron stamped "MS 209".

GRID POSITION (TENN.): X = 2,890,529.8; Y = 598,371.9 (T-4)
ELEVATION: 1549 feet (T-5)

MS 218 (TVA, 1939; Green County, Tennessee)

Located in extreme northeast corner of Quadrangle 182 southwest. To reach from post office in Greeneville, drive south along State Highway 70 for 12.5 miles to T-road west, turn west and drive southwest for 1.8 miles to T-intersection, turn south and go southwest for 2.2 miles to T-farm road north, turn north and go 0.8 miles to farm house, leave car and climb up leading ridge for some 0.7 miles to top of ridge, on high top of ridge in woods. A 1- by 1-inch angle iron stamped "MS 218".

Reference Mark 1: 7.42 feet S 65° E to 20-inch chestnut oak.
Reference Mark 2: 15.81 feet N 08° E to 20-inch chestnut oak.
Reference Mark 3: 19.38 feet S 70° W to 10-inch chestnut oak.
GRID POSITION (TENN.): X = 2,923,183.5; Y = 599,372.0 (T-4)
ELEVATION: 2903 feet (T-5)

MS 225 (TVA, 1939; Madison County, North Carolina)

Located in northeast portion of Quadrangle 182 southwest. To reach from Hot Springs, drive from river bridge along U. S. Highways 70 and 25 northwest for 3.9 miles to T-road up Shut-In Creek, turn south on T-road and go 3.8 miles southwest along very rough road, leave car on steep dirt mountain road at sharp curve some 800 feet east of saddle, climb north up old log road to top of ridge, turn east and walk along center line of ridge for 1000 feet to high top of ridge, here 30 feet west of highest point on top of ridge is station on center line at state line. A 1- by 1-inch angle iron stamped "MS 225".

Reference Mark 1: 13.70 feet N 05° E to 12-inch chestnut oak.
Reference Mark 2: 5.35 feet S 65° E to 3-inch oak.
Reference Mark 3: 4.07 feet S 60° W to 4-inch double hickory.
GEODETTIC POSITION: Lat. = 35°52'05.70"; Long. = 82°54'45.92" (T-4)
GRID POSITION (TENN.): X = 2,914,583.7; Y = 551,789.6 (T-4)
GRID POSITION (N. C.): X = 840,991.2; Y = 793,762.1 (T-4)
ELEVATION: 3004 feet (T-5)

MS 229 (TVA, 1939; Cooke County, Tennessee)

Located in extreme northwest corner of quadrangle 182 southwest. To reach from Rhea Mims Hotel in Newport, Tennessee, drive east on U. S. Highway 25 and 70 for 11.0 miles to T-road south, turn south past Del Rio and go in

all 3.5 miles to T-road southwest, turn southwest and go 1.95 miles to Y-dirt road south, turn south and go 0.3 miles to second house on east side of road, leave car and walk northeast up hollow some 1000 feet to saddle, turn north, climb to top of ridge along fence line, turn east at fence intersection and walk along fence line to wooded top of ridge, turn north and walk thru saddle along fence line for 800 feet to burned off top of ridge. On side of ridge 50 feet west of top is station. A 1- by 1-inch angle iron stamped "MS 229".

Reference Mark 1: 6.24 feet N 66° W to 3-inch stump.
Reference Mark 2: 12.10 feet N 58° E to 6-inch stump.
Reference Mark 3: 3.84 feet S 20° E to 6-inch stump.

GRID POSITION (TENN.): X = 2,888,855.0; Y = 551,462.0 (T-4)
ELEVATION: 1703 feet (T-5)

MS 230 (TVA, 1939; Madison County, North Carolina)

Located in the west edge of west central portion of Quadrangle 182 southeast. To reach from Hot Springs, North Carolina, go south on State Highway 209 for 5.5 miles to Bluff Post Office, proceed from this point along State Highway 209 for 0.6 miles to T-road southwest, turn southwest and go 1.0 miles to Y-dirt road southwest, proceed along dirt road for 0.5 miles to house at west end of hollow, leave car and follow steep road for 0.7 miles south to barn in cleared pocket, climb south up ridge for 1100 feet to saddle, walk 100 feet east to center line of saddle, just south of center line of ridge is station. A 1- by 1-inch angle iron stamped "MS 230".

Reference Mark 1: 9.30 feet S 35° W to 3-inch locust.
Reference Mark 2: 6.25 feet S 70° E to 36-inch oak.
Reference Mark 3: 3.62 feet N 80° W to 3-inch locust.

GEODETIC POSITION: Lat. = 35°48'31.58"; Long. = 82°52'22.53" (T-4)
GRID POSITION (TENN.): X = 2,927,071.2; Y = 530,526.3 (T-4)
GRID POSITION (N. C.): X = 851,939.4; Y = 771,667.4 (T-4)
ELEVATION: 3132 feet (T-5)

MS 231 (TVA, 1939; Madison County, North Carolina)

Located in the west central portion of Quadrangle 182 southwest. To reach from Rhea Mims Hotel, Newport, Tennessee, drive east on U. S. Highway 70 and 25 for 11.0 miles to T-road south to Del Rio, turn south and follow Max Patch Mountain Road for 16.0 miles to sharp curve, take Y-field road thru gate up ridge for 0.2 miles to clear grassy saddle, leave car and walk west across fence for 170 feet. Here on grassy ridge slope is station. A 1- by 1-inch angle iron stamped "MS 231".

Reference Mark 1: 42.15 feet N 50° W to corner fence post.
Reference Mark 2: 44.33 feet N 06° W to 16-inch maple.
Reference Mark 3: 63.58 feet S 05° E to 24-inch dead chestnut snag.

GEODETIC POSITION: Lat. = 35°48'57.67"; Long. = 82°57'02.96" (T-4)
GRID POSITION (TENN.): X = 2,903,934.9; Y = 538,434.9 (T-4)
GRID POSITION (N. C.): X = 828,997.3; Y = 775,211.5 (T-4)
ELEVATION: 4154 feet (T-5)

MS 232 (TVA, 1939; Cooke County, Tennessee)

Located in the west central portion of Quadrangle 182 southwest. To reach from Rhea Mims Hotel, Newport, Tennessee, drive east on U. S. Highway 70 and 25 for 11.0 miles to T-road to Del Rio, turn south on T-road and go on gravel highway across Max Patch Mountain for 14.0 miles to Y-road south into toe of Laurel Mountain, turn south and go 0.8 miles south of Bomber Church, take Y-road southwest thru gap in fence and follow for 0.6 miles thru barn lot to old house, leave car and walk along old road going up mountain in northwest direction for 0.5 miles to second old house. From this point take trail up ridge in west direction thru clear grassy plot to center line of ridge and good trail, turn northwest and follow trail along center line of ridge to high point on top. A 1- by 1-inch angle iron stamped "MS 232".

Reference Mark 1: 3.42 feet N 80° W to 10-inch oak.
Reference Mark 2: 4.47 feet N 15° W to 12-inch pine snag.
Reference Mark 3: 22.60 feet S 50° E to 14-inch oak.

