

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

**SURVEY CONTROL DATA**  
**SWANNANOA, NORTH CAROLINA**  
**QUADRANGLE 201**

BULLETIN TVA-MS-201-C

CHATTANOOGA, TENNESSEE  
DECEMBER 1950

## SURVEY CONTROL DATA IN QUADRANGLE 201

**A 139** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 1.6 miles northwest along the North Fork Reservoir road from the junction of State Highway 9 north of Black Mountain, about 0.2 miles north of a side road leading northwest, about 98 yards south of a culvert, 55 yards south of the Paul Cordell house, in the woods, and 10 yards west of the center line of the road. A standard tablet stamped "A 139 1935" and set in the top of a concrete post.

ELEVATION: 2457.439 feet or 749.029 meters (T-2)

**AKW 234** (TVA, 1939; Buncombe County, North Carolina)

Located 1.3 miles southwest of U. S. Post Office in Fairview, via Cane Creek road, 8.0 miles northeast of U. S. Post Office in Fletcher, 1.1 miles southwest of U. S. Highway 74, 3.3 miles northeast of Tweed Chapel, on north side of Cane Creek road, 26 feet from center line of road, 16 feet west of drive to house, 82 feet south of Morgan J. Ashworth's residence, 15.5 feet north of mailbox, 15.5 feet northwest of west end of small plank bridge over ditch. A standard tablet stamped "AKW 234 1941" and set in concrete post.

Reference Mark 1: 20.2 feet N 40° W to 30-inch forked black walnut.

Reference Mark 2: 52.5 feet S 25° E to 12-inch forked wild cherry tree across road.

Reference Mark 3: 21.3 feet S 60° W to 8-inch black locust tree.

ELEVATION: 2198.851 feet or 670.211 meters (T-2)

**AKW 235** (TVA, 1939; Buncombe County, North Carolina)

Located 0.2 miles west of U. S. Post Office in Fairview, on U. S. Highway 74, on northwest wingwall of concrete bridge over Cane Creek, on west side of highway, 190 feet southeast of intersection of Cane Creek road with U. S. Highway 74, 2 feet west of concrete headwall of bridge, 3 feet south of black and white road sign, with night reflector, on right bank of Cane Creek, set flush and horizontally in top wing wall, 2 feet northeast of where wall starts downward slope. A standard tablet stamped "AKW 235 1941".

ELEVATION: 2215.648 feet or 675.331 meters (T-2)

**AKW 236** (TVA, 1939; Buncombe County, North Carolina)

Located 1.1 miles southeast of U. S. Post Office in Fairview, via U. S. Highway 74, 4.5 miles northwest of U. S. Post Office in Gerton, 3.5 miles northwest of Hickorynut Gap, on south side of highway, 30.5 feet from center line of highway, 0.2 miles east of Ashworth's Dairy barn about midway at 1000 feet east and west tangent along highway, 43 feet east of east end of headwall of 30 inch concrete culvert, 42 feet east of north end of 15-inch tile culvert under old road bed, at edge of old road bed, 27.8 feet east of forked apple tree. A standard tablet stamped "AKW 236 1941" and set in concrete post.

Reference Mark 1: 13.2 feet N 30° W to power pole No. AV-21-3.

Reference Mark 2: 53.5 feet S 15° W to 30-inch double maple tree.

Reference Mark 3: 69.7 feet S 60° E to 30-inch Spanish oak tree.

ELEVATION: 2285.350 feet or 696.576 meters (T-2)

**AKW 237** (TVA, 1939; Buncombe County, North Carolina)

Located 3.3 miles north of post office in Gerton, on U. S. Highway 74, 2.3 miles southeast of U. S. Post Office in Fairview, 2.1 miles northwest of Hickorynut Gap, on north side of highway, 38.8 feet from center line of highway, at Y-road intersection southeast, 12.9 feet northwest of small shelter building for school children, 65 feet northeast of two mailboxes across highway, 13.3 feet north of northwest end of 12-inch metal culvert of Y-road, just north of top of road bank. A standard tablet stamped "AKW 237 1941" and set in concrete post.

Reference Mark 1: 3.0 feet S 70° W to 8-inch hickory nut tree.

Reference Mark 2: 7.4 feet S 60° E to 8-inch sourwood tree.

Reference Mark 3: 69.0 feet N 45° E to power pole.

ELEVATION: 2334.963 feet or 711.698 meters (T-2)

**AKW 257** (TVA, 1941; Buncombe County, North Carolina)

Located about 3-3/4 miles east of Weaverville, about 50 feet east of road on nose of ridge. To reach from traffic light in Weaverville, drive south by school for 0.3 miles to intersection left 3.5 miles to intersection with dirt road right, take road right for 1.1 miles to mailbox of T. A. Bradley, end of truck travel, follow nose of ridge east of road 50 feet to station. Nail in root of pine tree.

GRID POSITION (N. C.): X = 964,872.0; Y = 723,954.8 (T-4)

ELEVATION: 2324 feet (T-5)

**B 139** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 0.7 miles northwest along the North Fork Reservoir road from the junction of State Highway 9 north of Black Mountain, in a grove of pine trees, at the junction of a road leading south, south of the center line of the main road, east of the center line of the side road. A standard tablet stamped "B 139 1935" and set in the top of a concrete post.

ELEVATION: 2439.893 feet or 743.681 meters (T-2)

**B 142** (USC&GS, 1935; Buncombe County, North Carolina)

Located 6.1 miles northwest of post office in Fairview, on U. S. Highway 74, 1.9 miles northwest of Minehole Gap, on north side of highway, 27 feet from center line of highway, 100 feet northwest of Y-intersection of old highway with new highway, 60 feet south of two-story frame house painted brown, 31 feet south of center line of old highway, 79 feet north of telephone pole No. 68 across highway, 95 feet northwest of mailboxes across highway, 150 feet northwest of wood bridge on south side of highway. A standard tablet set in concrete post.

Reference Mark 1: 21.0 feet S 55° E to 8-inch black walnut tree.

Reference Mark 2: 46.5 feet N 55° E to 20-inch black locust tree in yard.

Reference Mark 3: 70.5 feet N 35° W to 8-inch city water hydrant.

ELEVATION: 2116.725 feet or 645.179 meters (T-2)

**BLACK KNOB** (USGS, 1934; Buncombe County, North Carolina)

Located about 12 miles east and 3-1/2 miles south of town of Black Mountain, on the south end of a high ridge extending south from Swannanoa Mountain. To reach from Asheville drive east on Highway 74 toward Rutherfordton for 9.0 miles, turn left onto Old Fort road, drive straight past all cross-roads for 5.8 miles, turn left at Spring Mountain Baptist Church, drive 2.3 miles up old road to top of Swannanoa Mountain, leave car at old house and follow path to east and south to station. A standard tablet stamped "BLACK KNOB 1934" and set in rock set in place.

Reference Mark 1: 22.2 feet S 10° W to drill hole in rock.

Reference Mark 2: 8.2 feet N 60° W to drill hole in rock.

Reference Mark 3: 30.1 feet N 25° E to drill hole in rock.

GEODETIC POSITION: Lat. = 35°33'40.143"; Long. = 82°20'40.179" (G-3)

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Bear Wallow	5°55'56.9"	185°55'30.3"	4.049293	7.0
Cedar Cliff	86 41 27.2	266 37 41.1	3.991455	6.1
Craggy	169 14 24.5	349 13 15.0	4.205166	10.0

GRID POSITION (N. C.): X = 1,005,483.3; Y = 675,895.9 (G-3)

ELEVATION: 4240 feet (T-5)

**BM 2052.72** (USGS, 1929; Buncombe County, North Carolina)

Located 6 rails east of the station at Azalea, 5 feet north of the north rail, in concrete base of mail crane. Chiseled square.

ELEVATION: 2052.72 feet (G-3)

**BM 2114.72** (USGS, 1929; Buncombe County, North Carolina)

Located 1.2 miles northeast of Azalea, 10 feet north of track and in concrete base of signal stand. Chiseled square.

ELEVATION: 2114.72 feet (G-3)

**BM 2222** (USGS, 1896; Buncombe County, North Carolina)

Located at Swannanoa, 6.1 feet west of the middle of the west end of the Southern Railway station, about 15 yards south of the south rail at the west side of the walk at the west end of the station, and 4 feet east of a hedge. A standard tablet stamped "EL 2220.543 FT." and riveted on the top of a 3-1/2 inch iron pipe projecting about 3 inches above ground.

ELEVATION: 2220.491 feet or 676.807 meters (C-1)

**BM 2242.33** (USGS, 1929; Buncombe County, North Carolina)

Located 1.9 miles east of Swannanoa, on north side of east abutment on railroad bridge over Swannanoa River. Square cut.

ELEVATION: 2242.27 feet (G-3)

**BM 2253.30** (USGS, 1929; Buncombe County, North Carolina)

Located 1 mile east of Swannanoa, 10 feet north of track, at public road crossing, on the west headwall of concrete culvert. Square cut.

ELEVATION: 2253.25 feet (G-3)

**BM 2330.73** (USGS, 1929; Buncombe County, North Carolina)

Located 0.6 miles west of Black Mountain station, 50 feet east of milepost No. 126, 7 feet north of center line of railroad track, and on south end of rock wall at road crossing. Chiseled square.

ELEVATION: 2330.66 feet (G-3)

**BM 2397.86** (USGS, 1929; Buncombe County, North Carolina)

Located 0.7 miles east of Black Mountain, 10 feet south of track, in the east end of cut, and on ledge. Square cut.

ELEVATION: 2397.78 feet (G-3)

**BM 2420.02** (USGS, 1929; Buncombe County, North Carolina)

Located 1.23 miles east of Black Mountain, 20 feet northeast of intersection of Mount Mitchell road with Highway 70, on the west end of the north coping of concrete bridge. Square cut, painted "B.M."

ELEVATION: 2419.96 feet (G-3)

**BM 2933.76** (USGS, 1929; Buncombe County, North Carolina)

Located 1.93 miles north of U. S. Highway 70, on Mount Mitchell road, on the east edge of toll road, at bend, and on boulder. Chiseled square, painted "U.S.B.M."

ELEVATION: 2933.68 feet (G-3)

**BM 3171.87** (USGS, 1929; Buncombe County, North Carolina)

Located about 1 mile (airline) north of toll gate and 0.3 miles south of Rainbow Gap, on Mount Mitchell road, 60 feet north of water barrel at junction of switchback, at northeast edge of road, at foot path and on ledge. A chiseled square.

ELEVATION: 3171.79 feet (G-3)

**BM 3468.80** (USGS, 1929; Buncombe County, North Carolina)

Located 1 mile north of Rainbow Gap, on Mount Mitchell road, on the east edge of abandoned road, at trail fork east to Buck Flat Gap and on ledge. Square cut.

ELEVATION: 3468.72 feet (G-3)

**BM 3702.19** (USGS, 1929; McDowell County, North Carolina)

Located 3.06 miles north of toll gate, at Long Gap, on Mount Mitchell road, 100 feet north of forks of road, 20 feet east of road and in the root of 20-inch white oak. A copper nail and washer.

ELEVATION: 3702.11 feet (G-3)

**BM 3911.39** (USGS, 1929; McDowell County, North Carolina)

Located 0.9 miles north of Birch Springs, and 2.2 miles south of Blue Ridge siding, on Mount Mitchell road, along abandoned railroad grade, 20 feet southwest of center of stream crossing and on boulder. Chiseled square.

ELEVATION: 3911.31 feet (G-3)

**BM 4243.56** (USGS, 1929; McDowell County, North Carolina)

Located 1 mile south of Blue Ridge siding, and 0.18 miles south of junction of switchback in abandoned road, south of stream crossing, on the west edge of the road and on boulder. Square cut.

ELEVATION: 4243.48 feet (G-3)

**BM 4815.02** (USGS, 1929; McDowell County, North Carolina)

Located 1 mile north of Blue Ridge siding, on Mount Mitchell road, on the south edge of road, at west end of "Turnbill Curve" and on boulder. Square cut.

ELEVATION: 4814.96 feet (G-3)

**BM 4973.91** (USGS, 1929; McDowell County, North Carolina)

Located 6.02 miles south of Camp Alice, and south of Continental Divide, on the west edge of road, near gap, on boulder. Square cut.

ELEVATION: 4973.83 feet (G-3)

**BM 5185.77** (USGS, 1929; Yancey County, North Carolina)

Located 4.36 miles south of Camp Alice and 15 feet west of trail fork to Rangers Cabin at Bald Knob. Square cut on ledge.

ELEVATION: 5185.69 feet (G-3)

Found Good 8-91

**BM 5576.34 (USGS, 1929; Yancey County, North Carolina)**

Located 2.1 miles south of Camp Alice and 1 mile north of Clingmans Bridge, 65 feet west of center of bridge over small stream and on the northwest edge of road, on a ledge. Square cut.  
ELEVATION: 5576.26 feet (G-3)

**BM 5596.69 (USGS, 1929; Yancey County, North Carolina)**

Located 0.94 miles south of Camp Alice and 50 feet north of wooden culvert, on the west edge of road at bend and on ledge. Chiseled square.  
ELEVATION: 5596.61 feet (G-3)

**BM ONE MILE HIGH (USGS, 1929; Yancey County, North Carolina)**

Located 3.4 miles south of Camp Alice and 0.5 miles south of Clingmans Bridge, on the west side of the road and in ledge. Chiseled bench, painted "ONE MILE HIGH U.S.G.S.B.M."  
ELEVATION: 5281.21 feet (G-3)

**C 142 (USCGS, 1935; Buncombe County, North Carolina)**

Located 5.1 miles northwest of U. S. Post Office in Fairview, via Highway 74, on highway right-of-way, 0.9 miles northwest of Minehole Gap, 4.2 miles northwest of Fairview School, on south side of U. S. Highway 74, on west end of south headwall of concrete culvert over small branch, approximately 200 feet west of pine grove on south side of highway, 85.5 feet southwest of Langren Hotel sign, 150 feet southwest of concrete bridge on old highway over Cashess Creek, 350 feet south of one-story cinder block house on hill in edge of woods. A standard tablet set in headwall.

- Reference Mark 1: 84.0 feet S 65° E to 24-inch maple tree (painted BM.)
  - Reference Mark 2: 53.0 feet N 20° E to telephone pole No. 107.
  - Reference Mark 3: 61.4 feet N 20° W to Southern Dairies sign.
- ELEVATION: 2223.001 feet or 677.572 meters (T-2)

**CEDAR CLIFF (USGS, 1934; Buncombe County, North Carolina)**

Located about 8 miles east of Asheville and 4 miles northwest of Fairview, on the west butt of Swannanoa Mountain, on high rock point known as Cedar Cliff. To reach from Asheville, drive east to bridge over Swannanoa River, turn right for 4.3 miles to Minehole Gap, leave car and walk north along east side of home of Mrs. R. E. Seyles for 1/8 mile to logging road, follow logging road to top of mountain, turn left and walk west along ridge to west end of ridge and high rocky point. A standard tablet stamped "CEDAR CLIFF 1934" and set in ledge rock.

- Reference Mark 1: 20.1 feet S 63° W to drill hole in rock.
- Reference Mark 2: 19.1 feet N 40° E to drill hole in rock.
- Reference Mark 3: 6.95 feet S 80° E to drill hole in rock.

GEODETIC POSITION: Lat. = 35°33'21.605"; Long. = 82°27'08.845" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Spivey	105°28'01.7"	285°21'04.1"	4.272974	11.6
Rice	162 58 38.5	342 57 20.0	4.063890	7.2
Craggy	202 32 14.6	22 34 51.6	4.247488	11.0
Bear Wallow	320 43 09.8	140 46 29.0	4.135159	8.5

GRID POSITION (N. C.): X = 973,327.1; Y = 675,121.9 (G-3)  
ELEVATION: 3846 feet (T-5)

**CHS 43 (TVA, 1941; Buncombe County, North Carolina)**

Located 3.0 miles (airline) northwest of Riceville. To reach from courthouse in Asheville, drive east of Poplar Street and Highways 70 and 74 for 0.55 miles, turn left and go 500 feet, turn right on temporary Highway 694, go 6.3 miles, keep to right on Highway 694, go 1.9 miles, turn left still on temporary Highway 694, very crooked and winding road to top of ridge, go 1.8 miles to small farm road in saddle, leave car and walk east up ridge 750 feet to stump in open field. Angle iron is 3 feet east of stump, 110 feet north of woods line. A 1- by 1-inch angle iron.

- Reference Mark 1: 142.50 feet S 75° W to 4-inch locust.
- Reference Mark 2: 110.40 feet S 20° W to 6-inch locust.
- Reference Mark 3: 85.42 feet S 09° E to 6-inch oak.

GRID POSITION (N. C.): X = 961,489.6; Y = 715,493.2 (T-4)  
ELEVATION: 3630 feet (T-5)

**CHS 44 (TVA, 1941; Buncombe County, North Carolina)**

Located 2.2 miles (airline) southwest of Beech. To reach from Asheville, go north on Highways 19, 70 and 74 to Weaverville to first red light, turn south at light and go 0.7 miles, turn left and follow black top road for 4.0 miles to Y-road intersection, turn right on gravel road and go 0.4 miles to farm road, turn right and go 500 feet to farmhouse, leave car and walk 700 feet to small round knob in field. Angle iron is on center line of small ridge, 250 feet S 45° E of northwest corner of field, 110 feet S 28° W of fence line, 400 feet N 44° W of fence line. A 1- by 1-inch angle iron.

GRID POSITION (N. C.): X = 960,997.5; Y = 725,015.6 (T-4)  
ELEVATION: 2295 feet (T-5)

**CHS 45 (TVA, 1941; Buncombe County, North Carolina)**

Located 2.7 miles (airline) northeast of Fairview. To reach from Asheville Square, drive south on Biltmore Avenue for 2.0 miles, turn left up right bank of river Highway 81, go 1.7 miles keep right on Highway 74 and 81 and go 1.15 miles, turn right on Highway 74 and go 7.25 miles, turn left on Miller Road and go 1.25 miles, turn right and go 1.45 miles, keep straight ahead at crossroads, go 1.5 miles, turn left on dim road, and go 0.5 miles, leave car at barn, follow dug trail to top of ridge, turn left at top and go 500 feet to highest point on small knoll and station. A 1- by 1-inch angle iron.

- Reference Mark 1: 15.31 feet S 61° E to 6-inch oak.
- Reference Mark 2: 19.50 feet N 36° W to 20-inch chestnut.
- Reference Mark 3: 9.49 feet S 19° W to 12-inch oak.

GRID POSITION (N. C.): X = 997,672.6; Y = 672,215.6 (T-4)  
ELEVATION: 3232 feet (T-5)

**CHS 46 (TVA, 1941; Buncombe County, North Carolina)**

Located 1.4 miles (airline) southeast of Fairview. To reach from Asheville Square, go south on Biltmore Avenue for 2.0 miles to river bridge, turn left on Highway 81 along right bank of river and go 1.7 miles turn right on Highway 74 and 81, go 1.15 miles, turn right on Highway 74 and go 9.65 miles to high bank on right of road, near center of mile straight tangent on highway, 600 feet northwest of crossroads intersection in northeast corner of meadow, 25 feet southwest of center line of highway in small grove of 2-inch locusts. A 1- by 1-inch angle iron.

- Reference Mark 1: 143.0 feet N 48° W to power pole (tack).
- Reference Mark 2: 64.79 feet N 78° E to telephone pole (tack).

Reference Mark 3: 147.05 feet S 56° E to power pole (tack).  
GRID POSITION (N. C.): X = 995,124.0; Y = 656,081.2 (T-4)  
ELEVATION: 2261 feet (T-5)

**CHS 47 (TVA, 1941; Buncombe County, North Carolina)**

Located 1.4 miles (airline) east of Montreat. To reach from Asheville, go east on Highway 70 to first red light in Black Mountain, continue on Highway 70 for 1.3 miles to gravel road left (old Mt. Mitchell Toll Road), turn on this road and go 4.95 miles to U-bend in road on top of ridge, park car and walk west on ridge for 700 feet to small top. Station is on southeast side of top and approximately 15 feet south of center of ridge. A 1- by 1-inch angle iron.

- Reference Mark 1: 24.56 feet N 24° W to 20-inch oak.
- Reference Mark 2: 33.96 feet N 36° E to 24-inch dead chestnut.
- Reference Mark 3: 20.06 feet S 62° E to 8-inch hickory.

GRID POSITION (N. C.): X = 1,025,003.5; Y = 703,551.4 (T-4)  
ELEVATION: 3887 feet (T-5)

**CHS 48 (TVA, 1941; Buncombe-McDowell Counties, North Carolina)**

Located 3.5 miles (airline) north of Montreat. To reach from Asheville, drive east on Highway 74 to Black Mountain (red light), from traffic light, continue on Highway 70 for 1.3 miles, turn left between stone gates on old Mt. Mitchell Toll Road, go 12.1 miles to small parking space in edge of old field, leave car and walk west 500 feet up old trail to saddle, turn left on marked trail (Blue Ridge Trail), follow this for 1800 feet to highest point on ridge and station. Angle iron is on south portion of small round top. A 1- by 1-inch angle iron.

GRID POSITION (N. C.): X = 1,023,515.0; Y = 724,306.3 (T-4)  
ELEVATION: 5264 feet (T-5)

**CHS 49 (TVA, 1941; Buncombe County, North Carolina)**

Located 2.6 miles (airline) northeast of Beertree Reservoir. To reach from courthouse in Asheville, go northeast on Poplar Street (Highways 70 and 74) for 0.55 miles, turn left and go 500 feet, turn right on temporary Highway 694 (Scenic Drive) and go 8.1 miles, keep right on Blue Ridge Parkway for 8.5 miles, turn right and go 2.1 miles to west end of tunnel, park car and walk south along center line of ridge (going down) approximately 4000 feet to high point on Asheville Water divide, and intersection of three ridges. Angle iron is driven at 45° angle. A 1- by 1-inch angle iron.

- Reference Mark 1: 14.58 feet S 77° W to 10-inch oak.
- Reference Mark 2: 17.33 feet East to 8-inch oak.
- Reference Mark 3: 7.77 feet S 42° E to 6-inch oak stump.

GRID POSITION (N. C.): X = 997,484.9; Y = 719,282.4 (T-4)  
ELEVATION: 4978 feet (T-5)

**CHS 52 (TVA, 1941; Yancey County, North Carolina)**

Located 1.3 miles (airline) west of Stepps Gap. To reach from Burnsville, drive on U. S. Highway 19E for 0.95 miles to temporary Highway 197, turn right and go south 10.5 miles, keep left (straight ahead) on old Wilson Toll Road, go 7.9 miles to low gap and sign pointing to Bear Gap, leave car and walk west along center line of ridge (very rough walking - briars and underbrush), walk along ridge 800 feet to highest point and station. A 1- by 1-inch angle iron.

- Reference Mark 1: 6.0 feet N 29° E to 4-inch wild cherry.
- Reference Mark 2: 4.94 feet N 44° W to 4-inch wild cherry.
- Reference Mark 3: 6.75 feet S 55° W to 3-inch wild cherry.

GRID POSITION (N. C.): X = 1,020,636.4; Y = 742,040.0 (T-4)  
ELEVATION: 5548 feet (T-5)

**Craggy Pinnacle (USGS, 1934; Buncombe County, North Carolina)**

Located on summit of knob locally known as Buckner's Knob, about 6 miles (airline) northwest of Montreat. Standard Forest Service concrete post No. 23, 10 inches in ground in mound of stones.

- Reference Mark 1: .29 chains S 57° W to cross on rock, chiseled 23.
- Reference Mark 2: .37 chains S 37° E to cross on rock, chiseled 23.

GEODETIC POSITION: Lat. = 35°42'11.383"; Long. = 82°22'39.288" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Britten	99°50'05.9"	279°45'35.0"	4.073431	7.4
Coxcomb	181 33 25.6	1 33 33.6	4.104549	7.9
Mitchell	236 04 46.1	56 08 42.4	4.088083	7.6

GRID POSITION (N. C.): X = 997,407.0; Y = 727,886.6 (G-3)  
ELEVATION: 5892 feet (T-5)

**CROSS (USGS, 1934; McDowell-Buncombe Counties, North Carolina)**

Located about 16 miles east of Asheville and 5 miles southeast of Black Mountain, on high wooded ridge known as Chestnut Mt. To reach from Asheville drive east for 15 miles to railroad station at Black Mountain, drive south on Lakey Gap road for 8.3 miles, turn left onto private road and proceed 0.4 miles to home of A. T. Dalton, leave car and follow old logging road north 1/2 mile to corn field, turn left through corn field and follow path up crest of ridge for 1/2 mile to station, near county line, which is indefinite. A standard tablet stamped "CROSS 1934" and set in rock, set in place.

- Reference Mark 1: 10.4 feet S 20° W to drill hole in rock.
- Reference Mark 2: 90.1 feet N 70° W to drill hole in rock.
- Reference Mark 3: 21.3 feet N 35° W to drill hole in rock.

GEODETIC POSITION: Lat. = 35°33'33.933"; Long. = 82°15'03.106" (G-3)

	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Black Knob	91°19'07.2	271°15'51.2"	3.928965	5.3
Shumont	355 47 20.7	175 47 38.0	4.008561	6.3

GRID POSITION (N. C.): X = 1,033,294.8; Y = 674,343.5 (G-3)

**E 129 (USCGS, 1935; Buncombe County, North Carolina)**

Located at Swannanoa, 86 yards north of U. S. Highway 70, 86 yards west of the Bull Gap road, at the Swannanoa High School, 11 yards south of the northeast corner, and in the step of the side entrance. A standard tablet stamped "E 129 1935".

ELEVATION: 2191.223 feet or 667.886 meters (T-2)

**E 136 (USCGS, 1935; Buncombe County, North Carolina)**

Located 0.7 miles west of the station at Sazalea, by rail, on the Salisbury to Knoxville Division of the Southern Railway, 16-1/2 rails west of mile post No. 135, 8-1/2 rails west of dirt road crossing, 8.5 feet south of the south rail, on the southeast corner of the concrete foundation of cable stand, and 3 inches below the base of the rails. A standard tablet stamped "E 136

1935".

ELEVATION: 2049.717 feet or 624.755 meters (C-1)

**F 129** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 1.0 miles northwest along the Bull Gap road from the high school at Swannanoa, at the junction of a road leading north, 8 yards north of the center line of the Bull Gap road, 45 feet west of the side road, and in a small depression. A standard tablet stamped "F 129 1935" and set in the top of a concrete post.

ELEVATION: 2159.149 feet or 658.110 meters (T-2)

**FROSTY KNOB** (USGS, 1934; Buncombe County, North Carolina)

Located 2-1/2 miles south and 1 mile west of Barnardville. To reach from Stockville, drive south on Highway 19 for 0.5 miles to old Asheville road, turn left for 0.3 miles, thence left again for 0.3 miles, turn left for 2.1 miles, turn right and keep main left hand road 1.0 miles, leave car and walk north up same road about 3/4 mile which leads up Platt Creek, turn N 70° E up old skidding road to head of Platt Creek, turn slightly to the right up old trail, about 1.0 miles to station. A standard tablet stamped "FROSTY 1934" and set in the top of a large rock.

Reference Mark 1: 8.51 feet S 55° W to 1-inch drill hole in rock.

Reference Mark 2: 9.36 feet N 35° W to 1-inch drill hole in rock.

Reference Mark 3: 5.89 feet S 75° E to 1-inch drill hole in rock.

GEODETTIC POSITION: Lat. = 35°44'31.183"; Long. = 82°28'45.167" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Britten	47°09'05.6"	227°08'08.2"	3.527880	2.1
Nofat	159 49 53.4	339 48 55.8	3.855558	4.5
Craggy (Pinnacle)	295 04 30.5	115 08 04.1	4.006686	6.3

GRID POSITION (TENN.): X = 3,044,619.7; Y = 510,199.2 (G-3)

GRID POSITION (N. C.): X = 967,745.9; Y = 743,054.2 (G-3)

ELEVATION: 4246 feet (T-5)

**G 129** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 2.1 miles northwest along the Bull Gap road from the high school at Swannanoa, 26 yards east of the entrance to the Asheville Farm School 8 yards south of the center line of the Bull Gap road, and halfway between two 6-inch spruce trees. A standard tablet stamped "G 129 1935" and set in the top of a concrete post.

ELEVATION: 2257.167 feet or 687.986 meters (T-2)

**GAGE BM 3** (USGS, 1926; Buncombe County, North Carolina)

Located 200 feet upstream from intake to Asheville Water Supply, 1000 feet above Beetree Reservoir, and 3.8 miles north of Swannanoa, 5.60 feet above gage zero. A protruding stone in downstream, streamward corner of gage well on left bank of Beetree Creek.

ELEVATION: 2733.99 feet (G-3)

**GAGE BM 4** (USGS, 1926; Buncombe County, North Carolina)

Located just upstream from second ford crossing of river road from State Highway 10, 1/4 mile downstream from emergency pumping plant of Asheville Water Works, 3 miles northwest of Black Mountain, left bank of river, 3 feet upstream from shelter steps, 7.620 feet above gage zero. A standard reference tablet.