GRID POSITION (TENN.): X = 2,893,520.8; Y = 534,046.2 (T-4)
ELEVATION: 4231 feet (T-5)

MS 233 (TVA, 1939; Cooke County, Tennessee)

Located in west central portion of Quadrangle 182 southwest. To reach from Rhea Mims Hotel in Newport, drive east on U. S. Highways 70 and 25 for 11.0 miles to T-road to Del Rio, turn south on T-road and go on gravel highway across Max Patch Mountain for 14.0 miles to Y-road south into toe of Laurel Mountain, turn south and go 0.8 miles south to Bomber Church, take Y-road southwest thru gap in fence and follow for 0.6 miles thru barn lot to old house, leave car and walk along old road going up mountain in northwest direction for 0.5 miles to second old house. From this point take trail up ridge in west direction thru clear grassy plot to center line of ridge and good trail, turn northwest and follow trail along center line of ridge to top, proceed down ridge along trail for 2000 feet to point some 300 feet southeast of saddle. Here just south of trail is station. A 1- by 1-inch angle iron stamped "MS 233".

Reference Mark 1: 3.91 feet S 38° E to chestnut stump.
Reference Mark 2: 6.98 feet N 32° W to 6-inch dead chestnut.
Reference Mark 3: 18.33 feet S 63° E to 14-inch dead chestnut.

GRID POSITION (TENN.): X = 2,894,570.1; Y = 533,317.0 (T-4)
ELEVATION: 4340 feet (T-5)

MS 234 (TVA, 1939; Haywood County, North Carolina)

Located in southwest portion of Quadrangle 182 southwest. To reach from Rhea Mims Hotel drive east along U. S. Highways 70 and 25 for 11.0 miles to T-road south of Del Rio, turn south and go along Max Patch Mountain road for 19.0 miles to saddle and T-road (CCC built road with barrier) southwest, turn southwest and drive 2.0 miles to CCC camp, leave car and climb up to top of ridge to south. Here on extreme southwest end of ridge is station. A 1- by 1-inch angle iron stamped "MS 234".

Reference Mark 1: 6.83 feet N 35° W to 3-inch maple.
Reference Mark 2: 6.26 feet S 18° E to 2-inch maple.
Reference Mark 3: 5.61 feet N 78° E to 3-inch oak.

GEODETIC POSITION: Lat. = 35°45'07.10"; Long. = 82°58'48.93" (T-4)
GRID POSITION (TENN.): X = 2,895,898.4; Y = 508,861.0 (T-4)
GRID POSITION (N. C.): X = 819,310.1; Y = 752,267.4 (T-4)
ELEVATION: 3581 feet (T-5)

MS 235 (TVA, 1939; Madison County, North Carolina)

Located in the southeast portion of Quadrangle 182 southwest. To reach from Hot Springs, North Carolina, drive south from river bridge for 11.4 miles to T-road west, turn west and go 0.5 miles to Y-road southwest, turn on side road and go 1.5 miles south up rough hollow, leave car at saw mill site and follow trail on foot for 0.6 miles to clearing and cleared hollow to northwest, climb up hollow to cleared grass and briar covered top of ridge, from here walk southwest thru slight saddle along center line of ridge to

northeast end of woods strip. A 1- by 1-inch angle iron stamped "MS 235".

Reference Mark 1: 4.80 feet S 38° E to 8-inch maple.
Reference Mark 2: 14.44 feet S 22° W to 10-inch snag.
Reference Mark 3: 7.50 feet N 75° E to 12-inch locust.

GEODETIC POSITION: Lat. = 35°45'11.93"; Long. = 82°54'29.30" (T-4)
GRID POSITION (TENN.): X = 2,917,272.5; Y = 510,017.4 (T-4)
GRID POSITION (N. C.): X = 840,711.6; Y = 751,905.6 (T-4)
ELEVATION: 4206 feet (T-5)

MS 237 (TVA, 1939; Cooke County, Tennessee)

Located on the west end of Poor Ridge in west central portion of Quadrangle 182 southwest. To reach from Rhea Mims Hotel, Newport, Tennessee, drive east on U. S. Highway 70 and 25 for 11.0 miles to T-road south at Del Rio, turn south and go 17.5 miles along Max Patch Mountain road to saddle on State line, leave car and take Poor Ridge trail northwest, walking 1.1 miles to high point on ridge at triangulation station Hot Springs 17, proceed west along ridge following dim trail along center line of ridge for 3000 feet, turn south on wing ridge and go 500 feet to alight top on ridge. A 1- by 1-inch angle iron stamped "MS 237".

Reference Mark 1: 6.39 feet N 30° W to 4-inch oak.
Reference Mark 2: 7.45 feet S 75° E to 4-inch oak.
Reference Mark 3: 6.96 feet S 08° W to 2-inch maple.

GRID POSITION (TENN.): X = 2,892,323.2; Y = 528,369.1 (T-4)
ELEVATION: 3510 feet (T-5)

MS 698 (TVA, 1941; Madison County, North Carolina)

Located in east central portion of Quadrangle 182 southeast, 1.6 miles (airline) south of Barnard Station and 4.4 miles (airline) west of Marshall Courthouse. To reach from Marshall, North Carolina Courthouse, drive northwest on U. S. Highway 70 for 6.2 miles to T-intersection at top of hill at Walnut, North Carolina, turn left onto T-road, passing through Walnut and continuing to Barnard, North Carolina, in all 2.0 miles, cross river bridge at Barnard following road to right or east for 3.65 miles to right curve in road and T-aled road left that winds up creek, park car and walk along sled road east 2000 feet to south edge of wood and hairpin turn left in sled road, turn left and walk northeast through woods and along north edge of woods past house and barn and taking center line of clear ridge near head of hollow, climb up same just north of north-south woods line to top of ridge and small patch of timber, in all approximately 3000 feet, turn right on center line of ridge and walk south 500 feet to point on fence line 100 feet north of two lone trees, 1.5 feet east of fence line on high south end of clear ridge top. A 1- by 1-inch angle iron stamped "MS 698" standing 6 inches above ground.

Reference Mark 1: 8.45 feet S 25° W to tack infence post.
Reference Mark 2: 12.16 feet N 12° E to tack in fence post.
Reference Mark 3: 1.43 feet N 63° W to tack in fence post.

GRID POSITION (N. C.): X = 883,401.3; Y = 772,280.4 (T-4)
ELEVATION: 2952 feet (T-5)

MS 699 (TVA, 1941; Madison County, North Carolina)

Located in northeast corner of Quadrangle 182 southeast, on Gladden Ridge, 1.1 miles west of French Broad Road (airline). To reach from courthouse in Marshall, North Carolina, drive northwest on U. S. Highway, follow T-road left through Walnut to Barnard, North Carolina, in all 2.0 miles cross river bridge of Barnard keeping on road to right and drive 2.15 miles to T-road right up wooded ridge, turn right and drive northwest up steep grade for 0.35 miles to T-road right, turn right and drive northeast along road past Doe Branch School, at which point keep to right continuing down Doe Branch north, crossing same first by ford, then twice by means of two timber bridges 200 feet apart, finally parking car at T-road northwest at spot used for loading logs and acid wood, in all a distance of 2.7 miles, proceed on foot along T-road northwest 1000 feet to house in hollow, follow road 1200 feet to second vacant house, continue passing barn for 900 feet, turn right and walk north up ridge to woods and center line of ridge, cross small wooded hollow containing north over nose of ridge to second hollow, some 500 feet, cross same to path on north side, turn right on path and walk east 500 feet to center line of ridge, turn left and walk west along center line of ridge, following foot path along ridge for 700 feet to lone 12-inch pine 10 feet north of path, here 26 feet north of said 12-inch pine and 10 feet north and 20 feet east from second 8-inch lone pine in small opening near top of ridge, just south of center line of ridge is station. A 1- by 1-inch angle iron driven with 3-inch protruding above ground.