ELEVATION: 2435.65 feet (G-3)

**GAGE BM 5** (USGS, 1938; Beetree Creek, Buncombe County, North Carolina)

Located 200 feet upstream from intake to Asheville Water Supply, 1000 feet above Beetree Reservoir and 3.8 miles north of Swannanoa, 9 feet to right, and 13 feet downstream from downstream face of weir, 0.82 feet lower than gage zero. A circular cut in rock.

ELEVATION: 2727.57 feet (G-3)

**GAGE BM 5** (USGS, 1926; North Fork Swannanoa River, Buncombe County, N. C.)

Located on left bank of river, just above second ford crossing river, road from State Highway 10, 1/4 mile downstream from emergency pumping station of Asheville Water Works, 3 miles northwest of Black Mountain, about 20 feet shoreward from gage shelter and in line with upstream side of gage shelter, 12.61 feet above gage zero. A standard reference tablet set in large rock.

ELEVATION: 2440.64 feet (G-3)

**GAGE BM 9** (USGS, 1943; Buncombe County, North Carolina)

Located 200 feet upstream from intake to Asheville Water Supply, 1000 feet above Beetree Reservoir and 3.8 miles north of Swannanoa, 5.52 feet above gage zero. A circle cut in rock ledge at extreme left end of control.

ELEVATION: 2733.91 feet (G-3) ✓

**GERTON** (USC&GS, 1933; Henderson-Buncombe-McDowell Counties, North Carolina)

Located on east summit of east peak known as Little Pisgah Mountain. To reach from Asheville, go about 18 miles on highway, take road southeast and then east on southwest side of mountain, follow rough road 2-1/2 miles to point where cleared slope of mountain shows, and take steep trail across pasture to top of peak. Station is 15 feet southwest of 12-inch water oak tree, 14.5 feet northwest of dead 15-inch oak tree, and 25 feet northeast of twin dead chestnut trees. Station mark is a standard bronze tablet wedged in a drill hole in outcropping bedrock.

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

Reference mark 1 is on flat top of peak, and 17.845 meters (58.55 feet) from station in geodetic azimuth 107°31'.

Reference mark 2 is on north brow of peak, and 12.910 meters

(42.36 feet) from station in geodetic azimuth 208°04'.

Report on Condition (TVA, 1941): Tablet destroyed. Correct station was identified by checking references. Cast triangle is still visible in top of brass plug.

GEODETTIC POSITION: Lat. = 35°30'00.516"; Long. = 82°19'58.316" (C-1)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Bearwallow	26°50'43.75"	206°49'52.80"	3.6903155	3.0
Mitchell	191 46 36.03	11 48 57.97	4.4769382	18.6
Pinnacle	262 05 50.30	82 16 00.69	4.4269028	16.6

Geodetic azimuth from station to fire tower on top of peak which is above and southwest of Chimney Rock: 330°48'49".

GRID POSITION (N. C.): X = 1,008,194.52; Y = 653,587.94 (C-1)

ELEVATION: 4412 feet (T-5)

**H 129** (USC&GS, 1935; Buncombe County, North Carolina)

Located 3.3 miles northwest along the Bull Gap road from the high school at Swannanoa, on the property of the Asheville Farm School, 25 feet southwest of Riceville road, in fence line, 10 feet south of farm road, 900 feet south-east of Berea Church, 8.4 feet southeast of fence corner, 47.8 feet west of a painted fence post. A standard tablet stamped "H 129 1935" and set in top of a concrete post.

ELEVATION: 2212.870 feet or 674.484 meters (T-2)

**HIGH WINDY F. T.** (TVA, 1941; Buncombe County, North Carolina)

Located 3.2 miles (airline) southwest of Black Mountain.

Station is fire tower on High Windy.

GRID POSITION (N. C.): X = 1,007,679.0; Y = 678,835.6 (T-4)

ELEVATION (EAVES): 4408 feet (T-5)

**J 129** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 5.2 miles northwest along the Bull Gap road from the high school at Swannanoa, 48 yards southwest of the Riceville Church, at the intersection of a northeast-southwest road, 27 yards northwest of the side road, and 8 yards northeast of the center line of the Bull Gap road. A standard tablet stamped "J 129 1935" and set in the top of a concrete post.

ELEVATION: 2290.986 feet or 698.294 meters (T-2)

**J 135** (USC&GS, 1935; Yancey County, North Carolina)

Located about 8.7 miles south along the Wilson Toll Road from the junction of State Highway 197 at Murchison, at the fourth sharp horseshoe curve from Bear Gap, 4 yards south of the center line of the road at a point where it is widened for a car pass, and in a rock cliff. A standard tablet stamped "J 135 1935".

ELEVATION: 4968.930 feet or 1514.533 meters (T-2)

**K 129** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 6.1 miles northwest along the Bull Gap road from the high school at Swannanoa, at the intersection of the road and Bull Creek, 20 yards north of the creek, 29 yards west of the center line of the road, 6 yards north of a log spring house, 3 yards south of a 48-inch white oak tree, and in a rock outcrop. A standard tablet stamped "K 129 1935".

ELEVATION: 2282.735 feet or 695.779 meters (T-2)

**K 135** (USC&GS, 1935; Yancey County, North Carolina)

Located about 9.7 miles south along the Wilson Toll Road from the junction of State Highway 197 at Murchison, about 0.2 miles south of an abandoned road grader, at an abandoned road, at the second horseshoe curve from Bear Gap, and 10 yards south of the center line of the road. A standard tablet stamped "K 135 1935" and set in the top of a concrete post.

ELEVATION: 5335.235 feet or 1626.183 meters (T-2)

**K 139** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 2.4 miles east along the Reems Creek road from Beech, at Blackberry Inn, 26 yards east of the center line of the road, 12 yards west of a log cabin named "Wildcat", and in a rock outcrop. A standard tablet stamped "K 139 1935".

ELEVATION: 3299.304 feet or 1005.630 meters (T-2)

**KITSUMA** (USFS, ? ; McDowell County, North Carolina)

Located about 3 miles east of Black Mountain, and 1/2 mile southeast of Swannanoa Gap, on west end and highest point of Kitsuma Mt. (Young's Ridge). To reach from Asheville, drive east 14 miles to Black Mountain, from there drive east on Highway 70 for 3.0 miles, turn right opposite eastern entrance to Southern Baptist Assembly Hall, proceed 200 feet and take dirt road into woods, follow woods road for 0.6 miles to gap and cultivated field (keeping to right at all road forks), leave car in gap and take trail northeast 1/2 mile to top of ridge and station. A standard U. S. Forestry Service tablet stamped "KITSUMA USGS, 1934" and set in concrete post.

Reference Mark 1: 11.8 feet S 52° W to drill hole in rock outcrop.

Reference Mark 2: 22.5 feet N 15° W to drill hole in rock outcrop.

GEODETTIC POSITION: Lat. = 35°37'11.562"; Long. = 82°15'38.251" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Black Knob	49°25'14.2"	229°22'18.5"	4.000499	6.2
Craggy	131 08 24.6	311 04 19.1	4.147822	8.7
Mitchell	178 31 45.9	358 31 36.3	4.206151	10.0
Cross	352 28 56.4	172 29 16.8	3.830281	4.2

GRID POSITION (N. C.): X = 1,031,115.3; Y = 696,429.4 (G-3)

ELEVATION: 3195 feet (T-5)

**L 129** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 6.9 miles northwest along the Bull Gap road from the high school at Swannanoa, at the intersection of Bull Creek, about 1.6 miles south of Bull Gap, 7 yards west of the center line of the road, 5 yards south of the creek, and in a large granite boulder. A standard tablet stamped "L 129 1935".

ELEVATION: 2424.464 feet or 738.978 meters (T-2)

**L 135** (USC&GS, 1935; Yancey County, North Carolina)

Located about 10.8 miles south along the Wilson Toll Road from the junction of State Highway 197 at Murchison, about 0.2 miles south of a water course, 8 yards south of a wooden culvert, and 5 yards east of the center line of the road. A standard tablet stamped "L 135 1935" and set in the top of a concrete post.

ELEVATION: 5587.764 feet or 1703.154 meters (T-2)

**L 139** (USC&GS, 1935; Buncombe County, North Carolina)

Located about 1.4 miles east along the Reems Creek road from Beech, about 32 yards west of the center line of the Camp Sequoyah road, 6 yards north of the center line of the main road, in a field, and 1 yard north of a fence. A standard tablet stamped "L 139 1935" and set in the top of a concrete post.

ELEVATION: 2726.455 feet or 831.025 meters (T-2)

**LANES PINNACLE** (USFS, ? ; Buncombe County, North Carolina)

Located about 9 miles northeast of Asheville, and 6 miles south-east of Weaverville, and 6 miles north of Swannanoa, on U. S. Government land on peak known as Lanes Pinnacle. To reach from Weaverville, drive north on highway toward Burnsville, at distance of 4.4 miles, turn right onto highway

and proceed 9 miles to Barnardsville, take road south leading to Craggy Mountain for a distance of 8.5 miles to first gap, leave car and take trail southwest around the south slope of Snowball Mountain, follow ridge and trail along boundary of Asheville watershed a distance of 2 miles across first peak and onto second and highest peak. A standard tablet stamped "NO. 130 1933".

GEODETIC POSITION: Lat. = 35°40'51.813"; Long. = 82°25'17.599" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Rice	65°41'18.5"	245°38'55.0"	3.831997	4.2
Britten	120 10 33.6	300 07 35.1	3.949113	5.5

GRID POSITION (N. C.): X = 984,081.4; Y = 720,293.5 (G-3)  
ELEVATION: 5230 feet (T-5)

**LHT 1805** (TVA, 1939; Buncombe County, North Carolina)

Located 4.2 miles northwest of post office in Fairview, via U. S. Highway 74, on edge of highway right-of-way, just east of Minehole Gap, 3.3 miles northwest of Fairview School, on south side of highway, 29 feet from center line of highway, 29.5 feet west of drive to Dr. W. L. Granthans house, 37 feet northwest of west stone gate post, 9.5 feet west of corner post of woven wire fence, 1.5 feet north of woven wire fence at second fence post west of corner post, 32 feet southeast of mailboxes. A standard tablet stamped "LHT 1805 1941" and set in concrete post.

Reference Mark 1: 88.0 feet N 05° E to telephone pole No. 142 across highway.

Reference Mark 2: 43.0 feet S 70° E to 12-inch black locust tree.

Reference Mark 3: 38.2 feet S 20° E to 15-inch double poplar tree.  
ELEVATION: 2550.615 feet or 777.429 meters (T-2)

**LHT 1806** (TVA, 1939; Buncombe County, North Carolina)

Located 3.5 miles northwest of post office in Fairview, via U. S. Highway 74, southeast of Minehole Gap, 2.6 miles northwest of Fairview School, on northeast side of highway, 26 feet from center line of highway, on right bank of small branch, 74.5 feet north of east headwall of concrete culvert, 64.6 feet south of power pole, approximately 400 feet southeast of two-story frame house unpainted, under power line. A standard tablet stamped "LHT 1806 1941" and set in concrete post.

Reference Mark 1: 49.0 feet S 70° E to 14-inch white walnut tree.

Reference Mark 2: 16.0 feet N 30° W to 24-inch forked apple tree.

Reference Mark 3: 74.4 feet S 35° W to telephone pole No. 167.

ELEVATION: 2412.118 feet or 735.215 meters (T-2)

**LHT 1807** (TVA, 1939; Buncombe County, North Carolina)

Located 2.6 miles northwest of post office in Fairview, via U. S. Highway 74, 1.7 miles northwest of Fairview School, on northeast side of U. S. Highway 74, 15.5 feet from center line of highway, set horizontally and flush in east end of northeast headwall of concrete bridge over Gap Creek, just over east wingwall to bridge, approximately same elevation as center line of highway and under power line. A standard tablet stamped "LHT 1807 1941".

Reference Mark 1: 43.8 feet Southeast to power pole.

Reference Mark 2: 30.8 feet North to 14-inch poplar tree on left bank of creek.

Reference Mark 3: 83.3 feet Northwest to telephone pole No. 199.

ELEVATION: 2311.905 feet or 704.670 meters (T-2)

**LHT 1808** (TVA, 1939; Buncombe County, North Carolina)

Located 1.4 miles northwest of post office in Fairview, via U. S. Highway 74, 0.5 miles west of Fairview School, on south side of U. S. Highway 74, 29 feet from center line of highway, 42 feet west of center line of T-road to south, just southwest of Miller's Log Tourist Cabins, approximately 250 feet southwest of William Miller's two-story log residence painted green, 110 feet east of 36-inch black oak tree at curve of highway, 17.5 feet south of lone mailbox. A standard tablet stamped "LHT 1808 1941", and set in concrete post.

Reference Mark 1: 35.6 feet Due West to telephone guy pole.

Reference Mark 2: 62.5 feet N 25° W to telephone pole No. 239.

Reference Mark 3: 20.0 feet N 70° E to 15-inch Spanish oak tree.

ELEVATION: 2304.182 feet or 702.316 meters (T-2)

**LHT 1810** (TVA, 1941; Yancey County, North Carolina)

Located about 4.1 miles southeast along the Wilson Toll Road from the junction of the Blue Ridge Parkway at Balsam Gap, about 11.4 miles south of Murchison, 112 yards east of the junction of the Mt. Mitchell road, 120 feet west of the crossing of a small branch, 35 feet east of a small drain crossing the road, 18 feet south across the road from twin cherry trees, at the lower and north side of a hairpin curve, directly below a large stump, 8.5 feet south of the center line of the road, in a rock ledge, and 2-1/2 feet higher than the road. A standard tablet stamped "LHT 1810 1941".

ELEVATION: 5702.279 feet or 1738.058 meters (T-2)

**LHT 1811** (TVA, 1941; Buncombe County, North Carolina)

Located about 1.4 miles southwest along the Blue Ridge Parkway from the junction of the Wilson Toll Road at Balsam Gap, about 3/4 mile northeast of Locust Knob, 105 yards east of a large rock formation on the right-of-way, 15 yards south of station 74 + 50, and in a rock ledge overlooking North Fork Swannanoa River. A standard tablet stamped "LHT 1811 1941".

ELEVATION: 5210.157 feet or 1588.059 meters (T-2)

**LHT 1812** (TVA, 1941; Buncombe County, North Carolina)

Located about 1.7 miles southwest along the Blue Ridge Parkway from the junction of the Wilson Toll Road at Balsam Gap, about 0.4 miles northeast of Locust Knob, 700 feet northwest of the intersection of two ridges, 200 feet west of the junction of a trail, 70 feet northeast of the center line of the highway at station 89 + 50, 20 feet northeast of a 24-inch painted oak tree, on a small knoll, and in a large boulder. A standard tablet stamped "LHT 1812 1941".

ELEVATION: 5240.396 feet or 1597.276 meters (T-2)

**LHT 1813** (TVA, 1941; Buncombe County, North Carolina)

Located about 2.7 miles southwest along the Blue Ridge Parkway from the junction of the Wilson Toll Road at Balsam Gap, 2.2 miles northeast of the third tunnel on the highway from Asheville, 65 feet west of the center line of the highway at station 140 + 00, and in a large triangular boulder. A standard tablet stamped "LHT 1813 1941".

ELEVATION: 5520.845 feet or 1682.757 meters (T-2)

**LHT 1814** (TVA, 1941; Buncombe County, North Carolina)

Located about 3.9 miles southwest along the Blue Ridge Parkway from

the junction of the Wilson Toll Road at Balsam Gap, 1.0 miles northeast of the third tunnel on the highway from Asheville, 0.8 miles southwest of Bull Mountain, on the top of a ridge between Craggy Dome and Bullhead Mountain, 75 feet east of the center line of the highway at station 194 + 50, at the intersection of a trail, and in a rock outcrop. A standard tablet stamped "LHT 1814 1941".

ELEVATION: 5606.377 feet or 1708.827 meters (T-2)

**LHT 1815** (TVA, 1941; Buncombe County, North Carolina)

Located about 4.5 miles southwest along the Blue Ridge Parkway from the junction of the Wilson Toll Road at Balsam Gap, about 20.2 miles northeast of the Arcade Building in Asheville, 0.4 miles from the northeast end of the highway tunnel at Craggy Pinnacle, on the east side of a saddle just east of Craggy Pinnacle, 21 paces south of the center line of the highway at station 224 + 50, and in a rock outcrop. A standard tablet stamped "LHT 1815 1941".

ELEVATION: 5659.267 feet or 1724.948 meters (T-2)

**LHT 1816** (TVA, 1941; Buncombe County, North Carolina)

Located 19.8 miles northeast along State Highway 694 and Blue Ridge Parkway from Arcade Building in Asheville, at entrance of third tunnel from Asheville, 45 feet southeast of southwest tunnel entrance, 33 feet west of 8-inch buckeye tree, in rock under overhanging rock shelf, 10 feet lower than entrance to tunnel. A standard tablet stamped "LHT 1816 1941".

ELEVATION: 5514.500 feet or 1680.823 meters (T-2)

**LHT 1817** (TVA, 1941; Buncombe County, North Carolina)

Located about 18.5 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, 500 feet southwest of the second tunnel from Asheville, in the edge of the woods on a rocky hillside above a fill, 65 feet west of the center line of the highway at station 312 + 70, 18 feet west of a 24-inch black oak tree, 12 feet northeast of a 12-inch buckeye tree, and 11 feet southeast of an 8-inch beech stump. A standard tablet stamped "LHT 1817 1941" and set in the top of a concrete post.

ELEVATION: 5256.174 feet or 1602.085 meters (T-2)

**LHT 1818** (TVA, 1941; Buncombe County, North Carolina)

Located about 17.6 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, 0.9 miles southeast of the junction with Craggy Garden (Mineral Creek) road, on the side of a slope, 60 feet northeast of the center line of the highway at station 363 + 75, 27 feet north of a 10-inch buckeye tree, and 7.5 feet northwest of a 30-inch buckeye tree. A standard tablet stamped "LHT 1818 1941" and set in the top of a concrete post.

ELEVATION: 4941.762 feet or 1506.252 meters (T-2)

**LHT 1819** (TVA, 1941; Buncombe County, North Carolina)

Located about 16.4 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, 0.2 miles southwest of the junction of the Craggy Garden (Mineral Creek) road, on the outside of a curve in the highway, north of a deep earth cut, 40 feet west of the center line of the highway at station 422 + 50, 39.5 feet northwest of the south headwall of a culvert, 33 feet southeast of a 14-inch buckeye tree, and 18 feet southwest of an 18-inch buckeye tree. A standard tablet stamped "LHT 1819 1941" and set in the top of a concrete post.

Note: Searched for but not recovered, June, 1946. This mark may have been destroyed by road construction.

ELEVATION: 4703.035 feet or 1433.488 meters (T-2)

**LHT 1820** (TVA, 1941; Buncombe County, North Carolina)

Located about 15.4 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, 6.3 miles northeast of Bull Gap, on the bank of a cut, 45 feet west of the center line of the highway at station 477 + 55, 21.5 feet west of a 30-inch black oak tree, 15.5 feet east of a 10-inch white oak tree, and 11 feet south of a 30-inch oak tree with a large hacked mark on the trunk 2 feet above the ground. A standard tablet stamped "LHT 1820 1941" and set in the top of a concrete post.

ELEVATION: 4518.003 feet or 1377.090 meters (T-2)

**LHT 1821** (TVA, 1941; Buncombe County, North Carolina)

Located about 14.5 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, about 5.4 miles northeast of Bull Gap, on the northwest side of the highway, at station 527 + 10, at the beginning of a sharp curve around the head of a valley 30 feet northwest of a speed-limit sign, 18.2 feet south-southwest of an 18-inch ash tree, 16 feet east-southeast of a 5-inch buckeye tree, 12.5 feet southwest of the south headwall of a culvert, and in a large boulder. A standard tablet stamped "LHT 1821 1941".

Note: Searched for but not recovered, June, 1946. This mark may have been destroyed by road construction.

ELEVATION: 4354.102 feet or 1327.133 meters (T-2)

**LHT 1822** (TVA, 1941; Buncombe County, North Carolina)

Located about 13.5 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, 4.4 miles northeast of Bull Gap, on a small mound opposite a deep cut in the highway, 40 feet southeast of the center line of the highway at station 575 + 50, 37 feet southwest of a 5-inch hickory tree, 25.5 feet north of an 8-inch oak tree, and 23 feet northwest of a 10-inch oak tree. A standard tablet stamped "LHT 1822 1941" and set in the top of a concrete post.

ELEVATION: 4200.825 feet or 1280.414 meters (T-2)

**LHT 1823** (TVA, 1941; Buncombe County, North Carolina)

Located about 12.7 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, about 3.6 miles east-northeast of Bull Gap, in a small hollow, 40 feet northwest of the center line of the highway at station 622 + 03, at a culvert, 31 feet southwest of the intersection of the south headwall and the wingwall, 22 feet south of a 40-inch oak tree, and 10 feet north of a 10-inch oak tree. A standard tablet stamped "LHT 1823 1941" and set in the top of a concrete post.

ELEVATION: 3990.028 feet or 1216.163 meters (T-2)

**LHT 1824** (TVA, 1941; Buncombe County, North Carolina)

Located about 10.8 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building in Asheville, 1.7 miles southeast of the junction of the Ox Creek road at Bull Gap, 100.5 feet southeast of the intersection of the driveway to the National Park Service field office,

at the tip of the V formed by the entrance drive, 107 feet east-southeast of a 30-inch white oak tree, 61.5 feet northwest of a 30-inch poplar tree, and 60 feet southeast of the center line of the highway at station 730 + 00. A standard tablet stamped "LHT 1824 1941" and set in the top of a concrete post.

Note: Searched for but not recovered, June, 1946.  
ELEVATION: 3532.188 feet or 1076.613 meters (T-2)

**LHT 1825 (TVA, 1941; Buncombe County, North Carolina)**

Located about 9.8 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building at Asheville, 0.7 miles southeast of the junction of the Ox Creek road at Bull Gap, 145.5 feet north-northwest of the center of the north entrance of the first tunnel on Skyline Drive from Asheville, 72 feet north-northwest of a 24-inch poplar tree, 24 feet northeast of a 10-inch black gum tree, and 42 feet west of the center line of the highway at station 779 + 50. A standard tablet stamped "LHT 1825 1941" and set in the top of a concrete post.

ELEVATION: 3313.966 feet or 1010.099 meters (T-2)

**LHT 1826 (TVA, 1941; Buncombe County, North Carolina)**

Located about 11.9 miles northeast along State Highway 694 and the Blue Ridge Parkway from the Arcade Building at Asheville, 2.8 miles east of the junction of the Ox Creek road at Bull Gap, in a small hollow, 56.5 feet northeast of an 8-inch black oak tree, 22 feet southeast of a 20-inch hickory tree, 51 feet west-southwest of an 8- by 12-inch storm sewer, 45 feet northwest of the center line of the highway at station 667 + 40, and 2 feet north of a 6-inch stump. A standard tablet stamped "LHT 1826 1941" and set in the top of a concrete post.

ELEVATION: 3810.006 feet or 1161.292 meters (T-2)

**LHT 1827 (TVA, 1941; Buncombe County, North Carolina)**

Located 17.7 miles from Bat Cave Post Office, 9.3 miles from intersection of U. S. Highway 64 and State Highway 9, 0.9 miles from Black Mountain Post Office, 35.0 feet N 50° E of center line of State Highway 9 (Lakey Gap Road), on F. E. Steps' property, 400 feet east of one-story frame house in oak grove, 200 feet north of T-road intersection leading to Lynch Cove, 75 feet east of T-road intersection, top of embankment, and 10 feet above road elevation. A standard tablet stamped "LHT 1827 1941", set in concrete post.

Reference Mark 1: 10.25 feet S 10° W to 6-inch red oak.  
Reference Mark 2: 17.65 feet N 10° E to 6-inch hickory.  
Reference Mark 3: 14.50 feet N 40° E to 3-inch white oak.

ELEVATION: 2354.746 feet or 717.728 meters (T-2)

**LHT 1828 (TVA, 1941; Buncombe County, North Carolina)**

Located 17.0 miles from post office in Bat Cave, 8.6 miles from intersection of U. S. Highway 64 and State Highway 9, 1.6 miles from post office in Black Mountain, 49.0 feet S 25° W of center line of Highway 9 (Lakey Gap road), 350 feet west of apex of hairpin curve, 300 feet S 65° E of intersection of road to west with Highway 9, 300 feet S 70° W of concrete bridge over Britten Cove Creek, 2.2 miles from Lakey Gap, in grassy plot where house has burned. A standard tablet stamped "LHT 1828 1941" and set in concrete post.

Reference Mark 1: 26.0 feet S 75° W to 20-inch crab apple.  
Reference Mark 2: 18.9 feet S 40° E to gate post.  
Reference Mark 3: 20.3 feet N 35° W to 4-inch persimmon.

ELEVATION: 2455.244 feet or 748.360 meters (T-2)

**LHT 1829 (TVA, 1941; Buncombe County, North Carolina)**

Located 16.0 miles from post office in Bat Cave, 7.6 miles from intersection of U. S. Highway 64 and Highway 9, 2.6 miles from Black Mountain Post Office, 31 feet S 10° E of center line of Highway 9, on the Jackson property, 1.2 miles from Lakey Gap, opposite hairpin curve, on fill between steep cut and sharp drop off of Highway 9. A standard tablet stamped "LHT 1829 1941" and set in concrete post.

Reference Mark 1: 24.9 feet S 70° W to 4-inch locust.  
Reference Mark 2: 34.0 feet N 80° W to highway "Curve" sign post.  
Reference Mark 3: 67.1 feet N 10° W to 30-inch red oak.

ELEVATION: 2697.035 feet or 822.058 meters (T-2)

**LHT 1830 (TVA, 1941; Buncombe County, North Carolina)**

Located 15.3 miles from Bat Cave, 6.4 miles from intersection of U. S. Highway 64 and Highway 9, 3.3 miles from Black Mountain Post Office, 34 feet N 80° E from center line of Highway 9 (Lakey Gap road), on the Jackson property, 15 feet north of trail into woods, 4 feet below road at edge of embankment, edge of woods, east side of road at sharp curve, 0.5 miles from Lakey Gap. A standard tablet stamped "LHT 1830 1941" and set in concrete post.

Reference Mark 1: 21.9 feet N 15° E to 10-inch red oak.  
Reference Mark 2: 37.0 feet N 10° W to 10-inch red oak.  
Reference Mark 3: 13.5 feet S 60° E to 2-inch red oak.

ELEVATION: 2895.463 feet or 882.539 meters (T-2)

**LHT 1831 (TVA, 1941; Buncombe County, North Carolina)**

Located 14.8 miles from Bat Cave Post Office, 6.4 miles from intersection of U. S. Highway 64 and Highway 9, 3.8 miles from Black Mountain Post Office, 31.0 feet N 60° E from center line of Highway 9, on the Jackson property, at Lakey Gap, 30 feet east of trail down hollow, 3 feet north of Blue Ridge trail, 50 feet N 10° E of Lakey Gap. A standard tablet stamped "LHT 1831 1941" and set in concrete post.

Reference Mark 1: 10.4 feet Due East to 6-inch poplar.  
Reference Mark 2: 8.9 feet N 40° E to 4-inch elm.  
Reference Mark 3: 25.4 feet N 30° W to 6-inch white oak.

ELEVATION: 3028.393 feet or 923.056 meters (T-2)

**LHT 1832 (TVA, 1941; Buncombe County, North Carolina)**

Located 13.9 miles from Bat Cave Post Office, 5.5 miles from intersection of U. S. Highway 64 and Highway 9, 4.7 miles from Black Mountain Post Office, 39.0 feet east of center line of Highway 9, on the Robinson property, 66 feet south of intersection of Highway 9 and sawmill road, 21.0 feet west of southeast end of concrete headwall, 20.0 feet south of drain, in edge of woods on embankment. A standard tablet stamped "LHT 1832 1941" and set in concrete post.

Reference Mark 1: 11.2 feet S 10° W to 8-inch white oak.  
Reference Mark 2: 6.9 feet Due North to 24-inch red oak stump.

ELEVATION: 2815.923 feet or 858.295 meters (T-2)

**LHT 1833 (TVA, 1941; Buncombe County, North Carolina)**

Located 12.9 miles from Bat Cave Post Office, 5.7 miles from Black

Mountain Post Office, 4.5 miles from intersection of U. S. Highway 64 and Highway 9, 45.0 feet northeast of center line of Highway 9, on property of Aale Kirstein, 400 feet east of one-story frame gray dwelling house, 350 feet S 70° E of intersection of Highway 9 and Flat Creek Road, 37.5 feet N 70° E of northeast corner of headwall, 25.0 feet S 60° E of trail leading to north, set on embankment above road. A standard tablet stamped "LHT 1833 1941" and set in concrete post.

Reference Mark 1: 3.6 feet S 10° W to 3-inch pine.  
Reference Mark 2: 7.7 feet S 40° E to 12-inch pine.  
Reference Mark 3: 11.8 feet S 75° E to root cluster of maples.