Reference Mark 1: 10.14 feet S 20° W to tack in 8-inch pine.
Reference Mark 2: 14.65 feet N 41° E to tack in 4-inch partly dead dogwood.
Reference Mark 3: 16.99 feet N 75° E to tack in 8-inch chestnut oak.

GRID POSITION (TENN.): X = 876,751.4; Y = 790,846.4 (T-4)
ELEVATION: 2311 feet (T-5)

MS 700 (TVA, 1941; Madison County, North Carolina)

Located in extreme north central portion of Quadrangle 182 southeast. To reach from Hot Springs, North Carolina, drive from railroad depot southwest for 0.2 miles to intersection of State Highway 209 and U. S. Highway 25, take State Highway 209 and drive south for 0.55 miles, park car at turn in highway, walk southeast from road down to creek, cross creek and take trail southeast up ridge, following right-of-way of Carolina Power and Light Transmission Line for 4000 feet to saddle in ridge, turn right off trail and walk northwest along center line of wooded ridge for 1200 feet to top on west end of ridge, in cleared spot on ridge, approximately 80 feet north and 75 feet west from old location of Hot Springs 4. A 1- by 1-inch angle iron.

Reference Mark 1: 21.93 feet S 33° E to tack in 16-inch chestnut oak.
Reference Mark 2: 21.84 feet N 45° E to tack in 12-inch chestnut oak.
Reference Mark 3: 12.30 feet N 40° W to tack in dead side of 18-inch chestnut oak.

GRID POSITION (N. C.): X = 866,273.0; Y = 794,972.0 (T-4)
ELEVATION: 2438 feet (T-5)

N 27 (TVA, 1937; Cooke County, Tennessee)

Located at mile 98.8, on French Broad River, on right bank of river, in root at northeast side of 30-inch walnut, 30 feet southeast of former home of Isaac McGaha (only house between mouth of Brush Creek and Weaver Bend), 1 mile below Weaver Bend. Nail and Washer.
ELEVATION: 1217.08 feet (T-3)

N 28 (TVA, 1937; Madison County, North Carolina)

Located at mile 106.5 of French Broad River, on right bank of river, at front of Freshour home, 2 miles below Hot Springs, North Carolina. Top of large rock 4 feet from southwest corner of fence.
ELEVATION: 1299.76 feet (T-3)

N 29 (TVA, 1937; Madison County, North Carolina)

Located at mile 108, French Broad River, on right bank of river, on north side at end of walk to house of J. C. Sanders, at right end of Hot Springs Bridge. Northwest corner of large granite stone.
ELEVATION: 1329.30 feet (T-3)

N 32 (TVA, 1937; Madison County, North Carolina)

Located at mile 109.1, French Broad River, on right bank of river, at Hot Spring stream gage. Chiseled point in corner of third step from bottom of concrete steps to recorder house.
ELEVATION: 1325.30 feet (T-3)

N 58 (USC&GS, 1934; Madison County, North Carolina)

Located about 1.2 miles east along U. S. Highway 25 from the bridge over French Broad River at Hot Springs, about 1/3 of the way up the west side of the mountain, at the center of a curve where the old cuts closer to the side of the mountain, and about 10 yards north of the center line of the highway. A standard tablet stamped "N 58 1934" and set in the top of a concrete post.
ELEVATION: 1682.198 feet or 512.735 meters (C-2)

N 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 2.1 miles west of Wolf Creek, Tennessee, 20.2 feet southeast of U. S. Highways 25 and 70, 30.2 feet west of a large barn, 16 feet north of telephone pole No. 7, 250 feet northeast of intersection of Highways 25 and 70 and Cove Creek road, 6 feet south of field road leading to Mrs. Nellie R. Boyer's house, and 4 feet east of wire fence. A standard tablet stamped "N 121 1935" and set in top of concrete monument.

Reference Mark 1: 30.2 feet S 53° E to southwest corner of barn.
Reference Mark 2: 20.2 feet N 50° W to edge of Highways 25 and 70 at south end of field road.

ELEVATION: 1175.145 feet or 358.185 meters (T-2)

N 125 (USC&GS, 1935; Cooke County, Tennessee)

Located 15.4 miles southeast of Newport, Tennessee, 3.8 miles southeast of Del Rio, Tennessee, 40 feet southwest of Jonestown road, 105 feet north of J. Jones' house, 50 feet north of Granny Branch, 37 feet southeast of barn, and 30.4 feet southwest of the northeast corner of barn yard fence. A standard tablet stamped "N 125 1935" and set in the top of a concrete post.

Reference Mark 1: 37 feet N 72° W to southeast corner of barn.
Reference Mark 2: 30.4 feet N 12° E to northeast corner of barn yard fence.

ELEVATION: 1329.512 feet or 405.236 meters (T-2)

N 130 (USC&GS, 1935; Haywood County, North Carolina)

Located 18.6 miles southwest of Hot Springs, North Carolina, 25 feet northwest of old Cold Springs road, 75 feet northwest of Cold Springs Creek, 250 feet southeast of new Cold Springs road, 7 feet southeast of fence, 11.5 feet east of 10-inch ash tree, and 18 feet northeast of Cherry Creek. Standard tablet stamped "N 130 1935" and set in the top of a concrete post.

Reference Mark 1: 11.5 feet S 80° W to 10-inch ash tree.
Reference Mark 2: 13.9 feet N 40° E to painted fence post.

ELEVATION: 2937.350 feet or 895.306 meters (T-2)

P 40 (TVA, 1938; Madison County, North Carolina)

Located 1.0 miles southwest of Roaring Fork School, on Meadow Fork Creek, and 6 feet northwest of center line of road. High point on rock at base of cut, painted "TBM P 40".

ELEVATION: 2442.954 feet or 744.614 meters (T-2)

P 41 (TVA, 1938; Madison County, North Carolina)

Located 2.0 miles south of Max Patch Mountain, at Y-road intersection, 20 feet east of intersection. Bolt in top of Forest Service Sign, painted "TBM P 41".

ELEVATION: 3769.061 feet or 1148.812 meters (T-2)

P 42 (TVA, 1938; Madison County, North Carolina)

Located approximately 0.5 miles southeast of Tennessee State line, approximately 1000 feet south of Lemon Gap on east side of old mountain road leading up. Point not described, painted "TBM P 42".

ELEVATION: 3439.327 feet or 1048.309 meters (T-2)

P 43 (TVA, 1938; Cooke County, Tennessee)

Located approximately 5.0 miles north of Max Patch Mountain, 33 feet east of Tennessee and North Carolina State line. Nail driven in northernmost short post of Forest sign.

ELEVATION: 3536.660 feet or 1077.976 meters (T-2)

P 58 (USC&GS, 1934; Madison County, North Carolina)

Located about 2.2 miles east along U. S. Highway 25, from Hot Springs, on a curve at a wide part of the Highway 25; about 21 yards west of the west end of a guard fence on the south side of the highway, about 18 yards east of a pole, and about 16 yards south of the center line of the highway. A standard tablet stamped "P 58 1934" and set in the top of a concrete post.

ELEVATION: 1934.511 feet or 589.640 meters (C-2)

P 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 5.1 miles east along Southern Railway from station at Del Rio, 22 yards south of southeast end of highway bridge over French Broad River, 15 yards west of center line of U. S. Highway 70, 5 yards west of center line of side road. A standard tablet stamped "P 121 1935" and set in the top of a concrete post, projecting about 6 inches above ground.