ELEVATION: 2621.120 feet or 798.919 meters (T-2)

**LHT 1834 (TVA, 1941; Buncombe County, North Carolina)**

Located 11.9 miles from Bat Cave Post Office, 6.7 miles from Black Mountain Post Office, 3.5 miles from intersection of Highway 64 and Highway 9, 47.0 feet S 40° W of center line of Highway 9, on property of George Garrison, 450 feet north from intersection of Crooked Creek and Highway 9, 300 feet southwest of Crooked Creek, on 4 foot embankment above road at edge of woods. A standard tablet stamped "LHT 1834 1941" and set in concrete post.

Reference Mark 1: 10.9 feet S 20° W to 2-inch pine.  
Reference Mark 2: 17.5 feet S 65° W to 8-inch pine.  
Reference Mark 3: 18.75 feet Due West to 2-inch sassafras.

ELEVATION: 2524.339 feet or 769.420 meters (T-2)

**LHT 1835 (TVA, 1941; Buncombe County, North Carolina) *Good S/90 LWA***

Located 11.3 miles from Bat Cave Post Office, 7.3 miles from Black Mountain Post Office, 2.9 miles from intersection of U. S. Highway 64 and Highway 9, 10.5 feet southeast of center line of Highway 9, 115 feet northeast of residence of Floyd March, 3.2 feet below top of hand rail of concrete bridge over Broad River. A standard tablet stamped "LHT 1835 1941" and set in base of bridge rail, 1 foot above floor.

Reference Mark 1: 4.6 feet N 30° E to northeast corner of bridge.  
Reference Mark 2: 32.0 feet S 50° W to southwest corner of bridge.

ELEVATION: 2391.235 feet or 728.850 meters (T-2)

**LHT 1836 (TVA, 1941; Buncombe County, North Carolina)**

Located 10.1 miles from Bat Cave Post Office, 8.5 miles from Black Mountain Post Office, 1.7 miles from intersection of U. S. Highway 64 and Highway 9, 40 feet N 30° E of center line of Highway 9, on the property of L. E. Brown, 75 feet northwest of sharp curve in road, 75 feet west of drain and culvert, 3 feet southwest of fence line, set in small hollow at toe of slope. A standard tablet stamped "LHT 1836 1941" and set in concrete post.

Reference Mark 1: 10.2 feet N 65° W to 8-inch dogwood.  
Reference Mark 2: 6.6 feet East to fence post.  
Reference Mark 3: 31.7 feet S 70° E to 20-inch hickory.

ELEVATION: 2414.985 feet or 736.089 meters (T-2)

**LHT 1837 (TVA, 1941; Buncombe County, North Carolina)**

Located 23.5 miles from post office in Hendersonville, 9.8 miles from post office in Black Mountain, 8.8 miles from post office in Bat Cave, 48.0 feet N 35° W of center line of Highway 9, on property of Randolph Taylor, 45 feet northeast from intersection of Highway 9 to Pentecostal Church driveway, 250 feet east from church, 15 feet north from top of embankment above road. A standard tablet stamped "LHT 1837 1941" and set in concrete post.

Reference Mark 1: 17.3 feet S 80° W to 2-inch pine.  
Reference Mark 2: 25.8 feet N 65° E to 3-inch locust.  
Reference Mark 3: 24.5 feet N 50° W to 3-inch poplar.

ELEVATION: 2223.365 feet or 677.683 meters (T-2)

**LHT 1837 A (TVA, 1941; Buncombe County, North Carolina)**

Located 10.2 miles from post office in Black Mountain, 8.4 miles from post office in Bat Cave, 23.1 miles from post office in Hendersonville, 98 feet S 65° E from intersection of U. S. Highway 64 and Highway 9, on the T. W. Kirby property, 100 feet west from Broad River, 58.2 feet N 70° W of north end of culvert, 50.0 feet north from Kirby Tourist Court, 3 feet east from retaining wall, 45 feet west of State Highway 9, in yard of tourist court. A standard tablet stamped "LHT 1837 A 1941" and set in concrete post.

Reference Mark 1: 7.75 feet S 15° W to 6-inch white pine.  
Reference Mark 2: 16.85 feet Due South to southeast corner log cabin.  
Reference Mark 3: 36.2 feet S 25° E to northeast corner Kirby's filing station.

ELEVATION: 2182.935 feet or 665.360 meters (T-2)

**LHT 1838 (TVA, 1941; Buncombe County, North Carolina)**

Located 21.0 miles from post office in Hendersonville, 11.3 miles from post office in Black Mountain, 7.3 miles from post office in Bat Cave, 7.0 miles from intersection of U. S. Highways 64 and Highway 9, on property of J. A. Hall, 110 feet west to bridge over Broad River, 30 feet west from J. A. Hall's residence, 35 feet east of log hut, 15 feet east from center line of Shumont Road, in yard of J. A. Hall. A standard tablet stamped "LHT 1838 1941" and set in concrete post.

Reference Mark 1: 30.0 feet Sue South to 6-inch apple tree.  
Reference Mark 2: 4.35 feet S 55° E to 3-inch walnut.  
Reference Mark 3: 36.05 feet S 75° W to southeast corner of library - Broad River.

ELEVATION: 2099.635 feet or 639.970 meters (T-2)

**LHT 1839 (TVA, 1941; Buncombe County, North Carolina)**

Located 12.4 miles southeast of Black Mountain Post Office, 6.2 miles northeast of Bat Cave Post Office, 5.9 miles northeast of intersection of U. S. Highways 64 and 74, on U. S. Highway 64, 20 feet from center line, on property of Ed Gillam, 175 feet east of bridge over Sand Branch, 50 feet south of lumber pile, abandoned sawmill, 18 feet south of path to house, in southwest corner of yard. A standard tablet stamped "LHT 1839 1941" and set in concrete post.

Reference Mark 1: 73.95 feet N 70° E to southwest corner of house.  
Reference Mark 2: 4.3 feet S 50° E to "Jesus is Coming" sign post.  
Reference Mark 3: 21.7 feet S 10° W to "Narrow Bridge" sign post.

ELEVATION: 2040.048 feet or 621.808 meters (T-2)

**LHT 1840 (TVA, 1941; Buncombe County, North Carolina)**

Located 20.0 miles northeast from Hendersonville Post Office, 13.3 miles southeast from Black Mountain Post Office, 5.3 miles from Bat Cave Post Office, 5.0 miles from intersection of U. S. Highways 64 and 74, on U. S. Highway 64, 31.5 feet northeast of center line, on Albert Nanney's property, 1000

feet south from two-story frame house, 50 feet northwest of edge of woods, 40 feet northwest from southeast end of apple orchard, under the last tree in southeast end of orchard, at toe of slope. A standard tablet stamped "LET 840 1941" and set in concrete post.  
 Reference Mark 1: 5.45 feet N 40° W to 10-inch apple tree.  
 Reference Mark 2: 59.9 feet S 40° E to 5-inch white oak.  
 ELEVATION: 2007.342 feet or 611.839 meters (T-2)

LITTLE SNOWBALL F. T. (TVA, 1941; Buncombe County, North Carolina)  
 Located about 9 miles north of Swannanoa, about 1 mile north of Blackberry Inn. Station is fire tower on Little Snowball Mountain.  
 GRID POSITION (N. C.): X = 983,059.6; Y = 736,686.0 (T-4)  
 ELEVATION (EAVES): 4734 feet (T-5)

LR 697 (TVA, 1941; Buncombe County, North Carolina)  
 Located about 4.2 miles northeast of Weaverville. To reach from the post office in Weaverville, drive north on U. S. Highways 19 and 23 for 2.2 miles, turn right on old black top road and drive 0.8 miles, turn right on dirt road and go 0.3 miles, continue left on dirt road for 2.1 miles to road, take right fork and go 2.2 miles to dairy barn and end of road, walk south 1500 feet to top of ridge in gap. Station is 6 feet southeast of fence and 95 feet southwest of lowest point in gap. A 1- by 1-inch angle iron stamped "TVA LR 697".  
 Reference Mark 1: 24.6 feet S 68° W to nail and washer in 24-inch locust.  
 Reference Mark 2: 7.7 feet West to nail and washer in 12-inch snag used as fence post.  
 Reference Mark 3: 7.9 feet North to nail and washer in fence post  
 GRID POSITION (N. C.): X = 963,867.1; Y = 737,259.8 (T-4)  
 ELEVATION: 3672 feet (T-5)

M 129 (USC&GS, 1935; Buncombe County, North Carolina)  
 Located about 0.6 miles south along the Swannanoa road from the intersection of the Blue Ridge Parkway at Bull Gap, 23 yards southwest of a spring, 5 yards north of a summer cabin, and 5 yards west of the center line of the road. A standard tablet stamped "M 129 1935" and set in the top of a concrete post.  
 ELEVATION: 2838.643 feet or 865.220 meters (T-2)

M 139 (USC&GS, 1935; Buncombe County, North Carolina)  
 Located about 0.4 miles east along the Reems Creek road from Beech, about 8 yards north of the center line of the road, and 2 yards east of Browns Chapel Church. A standard tablet stamped "M 139 1935" and set in the top of concrete post.  
 ELEVATION: 2487.262 feet or 758.119 meters (T-2)

M 328 (TVA, 1941; Buncombe County, North Carolina)  
 Located in northeast corner of Quadrangle 201 SW. To reach from Asheville, drive southeast along U. S. Highway 70 toward Black Mountain for 8.15 miles, turn left along old highway and go 0.6 miles, turn left along black top road and go 1.25 miles, turn right up left bank of hollow, go 0.75 miles to end of woods road, at small clearing in woods, park car and walk northeast for 0.5 miles up trail to small saddle in pasture, turn right and walk southwest 25 feet to small high top. Station is 40 feet west from woods and fence and 10 feet southeast from center line of small high top. A 1- by 1-inch angle iron.  
 Reference Mark 1: 22.0 feet S 03° W to 15-inch chestnut oak.  
 Reference Mark 2: 29.5 feet S 32° E to 12-inch chestnut oak.  
 Reference Mark 3: 5.5 feet N 12° E to 12-inch locust.  
 GRID POSITION (N. C.): X = 988,768.6; Y = 697,888.4 (T-4)  
 ELEVATION: 3332 feet (T-5)

M 329 (TVA, 1941; Buncombe County, North Carolina)  
 Located 1.2 miles (airline) east of Beetree Reservoir. To reach from Asheville, drive southeast along U. S. Highway 70 for 9.1 miles, take left along old highway and go 0.6 miles, turn left, go 1.4 miles along black top road, turn right up Beetree Creek, go 3.0 miles to Beetree Reservoir, go through gate across creek, turn right downstream to end of road and house, park car and walk east to top of small ridge and cleared right-of-way of water shed, follow cleared right-of-way up ridge to top of mountain at point where right-of-way turns north. Station is 30 feet north from angle in right-of-way and in center line of ridge, 6 feet east from fence line. A 1- by 1-inch angle iron.  
 Reference Mark 1: 9.2 feet N 06° W to 4-inch chestnut oak.  
 Reference Mark 2: 10.0 feet N 68° E to 4-inch chestnut oak.  
 Reference Mark 3: 4.3 feet S 14° E to 4-inch chestnut oak.  
 GRID POSITION (N. C.): X = 995,213.2; Y = 709,547.0 (T-4)  
 ELEVATION: 4702 feet (T-5)

M 330 (TVA, 1941; Buncombe County, North Carolina)  
 Located 2.0 miles (airline) west of Black Mountain. To reach from Asheville, drive southeast along U. S. Highway 70 for 9.1 miles, turn left along old Highway 90 for 2.0 miles to North Fork Swannanoa River, turn left up left bank of same, go 1.2 miles to Tuberculosis Hospital, continue 400 feet to station. Station is on west side of county road and on top of 5 foot cut in fence line. A 1- by 1-inch angle iron.  
 Reference Mark 1: 14.6 feet Northwest to 10-inch apple tree.  
 Reference Mark 2: 7.4 feet Southwest to fence post.  
 GRID POSITION (N. C.): X = 1,002,744.4; Y = 698,710.0 (T-4)  
 ELEVATION: 2357 feet (T-5)

M 331 (TVA, 1941; Buncombe County, North Carolina)  
 Located 4.5 miles (airline) north of Montreat. To reach from Asheville, drive southeast along U. S. Highway 70 for 14.6 miles to Black Mountain, continue east along Highway 70 for 1.3 miles to old toll road to Mt. Mitchell, turn left and go 13.2 miles up toll road to Skyline Drive, turn left and go 0.4 miles along Skyline Drive to sharp curve right, park car and walk southwest along center line of ridge about 1 mile to second small top and station. Station is in center line of ridge and 20 feet southwest from highest point of top. A 1- by 1-inch angle iron.  
 Reference Mark 1: 4.8 feet West to 8-inch yellow wood.  
 Reference Mark 2: 5.3 feet North to 10-inch yellow wood.  
 Reference Mark 3: 3.7 feet Southeast to 4-inch yellow wood.  
 GRID POSITION (N. C.): X = 1,017,110.8; Y = 730,697.7 (T-4)  
 ELEVATION: 5124 feet (T-5)

M 332 (TVA, 1941; Buncombe County, North Carolina)  
 Located 4.5 miles (airline) east of Fairview. To reach from Asheville,

drive southeast 14.0 miles along U. S. Highway 74, turn left thru stone gate posts and go 1.5 miles, turn right at Pleasant Grove School, go 2.0 miles, turn right up left bank of Garren Creek, go 0.5 miles, turn left and cross creek, continue up hollow 0.4 miles to last house and end of road, park car and walk south 1500 feet along log trail to top of mountain and saddle. Turn right and walk 600 feet to small round top knoll and station. A 1- by 1-inch angle iron.  
 Reference Mark 1: 87.2 feet S 25° E to 12-inch hickory  
 Reference Mark 2: 56.4 feet N 85° E to high point on limestone stone.  
 GRID POSITION (N. C.): X = 1,011,626.8; Y = 655,003.2 (T-4)  
 ELEVATION: 3826 feet (T-5)

MONTREAT 1 (USGS, 1934; Buncombe-McDowell-Yancey Counties, North Carolina)  
 Located 12 miles northeast of Black Mountain (city), on a sharp rocky top commonly called the Pinnacle. This top is the intersection of three county lines. Drill hole in rock.

GEODETIC POSITION: Lat. = 35°42'14.888"; Long. = 82°16'32.015" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Mitchell	187°56'39.9"	7°57'01.7"	3.831646	4.2
Horse Gap	232 45 15.9	52 49 18.7	4.117754	8.1
Green Knob	249 38 09.3	69 39 57.5	3.696395	3.1

GRID POSITION (N. C.): X = 1,027,691.0; Y = 727,225.9 (G-3)  
 ELEVATION: 5664 feet (T-5)

MONTREAT 3 (USGS, 1934; Buncombe County, North Carolina)  
 Located about 2.5 miles northeast of Swannanoa, and 4 miles northwest of Black Mountain, on Great Craggy Mts. on the Grove Estate. To reach from Black Mountain Post Office, take Highway 19 toward Asheville for 3.2 miles to Mountain Orphanage road, turn right and drive 1.6 miles to entrance to Lake Baden Inn, turn left around inn for 0.7 miles, leave car and follow old abandoned road west for 3/4 miles to top of ridge, turn left on ridge trail south for 1/2 mile to station. Station is drill hole in rock set in place.

GEODETIC POSITION: Lat. = 35°37'56.798"; Long. = 82°23'01.381" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Cedar Cliff	36°19'04.5"	216°16'40.4"	4.022149	6.5
Spivey	81 52 52.7	261 43 30.5	4.389960	15.3
Rice	105 07 59.5	285 04 16.7	3.998334	6.2

GRID POSITION (N. C.): X = 994,708.8; Y = 702,224.2 (G-3)  
 ELEVATION: 3825 feet (T-5)

MONTREAT 5 (USGS, 1934; Buncombe County, North Carolina)  
 Located about 4.0 miles due north of Black Mountain, on west slope of Walkertown Mountain. The station is on a low top which is on a spur which extends west from Walkertown Mountain and is about 1.5 miles west and 0.6 miles south of Greybeard Mountain. To reach from Asheville Post Office, take highway west toward Black Mountain for a distance of 12.8 miles, turn left onto Lake Eden road opposite State Experiment Farm Headquarters, proceed up main road along the North Fork of Swannanoa River for a distance of 5.7 miles to road fork near hunting lodge of Black Mountain Rod and Gun Club, from this point the station can be seen on a wooded top 1/2 miles S 75° E. Leave car here and walk up ridge to station. Station is a drill hole in rock set in place.

GEODETIC POSITION: Lat. = 35°40'20.246"; Long. = 82°19'25.858" (G-3 unchecked position)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Montreat 3	50°49'19.9"	230°47'14.3"	3.844828	4.3
Craggy	125 10 13.6	305 08 20.8	3.774423	3.7

MONTREAT 6 (USGS, 1934; Buncombe County, North Carolina)  
 Located about 9 miles northeast of Asheville and 5 miles southwest of Black Mountain, on Flattop Mountain, on property of Half Circle Ranch. To reach from Asheville, drive east on Highway 74 to bridge over Swannanoa River, continue on highway 74 a distance of 4.9 miles, turn left and drive 1.6 miles to crossroad, turn left and drive 0.7 miles to residence of W. N. Camp, take old road about 3 miles to top of mountain, turn left through gate and proceed across open fields to northwest fence corner. Station is a triangle blazed on 14-inch white oak tree.

Reference Mark is drill hole in rock 15.9 feet N 70° W of station mark.  
 GEODETIC POSITION: Lat. = 35°34'04.389"; Long. = 82°23'02.375" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Cedar Cliff	78°01'37.2"	257°59'13.9"	3.802471	3.9
Rice	135 30 32.7	315 26 50.7	4.136285	8.5
Bearwallow	348 27 31.7	168 28 27.8	4.084012	7.5

GRID POSITION (N. C.): X = 993,826.0; Y = 678,743.8 (G-3)

MONTREAT 7 (USGS, 1934; Buncombe County, North Carolina)  
 Located about 6 miles southeast of Swannanoa, and 4.3 (airline) miles south of Black Mountain on Dill Knob, on property owned by Walter Cragg. To reach from Asheville, drive east on Highway 74 to Fairview, turn left on Garren Creek road and proceed 2.5 miles, turn left up Flat Creek Road and proceed 1.6 miles, leave car and take trail across creek and up old road about 1/4 mile to an orchard, thence take dim trail up ridge to extreme top, about 1-1/2 miles. Station is drill hole in rock set in place.

GEODETIC POSITION: Lat. = 35°33'20.627"; Long. = 82°18'13.057" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Gerton	23°16'36.5"	203°15'35.4"	3.826926	4.2
Cross	265 05 06.2	85 06 56.6	3.681376	3.0
Shumont	330 25 38.2	150 27 45.8	4.050055	7.0

GRID POSITION (N. C.): X = 1,017,565.4; Y = 673,517.0 (G-3)  
 ELEVATION: 3781 feet (T-5)

MONTREAT 8 (USGS, 1934; Buncombe County, North Carolina)  
 Located about 10 miles southeast of Asheville and 1-1/2 miles southwest of Fairview on a wooded ridge owned by Dr. T. J. Pittillo. To reach from Asheville Post Office, drive east on Highway 74 for a distance of 11.7 miles, turn right onto Cane Creek road and drive 1.7 miles, from this point the station is on ridge about 1000 feet northwest. Station is drill hole in rock set in place under a 20-inch triangular blazed pine tree.

GEODETIC POSITION: Lat. = 35°30'10.317"; Long. = 82°25'30.030" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Cedar Cliff	157°06'49.9"	337°05'52.3"	3.806134	4.0
Gerton	272 02 32.8	92 05 45.4	3.92495	5.2
Bearwallow	307 13 36.0	127 15 57.5	3.887893	4.8

GRID POSITION (N. C.): X = 980,819.3; Y = 655,511.5 (G-3)  
ELEVATION: 2309 feet (T-5)

**MONTREAT 10** (USGS, 1934; Buncombe County, North Carolina)  
Located about 4 miles southeast of Weaverville, and 7 miles north-east of Asheville, on wooded hilltop known as Kits Knob, and owned by Lancaster and Fred Acons. To reach from Weaverville Post Office take Highway 19 toward Asheville for 0.9 miles to Reems Creek road, turn left onto graveled road leading up Reems Creek, drive 4.7 miles and turn right on dirt road at schoolhouse, drive 0.5 miles and turn right on lane at home of Frank Barnett, leave car and take trail 1/2 mile south to station. Station mark is drill hole in rock set in place on crest of top.

GEODETIC POSITION: Lat. = 35°41'00.048"; Long. = 82°29'39.159" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Zillicoa	100°28'57.1"	280°24'02.6"	4.110765	8.0
Britten	165 10 37.3	345 10 11.4	3.639367	2.7

**MONTREAT 11** (USGS, 1934; Buncombe County, North Carolina)  
Located in the town of Black Mountain, about 1/2 mile east of center of town on north side of highway, on top of high school building. (The school is not to be confused with grade school building which is nearer town. Long brick chimney 30 feet high on top of building). Station mark is center of the chimney.

GEODETIC POSITION: Lat. = 35°37'18.385"; Long. = 82°18'51.845" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Craggy	147°39'48.7"	327°37'36.1"	4.028963	6.6
Kitsuma	272 27 21.1	92 29 13.9	3.688099	3.0

GRID POSITION (N. C.): X = 1,015,164.9; Y = 697,648.0 (G-3)

**MONTREAT 12** (USGS, 1934; Buncombe County, North Carolina)  
Located about 12 miles southeast of Asheville and 1 mile southeast of Fairview, on high wooded top owned by Mr. B. H. Ownes. To reach from Asheville Post Office, drive east on Highway 74 for a distance of 12.4 miles, turn right at Gulf Service Station and drive 0.4 miles to church, turn left and drive 0.2 miles to house, leave car here and follow old trail out by barn and then southeast up hill to station. Station is drill hole in rock outcrop directly under 33 inch triangular blazed oak tree.

GEODETIC POSITION: Lat. = 35°30'06.958"; Long. = 82°23'31.531" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Cedar Cliff	137°37'51.9"	317°35'45.5"	3.909645	5.0
Black Knob	213 17 35.9	33 19 15.5	3.895502	4.9
Gerton	272 05 53.8	92 07 57.6	3.730564	3.3

GRID POSITION (N. C.): X = 990,598.8; Y = 654,835.8 (G-3)

**MONTREAT 13** (USGS, 1934; Buncombe County, North Carolina)  
Located about 6 miles east of Asheville, and 3 miles northwest of Swannanoa, on property owned by Charles Alexander. To reach from Swannanoa Post Office, drive north 0.3 miles to Highway 70, turn left on Highway 70 and drive toward Asheville, 0.6 miles, turn right up Riverside Drive for 1.5 miles to road forks, turn left on gravel road for 0.7 miles to road fork, turn right on dirt road for 0.5 miles to residence of C. E. Gash, take trail west for 1/4 mile to station. Station is drill hole in rock set in place 25 feet north of crest of peak.

GEODETIC POSITION: Lat. = 35°37'15.353"; Long. = 82°26'24.872" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Cedar Cliff	8°44'24.1"	188°43'58.5"	3.862636	4.5
Rice	130 44 21.3	310 42 37.1	3.773488	3.7
Lanes Pinnacle	194 13 41.0	14 14 20.2	3.837741	4.3

GRID POSITION (N. C.): X = 977,776.8; Y = 698,613.7 (G-3)

**MONTREAT 16** (USGS, 1934; Yancey-Buncombe Counties, North Carolina)  
Located about 6.5 miles south of Pensacola, on the first top to the southeast of Balsam Gap. To reach from Wilson's toll gate on Pensacola-Mt. Mitchell road, follow said road in a southerly direction for 9.6 miles to road fork, take right hand fork 4.2 miles to Balsam Gap, continue on foot south-west along fence line to first top. Station is one inch drill hole one foot west of base of tree. Tree has an "A" blazed on its base.

Reference Mark is drill hole 1 inch deep in solid rock, north 18.4 feet distance from mark under tree.

GEODETIC POSITION: Lat. = 35°44'46.616" Long. = 82°19'34.401" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Craggy	44°10'46.8"	224°08'58.9"	3.824087	4.1
Celo	210 43 58.9	30 46 42.0	4.136563	8.5
Mitchell	249 39 12.3	69 41 20.7	3.769883	3.7

GRID POSITION (N. C.): X = 1,013,171.8; Y = 743,057.8 (G-3)  
ELEVATION: 6030 feet (T-5)

**MS 627** (TVA, 1941; Buncombe County, North Carolina)  
Located 2.0 miles (airline) southwest of Azalea. To reach from intersection of U. S. Highways 70 and 74 in East Asheville at Municipal Golf Course, drive southeast on Highway 74 for 2.0 miles to curve in highway; on south shoulder of highway. A 1-by 1-inch angle iron stamped "MS 627".

Reference Mark 1: 31.90 feet N 75° W to tack in phone pole No. 78.  
Reference Mark 2: 55.83 feet N 38° E to tack in 8-inch pine on north side of highway.

GRID POSITION (N. C.): X = 964,737.0; Y = 674,718.7 (T-3)  
Grid Azimuth to MS 628 (distance 1865.4 feet): 298°47'30".  
ELEVATION: 2160 feet (T-5)

**MS 628** (TVA, 1941; Buncombe County, North Carolina)  
Located 2.0 miles (airline) south of Azalea. To reach from intersection of U. S. Highways 70 and 74 in East Asheville at Municipal Golf Course, drive southeast on U. S. Highway 74 for 2.35 miles; on south shoulder of road. A 1-by 1-inch angle iron stamped "MS 628".

Reference Mark 1: 31.02 feet S 60° E to tack in mailbox post.  
Reference Mark 2: 8.82 feet S 35° W to tack in fence post.

GRID POSITION (N. C.): X = 966,371.8; Y = 673,820.3 (T-3)  
Grid Azimuth to MS 627 (distance 1865.4 feet): 118°47'30".  
Grid Azimuth to MS 629 (distance 3505.4 feet): 290°11'50".  
ELEVATION: 2180 feet (T-5)

**MS 629** (TVA, 1941; Buncombe County, North Carolina)  
Located 2.2 miles (airline) south of Azalea. To reach from intersection of U. S. Highways 70 and 74 in East Asheville at Municipal Golf Course, drive southeast on U. S. Highway 74 for 3.00 miles. Station is on north side of highway, on top of 8-foot cut road bank. A 1-by 1-inch angle iron stamped "MS 629".

Reference Mark 1: 21.80 feet S 78° E to tack in phone pole No. 117.  
Reference Mark 2: 71.75 feet S 25° W to tack in curve sign on south side of highway.

GRID POSITION (N. C.): X = 969,661.7; Y = 672,610.1 (T-3)  
Grid Azimuth to MS 628 (distance 3505.4 feet): 110°11'50".  
Grid Azimuth to CEDAR CLIFF (distance 4452.3 feet): 235°46'00".  
ELEVATION: 2322 feet (T-5)

**MS 631** (TVA, 1941; Buncombe County, North Carolina)  
Located in East Asheville, on the right bank of Swannanoa River, on the east shoulder of road, at the north end of the Municipal Golf Course, 100 feet south of T-road west to Golf Club House. A 1-by 1-inch angle iron stamped "MS 631".

Reference Mark 1: 1.89 feet N 55° E to tack in guard post.  
Reference Mark 2: 3.77 feet S 37° W to tack in guard post.  
Reference Mark 3: 43.41 feet N 48° W to 6-inch dead evergreen tree.

GRID POSITION (N. C.): X = 960,325.7; Y = 683,979.1 (T-3)  
Grid Azimuth to MS 630 (distance 3181.2 feet): 62°04'20".  
ELEVATION: 2023.1 feet (T-4)

**MS 642** (TVA, 1941; Buncombe County, North Carolina)  
Located 4.4 miles (airline) west of Fairview School. To reach from county courthouse at Asheville, drive southeast along U. S. Highway 74 for 5.50 miles to Log Cabin service station and T-road right, turn right and continue on gravel road for 1.15 miles to Y-road, keep left and continue up mountain to second Y-road (1.10 miles) keep right and continue 0.30 miles to top and saddle, park car and walk northwest along center line of ridge for 200 feet. Station is on east slope of ridge 30 feet from center line set next to or just south of a rock outcrop. A 1-by 1-inch angle iron stamped "MS 642" and driven in ground at 45° angle.

Reference Mark 1: 19.54 feet South to tack and washer in 6-inch hickory.  
Reference Mark 2: 22.42 feet S 50° E to tack and washer in 10-inch oak.  
Reference Mark 3: 19.70 feet N 33° W to tack and washer in 24-inch birch.

GRID POSITION (N. C.): X = 961,766.8; Y = 664,965.6 (T-4)  
ELEVATION: 3076 feet (T-5)

**MS 643** (TVA, 1941; Buncombe County, North Carolina)  
Located 1.3 miles (airline) east of Azalea. To reach from Buncombe County Courthouse in Asheville, drive east along U. S. Highway 70 for 6.80 miles to Y-road south crossing railroad, turn right and drive 0.80 miles, keeping main road to locked gate, park car at gate and walk west up steep wooded slope for 1500 feet to first top on a spur ridge of Buckeye Mountain. Station is 20 feet west of wire fence in edge of woods near thick briar patch. A 1-by 1-inch angle iron stamped "MS 643".