ELEVATION: 1218.105 feet or 371.279 meters (C-1)

P 125 (USC&GS, 1935; Cooke County, Tennessee)

Located 16.3 miles southeast of Newport, Tennessee, 4.7 miles southeast of Del Rio, Tennessee, on the property of Jim Self, 40 feet east of Jonestown road, 200 feet southwest of large barn, 125 feet northwest of a barn, 70 feet east of Bailey Branch, 25 feet east of wire fence, 2 feet west of 12-inch poplar tree, 39.9 feet southwest of 20-inch beech tree. A standard tablet stamped "P 125 1935" and set in the top of rock outcrop.

Reference Mark 1: 39.9 feet N 10° E to 20-inch beech tree.
Reference Mark 2: 32.5 feet S 40° E to northwest corner of crib.

ELEVATION: 1514.679 feet or 461.675 meters (T-2)

P 126 X (USC&GS, 1935; Madison County, North Carolina)

Located 3.3 miles southeast along the Southern Railway from the station

at Hot Springs, about 30 yards east of the east end of the railway bridge 175.8 over Laurel River, 15 feet north of the north rail, and about 2 feet higher than the rail. A standard tablet stamped "P 126 X 1935" and set in the top of a concrete post, projecting about 8 inches above the ground.

ELEVATION: 1402.491 feet or 427.480 meters (C-1)

P 130 (USC&GS, 1935; Haywood County, North Carolina)

Located 19.6 miles southwest of Hot Springs, North Carolina, on south side of old Brown Gap road, 300 feet south of CCC gravel road, 32 feet south of Cold Springs Creek, 1 foot north of wire fence, 1000 feet northwest of CCC Camp, 1000 feet southwest of settlement known as the Farm, and 50 feet southeast of intersection of old Brown Gap road and Cold Springs road. A standard tablet stamped "P 130 1935" and set in concrete post.

ELEVATION: 2775.178 feet or 845.876 meters (T-2)

Q 58 (USC&GS, 1934; Madison County, North Carolina)

Located about 3.4 miles east along U. S. Highway 25 from the bridge over the French Broad River at Hot Springs, at the end of a deep cut, about 5 yards west of the center line of a T-road leading south, about 12 yards south of the center line of the highway, and about 2 yards west of a yellow poplar tree. A standard tablet stamped "Q 58 1934" and set in the top of a concrete post.

ELEVATION: 2277.699 feet or 694.244 meters (C-2)

Q 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 9.9 miles east along Southern Railway from the station at Del Rio, about 11 yards west of the Tennessee-North Carolina State line, about 6 yards east of small spring, 6 feet west of west rail, 6 inches below top of rail. A standard tablet stamped "Q 121 1935" and set in the top of a boulder.

ELEVATION: 1253.793 feet or 382.157 meters (C-1)

Q 125 (USC&GS, 1935; Cooke County, Tennessee)

Located 17.7 miles southeast of Newport, Tennessee, 6.0 miles southeast of Del Rio, Tennessee, 6 feet north of Round Mountain road, 0.3 miles east of intersection of Jonestown road and Round Mountain road, at center of curve in road, 3 feet north of wire fence, 200 feet east of a 11-inch oak tree with BM painted on it. A standard tablet stamped "Q 125 1935" and set in the top of a concrete post.

Reference Mark 1: 7.3 feet N 13° W to 3-inch hickory.
Reference Mark 2: 18.7 feet N 76° E to 3-inch persimmon.

ELEVATION: 1769.137 feet or 539.234 meters (T-2)

Q 126 X (USC&GS, 1935; Madison County, North Carolina)

Located 2.8 miles southeast along the Southern Railway from the station at Hot Springs, 470 yards west of milepost No. 176, in the top of rock ledge on the side of rock cut at curve in railway, 11.8 feet north of the north rail, and 3 feet above the rails. A standard tablet stamped "Q 126 X 1935".

ELEVATION: 1390.663 feet or 423.875 meters (C-1)

Q 130 (USC&GS, 1935; Haywood County, North Carolina)

Located 15.7 miles southeast of Hartford, Tennessee, on the property of the Champion Fiber Company, about 0.7 miles south of Brown Gap, 7 feet east of Brown Gap road, on west side of 8-inch white oak tree, and 15 feet north of base of large tree that has fallen to ground. A standard tablet stamped "Q 130 1935" and set vertically in 8-inch white oak tree, 2 feet above the ground.

Reference Mark 1: 17.8 feet Due West to 3-inch oak tree.
Reference Mark 2: 19.3 feet N 40° W to 5-inch maple tree.

ELEVATION: 3186.611 feet or 971.281 meters (T-2)

R 58 (USC&GS, 1934; Madison County, North Carolina)

Located about 4.6 miles east along U. S. Highway 25 from the bridge over the French Broad River at Hot Springs, about 1.1 miles west of the junction of State Highway 208, at bridge over Big Laurel Creek, at a wide part of the highway, about 19 yards east of the center line of the highway, about 11 yards north of a pole, and about 3 yards west of the edge of a bank. A standard tablet stamped "R 58 1934" and set in the top of a concrete post.

ELEVATION: 1875.252 feet or 571.578 meters (C-2)

R 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 9.1 miles east along the Southern Railway from the station at Del Rio, 14 feet north of milepost No. 186, at bridge 1860 over French Broad River, in the top of the west back wall of the south abutment, 4 feet west of the west rail, and about 1/2 foot lower than the top of the rail. A standard tablet stamped "R 121 1935".

ELEVATION: 1249.965 feet or 380.990 meters (C-1)

R 125 (USC&GS, 1935; Cooke County, Tennessee)

Located 18.2 miles southeast of Newport, Tennessee, 6.6 miles southeast of Del Rio, Tennessee, 8 feet southeast of Round Mountain road, 160 feet south of hairpin curve and old road leading up hollow, on top of east end of boulder 2 feet above road. A standard tablet stamped "R 125 1935" and set in rock outcrop.

ELEVATION: 2042.509 feet or 622.598 meters (T-2)

R 130 (USC&GS, 1935; Madison County, North Carolina)

Located 25.4 miles southeast of Newport, Tennessee, 13.8 miles southeast of Del Rio, Tennessee, in the Pisgah National Forest, 800 feet southwest of intersection of State Highway 292 and Appalachian Trail, 0.2 miles southwest of state line, 23 feet northeast of North Carolina State Highway 292, at a horseshoe bend in highway, and east of a 14-inch chestnut oak tree. A standard tablet stamped "R 130 1935" and set in the top of a concrete post.

Reference Mark 1: 16.4 feet N 78° W to 14-inch chestnut oak tree.
Reference Mark 2: 15.4 feet N 51° E to 3-inch locust tree.

ELEVATION: 3590.449 feet or 1094.371 meters (T-2)

RICH (USGS, 1934; Greene County, Tennessee, Madison County, North Carolina)

Located on a knob known as Rich Mountain, at the center of Rich Mountain Fire Tower. The best approach to the station is to drive up easterly along State Route 70, about 3-1/4 miles from Hot Springs, North Carolina to Tanyard Gap at the junction of the Rich Mountain trail, thence northerly along said trail about 2 miles to the station. A class "A" monument set with top 3 inches above ground.

Reference Mark 1 is a class "A" marker set in the top of corner foundation of Rich Mountain Fire Tower, with arrow pointing toward the station, 13.0 feet from station in geodetic azimuth 87°31'.