Reference Mark 1: 4.25 feet N 61° E to tack and washer in 6-inch hickory.  
Reference Mark 2: 6.22 feet S 86° W to tack and washer in 6-inch hickory.  
Reference Mark 3: 11.45 feet S 47° E to, tack and washer in 4-inch oak.

GRID POSITION (N. C.): X = 974,420.8; Y = 682,556.5 (T-4)  
ELEVATION: 3262 feet (T-5)

**MS 647** (TVA, 1941; McDowell County, North Carolina)  
Located 4.4 miles (airline) southeast of Black Mountain. To reach from Black Mountain, drive southeast 6.50 miles on temporary Highway 9 to Crooked Creek road, turn left on Crooked Creek road and drive 0.90 miles to right angle bend in low gap, park car and walk north along center line of ridge 625 feet over small top thru small saddle to second top and station. Station is on top of knoll. A 1-by 1-inch angle iron stamped "MS 647".

Reference Mark 1: 8.40 feet N 30° W to tack in 18-inch dead chestnut.  
Reference Mark 2: 3.80 feet S 20° W to tack in 10-inch pine.  
Reference Mark 3: 9.10 feet N 75° E to tack in 3-inch oak.

GRID POSITION (N. C.): X = 1,029,936.7; Y = 679,170.4 (T-4)  
ELEVATION: 2790 feet (T-5)

**MS 663** (TVA, 1941; Buncombe County, North Carolina)  
Located 3.3 miles (airline) west of Stepps Gap. To reach from Burns-ville, drive east from courthouse on Highway 19E for 1.0 miles to highway intersection, turn right on Highway 197 and drive south 10.50 miles to T-road intersection, keep left, leave Highway 197 and follow Mt. Mitchell Toll Road known as Wilson Road, continue on said road 11.30 miles to road intersection, turn right on Balsam Gap Road and drive 3.50 miles to Balsam Gap; park car and walk on trail southwest along center line of ridge toward Craggy Gardens, 1500 feet to top of Walker Knob. Station is 50 feet southeast of trail, 30 feet northwest of top of knoll. A 1-by 1-inch angle iron stamped "MS 663".

Reference Mark 1: 16.09 feet S 75° E to tack in 6-inch buckeye.  
Reference Mark 2: 4.04 feet N 35° E to tack in 14-inch buckeye.  
Reference Mark 3: 6.63 feet S 06° W to tack in 12-inch buckeye.

GRID POSITION (N. C.): X = 1,009,999.8; Y = 743,485.8 (T-4)  
ELEVATION: 5482 feet (T-5)

**N 5** (USGS, 1929; Buncombe County, North Carolina)  
Located 3.6 miles east of Biltmore station, 0.9 miles west of Azalea, and 60 feet south of the center line of the railroad track, 40 feet west of small stream, 75 feet west of trail and in rock ledge. A standard tablet stamped "N 5 1929".

Reference Mark is 140 feet N 45° E from tablet, on ledge; a square cut 6.03 feet lower than the tablet.  
ELEVATION: 2053.84 feet (G-3)

**N 6** (USGS, 1929; Buncombe County, North Carolina)  
Located 1.9 miles east of Azalea and 2.6 miles west of Swannanoa, 10 feet east of switch box post, 12 feet north of railroad track, and in ledge. A standard tablet stamped "N 6 1929".

Reference Mark is 20 feet west of tablet, in ledge; a square cut 1.25 feet lower than the tablet.  
ELEVATION: 2172.93 feet (G-3)



**N 7 (USGS, 1929; Buncombe County, North Carolina)**

Located 1.6 miles west of the station at Black Mountain, by rail, on the Salisbury to Knoxville Division of the Southern Railway, 5 rails east of milepost No. 127, 6.7 feet south of the south rail, on the northeast corner of the concrete foundation of semaphore signal tower No. S 127.0, and 3 inches below the base of the rails. A standard tablet stamped "N 7 1929".

Reference Mark is 15 feet north of tablet, in concrete base of north signal light post; square cut 0.92 feet lower than tablet.

ELEVATION: 2287.699 feet or 697.292 meters (C-1)

**N 8 (USGS, 1929; Buncombe County, North Carolina)**

Located at Black Mountain, along U. S. Highway 70, in the southwest angle formed by the crossing of U. S. Highway 70 and State Highway 119, in the northeast face of the Black Mountain Drug Company building, 5.7 feet above the level of the sidewalk, 1 foot southeast of the main entrance to the drug store, 50 feet southeast of intersection of State Street and Broadway. A standard tablet stamped "N 8 1929" and set vertically.

ELEVATION: 2400.038 feet or 731.533 meters (C-1)

**N 9 (USGS, 1929; Buncombe County, North Carolina)**

Located 0.8 miles north of highway, and 300 feet north of toll gate, 20 feet north of road, at north end of loop, 6 feet west of trail west, and in ledge. A standard tablet stamped "N 9 1929", painted "U.S.P.B.M. 2646".

Reference Mark is 150 feet south of tablet, west edge of road, on boulder; chiseled square 5.93 feet lower than the tablet.

ELEVATION: 2645.83 feet (G-3)

**N 10 (USGS, 1929; Buncombe County, North Carolina)**

Located 1 mile (airline) north of toll gate, on Mount Mitchell Road, 15 feet northwest of forks of road at Rainbow Gap and in ledge. A standard tablet erroneously stamped "N 11 1929", painted "U.S.P.B.M. 3249".

Reference Mark is 8 feet S 45° W from tablet, on ledge; square cut 2.27 feet lower than the tablet.

ELEVATION: 3249.82 feet (G-3)

**N 11 (USGS, 1929; McDowell County, North Carolina)**

Located 1.8 miles (airline) northeast of toll gate and 275 feet north of road forks at Sourwood Gap, on Mount Mitchell Road, on the west edge of road, and in rock ledge. A standard tablet stamped "N 11 1929", painted "U.S. P.B.M. 3662".

Reference mark is 20 feet due south from tablet, on east edge of road, on boulder; square cut 4.45 feet lower than the tablet.

ELEVATION: 3662.50 feet (G-3)

**N 12 (USGS, 1929; McDowell County, North Carolina)**

Located 10 feet northwest of junction of roads, at Blue Ridge siding, on Mount Mitchell road, in the top of a rock ledge. A standard tablet stamped "N 12 1929", painted "U.S.P.B.M. 4524".

Reference Mark is 25 feet south of tablet, on boulder; chiseled square 2.46 feet lower than the tablet.

ELEVATION: 4525.19 feet (G-3)

**N 13 (USGS, 1929; Yancey County, North Carolina)**

Located 5.16 miles south of Camp Alice and 800 feet north of gate at entrance to Game Preserve, 20 feet southwest of road fork on top of divide and in ledge. A standard tablet stamped "N 13 1929".

Reference Mark is 40 feet east of tablet, on boulder; chiseled square 0.44 feet higher than the tablet.

ELEVATION: 5190.19 feet (G-3)

**N 14 (USGS, 1929; Yancey County, North Carolina)**

Located 3.1 miles south of Camp Alice and 30 feet west of center of Clingmans Bridge, on the north side of road and in rock outcrop. A standard tablet stamped "N 14 1929".

Reference Mark is 25 feet S 45° W from tablet, on ledge; chiseled square 1.52 feet lower than tablet.

ELEVATION: 5429.00 feet (G-3)

**N 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located at Bull Gap, about 0.1 miles north along the Ox Creek road from the intersection of the Blue Ridge Parkway, 94 yards east of the center line of the road, 20 yards north of a log stable by a wild plum tree, and in a granite boulder. A standard tablet stamped "N 129 1935".

ELEVATION: 3177.261 feet or 968.431 meters (T-2)

**N 135 (USC&GS, 1935; Yancey County, North Carolina)**

Located about 3.2 miles southeast along the Wilson Toll Road from the junction of the Blue Ridge Parkway at Balsam Gap, 6 yards south of a large stump near the road, and 4 yards east of the center line of the road. A standard tablet stamped "N 135 1935" and set in the top of a concrete post.

ELEVATION: 5561.846 feet or 1695.254 meters (T-2)

**P 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 0.9 miles north along the Ox Creek road from the intersection of the Blue Ridge Parkway at Bull Gap, 43 yards west of a two-story white frame house, 21 yards northwest of a stone springhouse, 5 yards south of the center line of the road, and in a large granite boulder. A standard tablet stamped "P 129 1935".

ELEVATION: 2825.316 feet or 861.158 meters (T-2)

**P 135 (USC&GS, 1935; Yancey County, North Carolina)**

Located about 2.1 miles east along the Wilson Toll Road from the junction of the Blue Ridge Parkway at Balsam Gap, about 1000 feet north of a lumber camp frame building, 17 yards north of a small clearing, 4 yards east of the road, and between two retaining logs. A standard tablet stamped "P 135 1935" and set in the top of a concrete post.

ELEVATION: 5439.179 feet or 1657.865 meters (T-2)

**P 143 (USC&GS, 1935; McDowell County, North Carolina)**

Located 6.8 miles northwest of the station at Old Fort, by rail, on the Salisbury to Knoxville Division of the Southern Railway, about 110 yards south of milepost No. 118, 25 yards north of the switch target at the siding "Graphite", 18.1 feet east of the east rail of the main track, 3-1/2 yards north of

of the northwest corner of section tool house. A standard tablet stamped "P 143 1935" and set in the top of a concrete post 3 inches above ground.

ELEVATION: 2033.277 feet or 619.744 meters (C-1)

**Q 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 2.2 miles northwest along the Ox Creek road from the intersection of the Blue Ridge Parkway at Bull Gap, 39 yards north of a timber bridge over Jimmy Branch, 9 yards south of a side road leading east, 5 yards east of the center line of the main road, and inside a rail fence. A standard tablet stamped "Q 129 1935" and set in the top of a concrete post.

ELEVATION: 2318.437 feet or 706.661 meters (T-2)

**Q 143 (USC&GS, 1935; McDowell County, North Carolina)**

Located about 3.7 miles northeast along the Southern Railway from the station at Ridgecrest, at Coleman, about 240 feet west of the station sign, 8.1 feet west of semaphore 119.3, at a culvert in the top of the east end of the south concrete headwall, 7.4 feet south of the south rail of the main track, and about 1 foot lower than the rail. A standard tablet stamped "Q 143 1935".

ELEVATION: 2152.017 feet or 655.936 meters (C-1)

**R 69 (TVA, 1941; Buncombe County, North Carolina)**

Located along the Bull Gap road from the high school at Swannanoa, 0.9 miles west along a county road from the Asheville Farm School, 0.4 miles southeast of Berea Church, at the intersection of the Asheville water supply pipe line, at the Y-junction of a road leading southwest, 60 feet north of the junction, 30 feet south of the pipe line, 15 feet west of the center line of Bull Gap road. A spike in the root of a 12-inch red oak tree.

ELEVATION: 2163.815 feet or 659.532 meters (T-2)

**R 135 (USC&GS, 1935; Buncombe County, North Carolina)**

Located at Balsam Gap, on the Blue Ridge Parkway, at the junction of the Wilson Toll Road, 20 yards south of the east and west road, at a fence line, and 2 yards west of a hickory tree marked Balsam Gap. A standard tablet stamped "R 135 1935" and set in the top of a concrete post.

ELEVATION: 5320.311 feet or 1621.634 meters (T-2)

**R 143 (USC&GS, 1935; McDowell County, North Carolina)**

Located about 2.7 miles northeast along the Southern Railway from the station at Ridgecrest, about 0.2 miles south of milepost No. 120, about 70 yards northwest of a large rock cut, at a bridge over a dirt road, in the northeast end of the northwest abutment, 8.3 feet northeast of the northeast rail, 1.4 feet northeast of the northeast ballast curb, and about 1-1/2 feet lower than the rail. A standard tablet stamped "R 143 1935".

ELEVATION: 2254.205 feet or 687.083 meters (C-1)

**RICE (USGS, 1934; Buncombe County, North Carolina)**

Located about 5 miles northeast of Asheville and 5 miles southeast of Weaverville, on wooded top known as Rice Knob. To reach from Asheville Post Office, take Highway 19 toward Weaverville for 3.1 miles to end of car line, turn right onto Highway 694 and proceed 0.6 miles, turn left onto gravel road (Scenic Highway), proceed 5.3 miles to point where road passes prominent rock outcrop, continue beyond this point 0.3 miles, leave car and take trail south up ridge for 1/2 mile to station. A standard tablet stamped "RICE 1934" and set in rock outcrop.

Reference Mark 1: 9.5 feet S 15° W to drill hole in rock outcrop.

Reference Mark 2: 15.0 feet N 64° W to drill hole in rock outcrop.

Reference Mark 3: 13.7 feet N 34° E to drill hole in rock outcrop.

GEODETIC POSITION: Lat. = 35°39'21.013"; Long. = 82°29'23.671" (G-3)

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Spivey	67°29'14.4"	247°23'34.8"	4.201033	9.9
Britten	168 18 09.0	348 17 34.1	3.870410	4.6
Craggy	242 39 28.0	62 43 23.8	4.058603	7.1

GRID POSITION (N. C.): X = 963,471.7; Y = 711,825.5 (G-3)  
ELEVATION: 4002 feet (T-5)

**RV 640 (Southern Railway, ? ; McDowell County, North Carolina)**

Located about 6.8 miles northwest along the Southern Railway from the station at Old Fort, at Graphite, about 110 yards south of milepost No. 118, about 30 yards northwest of the switch of the spur, about 10 yards south of a section foreman's house, about 12 yards west of the west rail, at the southeast corner of a well, and in the top of the concrete cover. A standard monel-metal rivet.

ELEVATION: 2029.110 feet or 618.474 meters (C-1)

**RV 641 (Southern Railway, ? ; McDowell County, North Carolina)**

Located about 3.7 miles northeast along the Southern Railway from the station at Ridgecrest, at Coleman, opposite the telegraph office, 15.5 feet south of the south rail of the main track, 3.6 feet south of the south rail of the west-bound passing track, at a switch control, and in the top of the northwest corner of the concrete base. A standard monel-metal rivet.

ELEVATION: 2155.366 feet or 656.957 meters (C-1)

**RV 642 (Southern Railway, ? ; McDowell County, North Carolina)**

Located about 1.8 miles northeast along the Southern Railway from the station at Ridgecrest, between Burgin and High Ridge Tunnels, about 100 yards west of the west entrance to High Ridge Tunnel, at a culvert, in the top of the east end of the north concrete headwall, 11.5 feet north of the north rail, and about 1-1/2 feet lower than the rail. A standard monel-metal rivet.

ELEVATION: 2353.788 feet or 717.436 meters (C-1)

**RV 643 (Southern Railway, ? ; Buncombe County, North Carolina)**

Located 0.3 miles east of the station at Ridgecrest by rail, on the Salisbury to Knoxville Division of the Southern Railway, 7.8 feet south of the south rail, 1.7 feet west of the west portal of Swannanoa Tunnel (tunnel No. S 122.5), 1.1 feet above the level of rails, and set in outcropping rock ledge. A monel metal rivet.

ELEVATION: 2521.757 feet or 768.633 meters (C-1)

**RV 644 (Southern Railway, ? ; Buncombe County, North Carolina)**

Located 0.5 miles west of the station at Ridgecrest, by rail, on the Salisbury to Knoxville Division of the Southern Railway, 120 yards east of semaphore signal tower No. S 123.7, 19 yards west of "Water Half Mile" sign,

11.7 feet south of the south rail, on the east end of the south concrete head-wall of railway pipe culvert, and 15 inches below the level of the rails. A monel metal rivet.

ELEVATION: 2480.750 feet or 756.134 meters (C-1)

**RV 645 (Southern Railway, ? ; Buncombe County, North Carolina)**

Located at Black Mountain, on the Salisbury to Knoxville Division of the Southern Railway, 360 feet west of the station, 12.7 feet north of the north rail of the main track, at the northwest corner of the dirt platform along the north side of the tracks, on the west end of the north concrete curb of the platform, and 3 inches below the level of the rails. A monel metal rivet.

ELEVATION: 2370.287 feet or 722.465 meters (C-1)

**RV 646 (Southern Railway, ? ; Buncombe County, North Carolina)**

Located 1.4 miles east of the station at Swannanoa by rail, on the Salisbury to Knoxville Division of the Southern Railway, 0.5 miles east of milepost No. 129, about 80 yards northwest of the home of Sandy Watkins in large grove of white pines, on the east end of the south concrete headwall of railway pipe culvert, 15.6 feet south of the south rail and 2 feet below the rails. A monel metal rivet.

ELEVATION: 2236.459 feet or 681.674 meters (C-1)

**RV 648 (Southern Railway, ? ; Buncombe County, North Carolina)**

Located 1.7 miles east of station at Azalea, on the Salisbury to Knoxville Division of the Southern Railway, 0.3 miles east of milepost No. 133, in the southeast angle formed by the crossing of railway and private dirt road, on the east concrete headwall of dirt road culvert, 3.0 feet south of the north end of the headwall, 6.5 feet south of the south rail, and level with the rails. A monel metal rivet.

Report on Condition (TVA, Jan., 1942): Rivet has been removed. Hole was found where rivet had been set.

ELEVATION: 2146.813 feet or 654.350 meters (C-1)

**RV 649 (Southern Railway, ? ; Buncombe County, North Carolina)**

Located 0.5 miles west of the station at Azalea, by rail, on the Salisbury to Knoxville Division of the Southern Railway, 18 rails east of milepost No. 135, in the southeast angle formed by the crossing of the railway and dirt road, in the east headwall of private dirt road culvert, 5.5 feet south of the south rail, 2.3 feet south of the north end of the headwall, level with the base of the rails. A monel metal rivet.

ELEVATION: 2053.510 feet or 625.911 meters (C-1)

**S 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 5.1 miles along the Reems Creek road from the city hall at Weaverville, about 53 yards northeast of a side road leading north, 5 yards north of the center line of the Reems Creek road, at a small concrete culvert, and in the top of the east end of the north headwall. A standard tablet stamped "S 129 1935".

ELEVATION: 2281.229 feet or 695.320 meters (T-2)

**S 143 (USC&GS, 1935; McDowell County, North Carolina)**

Located about 1.9 miles northeast along the Southern Railway from the station at Ridgecrest, about 24 yards west of the west entrance to High Ridge Tunnel, and 22 feet south of the south rail. A standard tablet stamped "S 143 1935" and set in the top of a concrete post projecting 6 inches above ground.

ELEVATION: 2350.707 feet or 716.497 meters (C-1)

**T 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 6.1 miles east along the Reems Creek road from the city hall at Weaverville, at Beech, about 68 yards north of the Presbyterian Church, 16 yards south of the center line of a road, 10 yards west of a water wheel, 4 yards east of the center line of another road, at a wooden bridge over Reems Creek, and in the east end of the north abutment. A standard tablet stamped "T 129 1935".

ELEVATION: 2412.505 feet or 735.333 meters (T-2)

**T 143 (USC&GS, 1935; McDowell County, North Carolina)**

Located about 0.7 miles east along the Southern Railway from the station at Ridgecrest, about 43 yards east of the east entrance to Swannanoa Tunnel, 7.5 feet south of the south rail, and about 2 feet higher than the rail, in the face of the rock approach cut to the tunnel. A standard tablet stamped "T 143 1935" and set vertically.

ELEVATION: 2479.647 feet or 755.798 meters (C-1)

**U 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 1.0 miles north along the Paint Fork road from Beech, 34 yards north of a log bridge over a ravine, 36 yards south of a 14-inch apple tree, and 7 yards east of the center line of the road. A standard tablet stamped "U 129 1935" and set in the top of a concrete post.

ELEVATION: 2672.052 feet or 814.443 meters (T-2)

**U 143 (USC&GS, 1935; Buncombe County, North Carolina)**

Located at Ridgecrest, on the Salisbury to Knoxville Division of the Southern Railway, 26 yards south of the south rail, 26 yards southwest of the southwest corner of the station, 11 yards east of the center line of the gravel road. A standard tablet stamped "U 143 1935" and set in the top of a concrete post projecting 3 inches above ground.

ELEVATION: 2529.496 feet or 770.992 meters (C-1)

**V 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 1.8 miles north along the Paint Fork road from Beech, about 78 yards north of the top of Paint Fork Gap, 29 yards north of the junction of the old and new roads, and 10 yards east of the center line of the road. A standard tablet stamped "V 129 1935" and set in the top of a concrete post.

ELEVATION: 3070.063 feet or 935.757 meters (T-2)

**V 135 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 6.8 miles north along the North Fork Reservoir road from the junction of State Highway 9 north of Black Mountain, on the east side of North Fork Reservoir, and in the first step of the dam. A standard tablet stamped "V 135 1935".

ELEVATION: 2824.053 feet or 860.773 meters (T-2)

**V 141 (USC&GS, 1935; Buncombe County, North Carolina)**

Located at Azalea, on the Salisbury to Knoxville Division of the Southern

Railway, 340 feet northeast of the station, 11 yards northeast of first switch northeast of the station, 16.1 feet northwest of the northwest rail of the main track, 1 yard southwest of telegraph pole, 15 inches below the top of the rails. A standard tablet stamped "V 141 1935" and set in the top of a concrete post projecting 6 inches above ground.

ELEVATION: 2052.315 feet or 625.547 meters (C-1)

**V 143 (USC&GS, 1935; Buncombe County, North Carolina)**

Located 1.2 miles east of the Station at Black Mountain, by rail, on the Salisbury to Knoxville Division of the Southern Railway, 180 yards west of milepost No. 124, 200 yards west of "Station 1 Mile" sign (Ridgecrest station), 23 yards east of semaphore signal tower No. S 124.1, 30.0 feet north of the north rail, in the northwest angle of private road crossing. A standard tablet stamped "V 143 1935" and set in the top of a concrete post projecting 6 inches above ground.

ELEVATION: 2433.834 feet or 741.834 meters (C-1)

**W 129 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 2.9 miles north along the Paint Fork road from Beech, at Paint Fork, about 2.3 miles south of the post office at Barnardsville, about 57 yards south of the Paint Fork Creek ford, 12 yards west of the center line of the road, and 5 yards east of the church. A standard tablet stamped "W 129 1935" and set in the top of a concrete post.

ELEVATION: 2454.578 feet or 748.157 meters (T-2)

**W 135 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 5.8 miles north along the North Fork Reservoir road from the junction of State Highway 9 north of Black Mountain, and in a small brick building used for storing fire-fighting equipment. A standard tablet stamped "W 135 1935" and set vertically.

ELEVATION: 2723.144 feet or 830.016 meters (T-2)

**W 139 (USC&GS, 1935; Buncombe County, North Carolina)**

Located 0.8 miles east of the Station at Swannanoa, by rail, on the Salisbury to Knoxville Division of the Southern Railway, in the northeast angle formed by the crossing of the railway and dirt road leading to the home of Rev. W. W. Shades, at the southwest corner of the lawn of Rev. Shade's home, 14.5 feet north of the north rail, 7.0 feet east of the center line of the dirt road, 5.3 feet northwest of milepost No. 129. A standard tablet stamped "W 139 1935" and set in the top of a concrete post projecting 5 inches above ground.

ELEVATION: 2262.371 feet or 689.572 meters (C-1)

**W 141 (USC&GS, 1935; Buncombe County, North Carolina)**

Located 1 mile northeast of the station at Azalea, by rail, on the Salisbury to Knoxville Division of the Southern Railway, in the northwest angle formed by the crossing of the railway and dirt road, 16 yards southwest of the junction of the dirt road with U. S. Highway 70, 10 yards west of the center line of the dirt road, 23.9 feet north of the north rail, 20.5 feet northeast of "Station 1 Mile" sign. A standard tablet stamped "W 141 1935" and set in the top of the concrete post, projecting 6 inches above ground.

Note: Searched for but not recovered, Jan. 1942. Mark evidently covered by road fill.

ELEVATION: 2103.546 feet or 641.162 meters (C-1)

**W 143 (USC&GS, 1935; Buncombe County, North Carolina)**

Located at Black Mountain, on the Salisbury to Knoxville Division of the Southern Railway, in the southeast angle formed by the crossing of the railway and Highway 119 (temporary), 25 yards southwest of the southwest corner of the station, 22.5 feet south of the south rail of the main track, 4.5 feet east of the east edge of concrete sidewalk. A standard tablet stamped "W 143 1935" and set in the top of a concrete post projecting about 3 inches above ground.

ELEVATION: 2366.531 feet or 721.320 meters (C-1)

**X 135 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 4.8 miles north along the North Fork Reservoir road from the junction of State Highway 9 north of Black Mountain, 6 yards west of the center line of the road, 2 yards south of pole 160, and at a point where the line of poles leaves the road. A standard tablet stamped "X 135 1935" and set in the top of a concrete post.

ELEVATION: 2615.812 feet or 797.301 meters (T-2)

**X 139 (USC&GS, 1935; Buncombe County, North Carolina)**

Located at Swannanoa, on the Salisbury to Knoxville Division of the Southern Railway, 12 yards south of the south rail, 12 yards west of the west end of the station, in the park plot at the west end of the station, 6.0 feet south of the hedge along the north edge of the park plot. A standard tablet stamped "X 139 1935" and set in the top of a concrete post projecting 5 inches above ground.

ELEVATION: 2220.022 feet or 676.664 meters (C-1)

**X 143 (USC&GS, 1935; Buncombe County, North Carolina)**

Located 1 mile west of the station at Black Mountain, by rail, on the Salisbury to Knoxville Division of the Southern Railway, 25 yards northwest of the "Station 1 Mile" sign, 18 yards west of the small private dirt road, in the northwest angle of the crossing of the railway and the road, 39.7 feet north of the north rail, 3 yards east of power pole, 2 feet below the rails. A standard tablet stamped "X 143 1935" and set in the top of a concrete post projecting 5 inches above ground.

ELEVATION: 2308.942 feet or 703.767 meters (C-1)

**Y 135 (USC&GS, 1935; Buncombe County, North Carolina)**

Located about 3.5 miles north along the North Fork Reservoir road from the junction of State Highway 9 north of Black Mountain, about 44 yards north of a timber bridge over North Fork, at the junction of a road leading southwest, 7 yards east of the center line of the main road, and 2 yards south of a stone gateway. A standard tablet stamped "Y 135 1935" and set in the top of a concrete post.

ELEVATION: 2494.270 feet or 760.255 meters (T-2)

**Y 139 (USC&GS, 1935; Buncombe County, North Carolina)**

Located 1.2 miles west of the station at Swannanoa, by rail, on the Salisbury to Knoxville Division of the Southern Railway, at the east end of large railway cut, 470 feet west of milepost No. 131, 15 yards north of the north rail, 14 yards south of lone cherry tree, 65 feet east of foot path leading across railway, 5 feet above the rails and 6 inches above the ground. A

standard tablet stamped "Y 139 1935" and set in the top of a concrete post.  
 ELEVATION: 2265.215 feet or 690.439 meters (C-1)

Y 143 (USC&GS, 1935; Buncombe County, North Carolina)

Located 1.7 miles west of the station at Black Mountain, by rail, on the Salisbury to Knoxville Division of the Southern Railway, 5-1/2 rails west of milepost No. 127, 110 yards west of two semaphore signal towers, in line with power line poles, 40.5 feet north of the north rail. A standard tablet stamped "Y 143 1935" and set in the top of a concrete post, projecting 5 inches above ground.

ELEVATION: 2286.915 feet or 697.053 meters (C-1)

Z 135 RESET (USC&GS, 1935, RESET, TVA, 1941; Buncombe County, North Carolina)

Located about 2.6 miles north-northwest along the North Fork Reservoir road from the junction of State Highway 9 north of Black Mountain, on the Bart Burnette property, about 80 paces west of a one-story frame house on the east side of the road, 54 paces north of the junction of a T-road leading west, 60 paces north of a bridge over Walker Branch, 75 feet west of the main road, in an apple orchard, 40 feet south of an 8-inch apple tree, 37.5 feet east of a 10-inch apple tree, 18.5 feet north of a 10-inch apple tree, and in a boulder. A standard tablet stamped "Z 135 1935 RESET 1941".

ELEVATION: 2544.125 feet or 775.451 meters (T-2)

Z 139 (USC&GS, 1935; Buncombe County, North Carolina)

Located 2.2 miles west of the station at Swannanoa, by rail, on the Salisbury to Knoxville Division of the Southern Railway, in the southeast angle formed by the crossing of the railway and private dirt road, 11 rails west of milepost No. 132, about 60 yards southeast of junction of Asheville Farm School road with U. S. Highway 70, 13 yards east of center line of private dirt road leading to home, 29.9 feet south of south rail, 2-1/2 feet below rails. A standard tablet stamped "Z 139 1935" and set in the top of a concrete post projecting 6 inches above the ground.

ELEVATION: 2199.815 feet or 670.505 meters (C-1)