Reference Mark 2 is a class "A" marker set in the top of corner foundation of Rich Fire Tower with arrow pointing toward station, 12 feet 1 inch from station in geodetic azimuth 189°58'.

Reference Mark 3 is a class "A" marker set in the top of corner foundation of Rich Fire Tower with arrow pointing toward station, 11 feet 6 inches from station in geodetic azimuth 279°33'.

Reference Mark 4 is a class "A" marker set in the top of corner foundation of Rich Fire Tower with arrow pointing toward station, 11 feet 6 inches from station in geodetic azimuth 10°06'.

GEODETIC POSITION: Lat. = 35°55'37.466"; Long. = 82°48'18.418" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Trouble	8°28'32.7"	188°27'47.1"	4.123338	8.3
Sugar	251 56 26.3	72 03 21.7	4.270545	11.6
Walnut	302 12 21.2	122 16 26.5	4.093469	7.7

GRID POSITION (TENN.): X = 2,945,761.3; Y = 574,214.3 (G-3)

GRID POSITION (N. C.): X = 873,680.1; Y = 813,919.3 (G-3)

ELEVATION (STATION): 3670 feet (T-5)

ELEVATION (RAVES OF FIRE TOWER): 3708 feet (T-5)

ROUND MOUNTAIN F.T. (TVA, 1938; Cooke County, Tennessee)

Located 21.3 miles southeast of Newport, about 9 miles southeast of Del Rio, on top of Round Mountain, near intersection with an east-west ridge. Station is center line of fire tower.

GRID POSITION (TENN.): X = 2,901,179.1; Y = 544,463.2 (T-4)

ELEVATION (RAVES): 4369 feet (T-5)

RV 101 (USC&GS, 1935; Cooke County, Tennessee)

Located 5.9 miles west along the Southern Railway from the station at Del Rio, set in north end of west abutment of bridge 189.1 over Wolf Creek, 8 rails west of milepost No. 189, 3 feet north of north rail, and 6 inches below top of rail. Monel metal rivet.

ELEVATION: 1192.025 feet or 363.330 meters (C-1)

RV 102 (USC&GS, 1935; Cooke County, Tennessee)

Located 3.9 miles east along Southern Railway from station at Del Rio, in base of signal 191.1, 21 rails south of milepost No. 191, 6 feet west of west rail, and 6 inches below top of rail. Monel metal rivet.

ELEVATION: 1171.950 feet or 357.211 meters (C-1)

RV 103 (USC&GS, 1935; Cooke County, Tennessee)

Located 2.0 miles east along Southern Railway from station at Del Rio, in base of signal 193.1, 0.2 miles west of milepost 193, 6 feet north of north rail, and 6 inches below top of rail. Monel metal rivet.

ELEVATION: 1151.550 feet or 350.993 meters (C-1)

RV 660 (USC&GS, 1935; Madison County, North Carolina)

Located 4.2 miles southeast along the Southern Railway from the station at Hot Springs, about 35 yards southwest of the road crossing at Stackhouse, about 9 yards northeast of the northeast end of the bridge 174.8, over small stream, on the south corner of the concrete foundation of semaphore 174.8, 6.5 feet northwest of the northwest rail. A monel metal rivet.

ELEVATION: 1418.363 feet or 432.318 meters (C-1)

RV 661 (USC&GS, 1935; Madison County, North Carolina)

Located 1.6 miles southeast along the Southern Railway from the station at Hot Springs, 0.65 miles east of the bridge over French Broad River, on the top of the northeast corner of the concrete foundation of semaphore 177.4, 6.4 feet south of the south rail, 6 inches lower than the base of the rail. A monel metal rivet.

ELEVATION: 1367.307 feet or 416.756 meters (C-1)

RV 662 (USC&GS, 1935; Madison County, North Carolina)

Located 2.0 miles northwest along the Southern Railway from the station at Hot Springs, 12 rails northwest of Shalville, in the top of the southeast end of southwest headwall of concrete headwall, 16 rails northwest of milepost No. 181, 3 feet southwest of southwest rail, 6 inches lower than the top of rail. Monel metal rivet.

ELEVATION: 1314.400 feet or 400.630 meters (C-1)

RV 663 (USC&GS, 1935; Madison County, North Carolina)

Located about 1.5 miles southeast along the Southern Railway from the station at Paint Rock, in the top of the south end of west abutment of bridge 182.7 over Shut-In Creek, 3 feet south of south rail, 6 inches below top of rail. Monel metal rivet.

ELEVATION: 1286.927 feet or 392.256 meters (C-1)

RV 664 (USC&GS, 1935; Madison County, North Carolina)

Located at Paint Rock, about 7 rails southeast of the Southern Railway station, in the top of the southeast end of the back wall of the northwest abutment of bridge 184.3 over Grass Creek, 3 feet southwest of southwest rail 6 inches below top of rail. A monel metal rivet.

ELEVATION: 1269.414 feet or 385.699 meters (C-1)

S 58 (USC&GS, 1934; Madison County, North Carolina)

Located about 5-3/4 miles northeast along U. S. Highway 25 from the bridge over French Broad River at Hot Springs, at the junction with State Highway 208, at the 2-span bridge over Big Laurel Creek, and in the top of the north end of the bridge seat of the west concrete abutment. A standard tablet stamped "S 58 1934".

ELEVATION: 1593.333 feet or 485.649 meters (C-2)

S 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 8.2 miles east along Southern Railway from the station at Del Rio, 11 rails south of milepost No. 187, 6 feet east of east rail, 6 inches below top of rail, in base of signal 1869. A standard tablet stamped "S 121 1935".

ELEVATION: 1225.785 feet or 373.620 meters (C-1)

S 125 (USC&GS, 1935; Cooke County, Tennessee)

Located 19.2 miles southeast of Newport, Tennessee, 7.6 miles southeast of Del Rio, Tennessee, in the Pisgah National Park, 25 feet northeast of Round Mountain road at a hairpin curve on south side of a 12-inch black oak tree, 7 feet above surface of road, and 3 feet west of an old trail. A standard tablet stamped "S 125 1935" and set vertically in a 12-inch black oak tree, 1 foot above ground.

Reference Mark 1: 18.7 feet N 52° E to 6-inch poplar.

Reference Mark 2: 28.2 feet S 67° E to 3-inch elm.

ELEVATION: 2353.161 feet or 717.245 meters (T-2)

S 130 (USC&GS, 1935; Madison County, North Carolina)

Located 25.8 miles southeast of Newport, Tennessee, 14.2 miles southeast of Del Rio, Tennessee, on a sled road 0.5 miles southeast of Lemon Gap, in the Pisgah National Forest, 25 feet northeast of road, 40 feet southwest of road, 70 feet southeast of a hairpin turn in road, and 45 feet northeast of drain. A standard tablet stamped "S 130 1935" and set vertically in 30-inch buckeye tree.

Reference Mark 1: 16.8 feet S 50° E to 4-inch chestnut oak.

Reference Mark 2: 18.6 feet N 22° W to 4-inch elm.

ELEVATION: 3255.791 feet or 992.367 meters (T-2)

ST 9 (TVA, 1941; Madison County, North Carolina)

Located in the extreme west part of the east central portion of Quadrangle 182 southeast. To reach from railroad station at Barnard, North Carolina, drive southwest, crossing river, along gravel road for 4.30 miles to trail northwest, park car and follow trail northwest 900 feet to clearing and small barn on right, turn right around barn and follow up center line of hollow 700 feet to top of ridge, turn right and follow along center line of ridge and fence 400 feet to top of cultivated knoll, 80 feet east of top of knoll, 10 feet north of north edge of wood, 3 feet north of wire fence, in cultivated field. A 1- by 1-inch angle iron stamped "ST 9" driven at base of 8-inch oak stump.

Reference Mark 1: 6.22 feet East to tack in 12-inch oak stump.

Reference Mark 2: 0.62 feet N 82° W to tack in 8-inch oak stump.

Reference Mark 3: 12.82 feet N 42° W to tack in 14-inch oak stump.

GRID POSITION (N. C.): X = 876,519.4; Y = 773,272.0 (T-4)

ELEVATION: 2281 feet (T-5)

ST 10 (TVA, 1941; Madison County, North Carolina)

Located in the west central portion of Quadrangle 182 southeast. To reach from Hot Springs, North Carolina, drive south on North Carolina State Highway 209 for 8.60 miles to store and road east, turn left and drive up Woolleyshot Branch for 0.20 miles, park car and take good trail northeast for 1.30 miles to top of ridge, continue around same trail 1000 feet to cleared ridge, on center line of ridge 100 feet south of trail in open field. A 1- by 1-inch angle iron stamped "ST 10".

GRID POSITION (N. C.): X = 861,461.3; Y = 775,280.8 (T-4)

ELEVATION: 2852 feet (T-5)

ST 11 (TVA, 1941; Madison County, North Carolina)

Located in the extreme northeast corner of Quadrangle 182 southeast. To reach from Walnut, North Carolina, drive 0.20 miles north on U. S. Highways 70 and 25 to Y-road west, turn left and drive 2.00 miles, keeping left at all roads, to T-road intersection, park car and walk south up wooded ridge to top, 500 feet. A 1- by 1-inch angle iron stamped "ST 11" and set directly under flag in 16-inch pine.

Reference Mark 1: 1.48 feet N 07° W to 16-inch pine.

Reference Mark 2: 10.20 feet S 18° E to 14-inch pine.

Reference Mark 3: 5.55 feet N 84° W to 4-inch pine.

GRID POSITION (N. C.): X = 887,445.0; Y = 791,014.0 (T-4)

ELEVATION: 1954 feet (T-5)

ST 12 (TVA, 1941; Madison County, North Carolina)

Located in the south central portion of Quadrangle 182 southeast. To reach from railroad station at Barnard, North Carolina, drive southwest along gravel road for 7.80 miles to small village known as Big Pine and Y-road intersection, turn left, crossing small creek, and drive 0.20 miles just past large barn on left to a gap in fence, park car and walk up center line of ridge to east-west fence, cross fence and walk up west-south fence to second east-west fence and walk around this fence to small wooded knoll, 200 feet north, 45 feet west of said top in edge of cultivated field at base of 10-inch stump. A 1- by 1-inch angle iron stamped "ST 12".

Reference Mark 1: 12.70 feet S 83° E to tack in 5-inch stump.

Reference Mark 2: 0.35 feet S 41° W to tack in 10-inch stump.

GRID POSITION (N. C.): X = 870,579.0; Y = 763,023.2 (T-4)

ELEVATION: 2645 feet (T-5)

T 58 (USC&GS, 1934; Madison County, North Carolina)

Located about 5-3/4 miles northeast along U. S. Highway 25 from the bridge over the French Broad River at Hot Springs, thence about 2-1/4 miles north along State Highway 208, about 1.2 miles south of the junction of State Highway 212, on a curve, 55 yards west of the west end of a rock cut, about 55 yards west of the east end of an old apple orchard, 8 yards south of the center line of the highway, and at the fence around the orchard. A standard tablet stamped "T 58 1934" and set in the top of a concrete post.

ELEVATION: 1657.913 feet or 505.333 meters (C-2)

T 121 (USC&GS, 1935; Cooke County, Tennessee)

Located 7.3 miles east along Southern Railway from the station at Del Rio, 0.3 miles north of milepost No. 188, 2 rails north of south end of a cliff, 8 feet east of east rail, 18 inches above top of rail, and set in the face of the cliff. A standard tablet stamped "T 121 1935" and set vertically.

ELEVATION: 1211.044 feet or 369.127 meters (C-1)

T 125 (USC&GS, 1935; Cooke County, Tennessee)

Located 20.2 miles southeast of Newport, Tennessee, 8.6 miles southeast of Del Rio, Tennessee, in the Pisgah National Park, 23 feet southwest of Round Mountain road, 30 feet northeast of Round Mountain road, in bend of a hairpin curve, 58 feet southeast of point of sedge grass at bend of hairpin curve, and 100.3 feet southeast of a painted stone slab. A standard tablet stamped "T 125 1935" and set in the top of a concrete post.

Reference Mark 1: 100.3 feet N 30° W to painted stone slab.

Reference Mark 2: 55.5 feet N 28° E to painted cross on a jutting rock.

ELEVATION: 2654.230 feet or 809.011 meters (T-2)

T 130 (USC&GS, 1935; Madison County, North Carolina)

Located 26.8 miles southeast of Newport, Tennessee, 15.2 miles southeast of Del Rio, Tennessee, on the property of Itham Rollins, 7 feet north of Roaring Fork road, 75 feet southeast of Itham Rollins' house, 30 feet north of Roaring Fork Creek, 100 feet east of log crib, 12 feet south of wire fence, and 75 feet east of trail leading up hollow. A standard tablet stamped "T 130 1935" and set in top of rock outcrop.

Reference Mark 1: 16 feet N 70° W to 8-inch poplar.

Reference Mark 2: 14.8 feet N 60° E to 4-inch poplar.

ELEVATION: 2813.226 feet or 857.473 meters (T-2)

TROUBLE (USGS, 1934; Madison County, North Carolina)

Located on partially open top on divide between Big Pine Creek, about 3/4 mile north and east of Troublesome Gap and about 8 miles west and north of Marshall. To reach from Barnard Post Office, cross river bridge, take road up Big Pine Creek, 6.8 miles to home of R. B. Caldwell, leave car and follow wagon road to Troublesome Gap, keep to left, thence trail northerly along ridge to summit and station. A standard tablet stamped "TROUBLE 1934", and set in rock outcrop on extreme summit.

Reference Mark 1: 8.5 feet N 60° W.
Reference Mark 2: 9.45 feet N 40° E.

GEODETIC POSITION: Lat. = 35°48'31.147"; Long. = 82°49'36.403" (G-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Sandy Mash	19°27'48.7"	199°25'51.3"	4.181038	9.4
Max Patch	83°51'59.6"	263°47'25.4"	4.073307	7.4

GRID POSITION (TENN.): X = 2,940,748.3; Y = 530,922.5 (G-3)

GRID POSITION (N. C.): X = 865,609.8; Y = 771,092.8 (G-3)

ELEVATION: 4072 feet (T-5)

TT B 6 (USGS, 1934; Cooke County, Tennessee)

Located 5 miles southwest of Cedar Creek, 105 feet N 61° 30' W of Y-road intersection, and 15 feet south 53°30' W of shed belonging to Johnathan Peters. A standard tablet stamped "TT B 6 1934" and set in top of rock outcrop.

GEODETIC POSITION: Lat. = 35°59'21.00"; Long. = 82°59'05.20" (G-3)

U 121 (USCGS, 1935; Cooke County, Tennessee)

Located 5.9 miles east along the Southern Railway from station at Del Rio, in south end of east abutment of bridge 189.1 over Wolf Creek, 6 rails west of milepost No. 189, 3 feet south of south rail, and 6 inches below top of rail. A standard tablet stamped "U 121 1935".

ELEVATION: 1192.484 feet or 363.470 meters (C-1)

U 125 (USCGS, 1935; Cooke County, Tennessee)

Located 21.3 miles southeast of Newport, Tennessee, 9.7 miles southeast of Del Rio, Tennessee, in the Pisgah National Park, 60 feet northeast of Round Mountain road, at a curve in road, 8 feet north of an old trail, 200 feet east of a large stone slab set by Pisgah National Park, and 12 feet above surface of road. A standard tablet stamped "U 125 1935" and set vertically in 12-inch chestnut oak tree.

Reference Mark 1: 35 feet S 27° E to 10-inch blackgum tree.

Reference Mark 2: 23 feet N 65° W to 5-inch pine tree.

ELEVATION: 2973.964 feet or 906.466 meters (T-2)

U 130 (USCGS, 1935; Madison County, North Carolina)

Located 27.5 miles southeast of Newport, Tennessee, 16.3 miles southeast of Del Rio, Tennessee, 16 feet southwest of Roaring Fork road, 100 yards southeast to large barn, 28 feet southwest from fence, 50 feet northeast of Roaring Fork Creek, and 42 feet southeast of a large boulder with a painted cross on it. A standard tablet stamped "U 130 1935" and set in the top of rock outcrop.

ELEVATION: 2438.112 feet or 743.138 meters (T-2)

USDA 222 (U. S. Dept. of Agriculture, ? ; Greene County, Tennessee)

Located 11.9 miles northeast of Wolf Creek, Tennessee, on Cove Creek road right-of-way, 6 feet southeast of Cove Creek road, on the left bank of Cove Creek, on top of southwest abutment of new concrete bridge over Cove Creek, 300 feet southwest of a two story house, 180 feet northwest of a tobacco barn, 60 feet southwest of an old road and 110 feet northeast of a fence corner. A standard USDA tablet set in top of west abutment at south end of concrete bridge.

Reference Mark 1: 29.3 feet S 08° E to 10-inch sycamore.

Reference Mark 2: 31.7 feet N 48° W to 6-inch walnut.

ELEVATION: 1539.426 feet or 469.218 meters (T-2)

1349 USDA (U. S. Dept. of Agriculture, ? ; Madison County, North Carolina)

Located 12.7 miles southwest of Hot Springs, North Carolina, 0.2 miles south of Joe, North Carolina, on Meadow Fork road, on property of W. C. Fowler, 8 feet southwest of Meadow Fork road, 35 feet north of Little Creek road, 62 feet north of bridge over Little Creek, 73 feet west of W. C. Fowler's store, 26 feet southwest of southwest corner of garden, 14.4 feet southeast of corn crib. A standard USDA tablet set in top of iron pipe.

Reference Mark 1: 14.4 feet N 10° W to southeast corner of corn crib.

Reference Mark 2: 73.0 feet N 75° E to northeast corner of Fowler's store.

ELEVATION: 2653.134 feet or 808.677 meters (T-2)

V 121 (USCGS, 1935; Cooke County, Tennessee)

Located 5.1 miles east along Southern Railway from station at Del Rio, 5 rails west of highway bridge over track and French Broad River, 9 yards east of milepost No. 190, 5 yards south of south rail, and 18 inches above top of rail. A standard tablet stamped "V 121 1935" and set in the top of a concrete post.

ELEVATION: 1184.145 feet or 360.928 meters (C-1)

V 125 (USCGS, 1935; Cooke County, Tennessee)

Located 22.3 miles southeast from Newport, Tennessee, 10.7 miles southeast of Del Rio, Tennessee, in the Pisgah National Park, 8 feet north of Round Mountain road, 150 feet east of a 14-inch blackgum tree, 250 feet east of sharp bend in road, and 15 feet south of a 10-inch black oak tree, in rock outcrop 3 feet above road. A standard tablet stamped "V 125 1935".

ELEVATION: 3150.916 feet or 960.401 meters (T-2)

V 127 (USCGS, 1935; Madison County, North Carolina)

Located 26.4 miles southwest of Marshall, North Carolina, at Trust, North Carolina, at intersection of North Carolina State Highways 209 and 213, 78.4 feet southwest of Trust Post Office, and 40 feet southwest of Highway 213, on left bank of Spring Creek, in top of center abutment of highway bridge on west side of bridge. A standard tablet stamped "V 127 1935".

Reference Mark 1: 71.2 feet Due North to Texaco gas pump.

Reference Mark 2: 78.4 feet N 35° E to southeast corner of post office.

ELEVATION: 2411.353 feet or 734.982 meters (T-2)

V 130 (USCGS, 1935; Madison County, North Carolina)

Located 28.7 miles southeast of Newport, Tennessee, 17.1 miles southeast of Del Rio, Tennessee, on the property of the Roaring Fork School, 100 feet west of intersection of Roaring Fork road and Meadow Fork Creek, 36.9 feet northeast of small tobacco barn, 13.9 feet west of Meadow Fork School, and 45

feet south of old dwelling. A standard tablet stamped "V 130 1935" and set in the top of rock outcrop.

Reference Mark 1: 13.9 feet S 80° E to southwest corner of Meadow Fork School.

Reference Mark 2: 36.9 feet S 63° W to northeast corner of small tobacco barn.

ELEVATION: 2194.645 feet or 668.929 meters (T-2)

W 117 (USCGS, 1935; Greene County, Tennessee)

Located 7.4 miles southeast of bridge over Davy Crockett Lake, by Tennessee State Highway 70, on southwest bend of first horse shoe curve from bottom of Rich Mountain, on west bank of small gorge, 0.6 miles south of Rich Mountain Service Station, 13 yards south of center line of highway, and 1 foot above high side of road. A standard tablet stamped "W 117 1935" and set in the top of a concrete post.

ELEVATION: 1707.037 feet or 520.306 meters (C-2)

W 121 (USCGS, 1935; Cooke County, Tennessee)

Located 4.1 miles east along Southern Railway from the station at Del Rio, 1 rail south of milepost No. 191, 7 yards west of west rail, 2 feet below top of rail. A standard tablet stamped "W 121 1935" and set in the top of a concrete post.

ELEVATION: 1169.955 feet or 356.603 meters (C-1)

W 125 (USCGS, 1935; Cooke County, Tennessee)

Located 23.3 miles southeast of Newport, Tennessee, 11.7 miles southeast of Del Rio, Tennessee, in the Pisgah National Park, 60 feet southwest of Round Mountain road at center of long winding curve, 34 feet northwest of a spring, 29.6 feet southwest of a painted 10-inch poplar tree, 170 feet southeast of intersection of Rattlesnake Branch and Round Mountain road, and in southwest corner of small clearing. A standard tablet stamped "W 125 1935" and set in the top of a rock outcrop.

Reference Mark 1: 10 feet N 62° W to 9-inch poplar tree.

Reference Mark 2: 29.6 feet N 57° E to painted 10-inch poplar tree.

ELEVATION: 3071.828 feet or 936.295 meters (T-2)

WM 54 (TVA, 1938; Greene County, Tennessee)

Located on Paint Mountain, 250 feet southeast of gap through which Forest Service road passes. To reach from Hot Springs, North Carolina, cross French Broad River bridge and take gravel road downstream along right bank to mouth of Paint Creek, turn right and cross wooden bridge across creek and immediately turn left up Paint Mountain road (Forest Service), continue on this road to gap and leave car, 250 feet S 50° E from gap. A 1- by 1-inch angle iron.

Reference Mark 1: 18.7 feet N 26° W to 15-inch pine.

Reference Mark 2: 18.0 feet N 65° E to 18-inch oak.

Reference Mark 3: 23.2 feet S 27° E to 12-inch oak.

GRID POSITION (TENN.): X = 2,919,627.4; Y = 587,921.4 (T-4)

ELEVATION: 2274 feet (T-5)

X 117 (USCGS, 1935; Greene County, Tennessee)

Located 8.5 miles southeast of bridge over Davy Crockett Lake, by Tennessee State Highway 70, set at top of mountain in center line old abandoned highway made useless by new highway, 30 yards northeast of center line of rock cut on southwest side of new highway, 21 yards northeast of center line of highway, 20 yards northeast of center line of intersection of old highway and new, 2 feet above grade of road. A standard tablet stamped "X 117 1935" and set in top of concrete post.

ELEVATION: 2121.823 feet or 646.733 meters (C-2)

X 121 (USCGS, 1935; Cooke County, Tennessee)

Located 2.9 miles east along Southern Railway from the station at Del Rio, 20 rails west of milepost No. 192, 4 rails west of mail crane at French Broad, 1.2 rails west of center of a road crossing, and 4 yards north of north rail. A standard tablet stamped "X 121 1935" and set in the top of a concrete post.

ELEVATION: 1162.649 feet or 354.376 meters (C-1)

X 125 (USCGS, 1935; Cooke County, Tennessee)

Located 24.4 miles southeast of Newport, Tennessee, 12.8 miles southeast of Del Rio, Tennessee, in the Pisgah National Park, 25 feet west of Round Mountain road, 90 feet southwest of intersection of drain and Round Mountain road, 14 feet west of a wire fence, and in northeast corner of an apple orchard opposite two 16-inch poplar trees. A standard tablet stamped "X 125 1935" and set in the top of rock outcrop.

Reference Mark 1: 44.7 feet S 78° E to 16-inch poplar tree.

Reference Mark 2: 41 feet S 50° W to 11-inch apple tree.

ELEVATION: 3298.606 feet or 1005.417 meters (T-2)

X 125 X (USCGS, 1935; Madison County, North Carolina)

Located 2.2 miles north along the Southern Railway from the station at Barnard, 0.5 miles southeast of the station at Sandy Bottom, 22 yards west of milepost No. 173, 17 feet south of the south rail, and 1 foot below the rails. A standard tablet stamped "X 125 1935" and set in top of a concrete post projecting about 8 inches above the ground.

Note: Originally described by the USCGS as being stamped "X 125 X 1935".

Point was recovered by TVA party and found to be stamped "X 125 1935".

ELEVATION: 1474.469 feet or 449.419 meters (C-1)

Y 117 (USCGS, 1935; Greene County, Tennessee)

Located 9.5 miles southeast of bridge over Davy Crockett Lake, by Tennessee State Highway 70, about 385 yards west of home of A. L. Goenell, about 380 yards west and across road from large barn of A. L. Goenell, 134 yards west of center line of intersection of abandoned highway and new, 22 yards southwest of abandoned highway, 19 yards north of center line of Tennessee State Highway 70, 15 yards west of highway culvert, and 1 foot below level of highway. A standard tablet stamped "Y 117 1935" and set in the top of concrete post.

ELEVATION: 2134.267 feet or 650.526 meters (C-2)

Y 121 (USCGS, 1935; Cooke County, Tennessee)

Located 2.3 miles east along Southern Railway from station at Del Rio, 3 feet northwest of milepost 193, 9 feet northeast of northeast rail, 1 foot lower than top of rail. A standard tablet stamped "Y 121 1935" and set in the top of a concrete post.

ELEVATION: 1151.809 feet or 351.072 meters (C-1)

Y 125 X (USC&GS, 1935; Madison County, North Carolina)

Located 3.2 miles north along the Southern Railway from the station at Barnard, 0.4 miles north of the station at Sandy Bottom, 31 yards south of milepost No. 174, 15.4 feet east of the east rail, and about 6 inches above the top of the rail. A standard tablet stamped "Y 125 X 1935" and set in the top of a rock outcrop.

ELEVATION: 1445.292 feet or 440.526 meters (C-1)

Y 138 (USC&GS, 1935; Madison County, North Carolina)

Located 1.1 miles southeast along the Southern Railway from the station at Hot Springs, 10-1/2 rails northwest of milepost No. 178, in the top of the southwest end of the southeast abutment of railway bridge 178.0 over the French Broad River, 4 feet southwest of the southwest rail, about level with the base of the rail. A standard tablet stamped "Y 138 1935".

ELEVATION: 1354.869 feet or 412.965 meters (C-1)

Z 117 (USC&GS, 1935; Greene County, Tennessee)

Located 9.7 miles northwest of school at White Rock, North Carolina, by Tennessee State Highway 70, 75 yards west of home of W. T. Gosnell, 36 yards west of filling station, owned by D. H. Gosnell, 22 yards west of the North Carolina and Tennessee State line, 8 yards south of center line of highway, and level with the surface of the road. A standard tablet stamped "Z 117 1935" and set in the top of concrete post.

ELEVATION: 2233.312 feet or 680.715 meters (C-2)

Z 125 X (USC&GS, 1935; Madison County, North Carolina)

Located 4.1 miles southeast along the Southern Railway from the station at Hot Springs, 10 rails south of milepost No. 175, 5-1/2 rails northeast of the road crossing at stackhouse, 2 rails northeast of a mail crane, 12 feet east of the east rail, and 1 foot higher than the rails. A standard tablet stamped "Z 125 X 1935" and set in the top of a concrete post projecting 5 inches above ground.

ELEVATION: 1419.859 feet or 432.774 meters (C-1)

Z 136 B (USC&GS, 1935; Madison County, North Carolina)

Located at Barnard, 9-1/2 yards north of the north end of the Southern Railway station, 9-1/2 yards east of the east rail, 8 yards south of the southwest corner of a store, at a road crossing, 1 yard north of crossing sign, 2 feet higher than the rail. A standard tablet stamped "Z 136 B 1935" and set in the top of a concrete post projecting about 8 inches above the ground.

ELEVATION: 1534.925 feet or 467.846 meters (C-1)

Z 136 C (USC&GS, 1935; Madison County, North Carolina)

Located 1.2 miles north along the Southern Railway from the station at Barnard, 66 yards north of milepost No. 172, in the top of the northeast corner of the east headwall of concrete railway culvert over small stream, 10.6 feet east of the east rail, 2-1/2 feet lower than the rail. A standard tablet stamped "Z 136 C 1935".

ELEVATION: 1501.457 feet or 457.645 meters (C-1)

Z 138 (USC&GS, 1935; Madison County, North Carolina)

Located at Hot Springs, about 100 yards southeast of the Southern Railway station, 90 yards southeast of the crossing of U. S. Highway 25, 17 yards northwest of milepost No. 179, 28 feet southwest of the southwest rail of the main track, 6.1 feet east of power transmission line pole 1 and about 1/2 foot lower than the top of the rail. A standard tablet stamped "Z 138 1935" and set in the top of a concrete post projecting about 8 inches above ground.

ELEVATION: 1334.272 feet or 406.687 meters (C-1)