

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

SURVEY CONTROL DATA

ARDEN, NORTH CAROLINA
QUADRANGLE 193

BULLETIN TVA-MS-193-C

CHATTANOOGA, TENNESSEE
APRIL 1951

SURVEY CONTROL DATA IN QUADRANGLE 193

AKW 171 (TVA, 1940; Buncombe County, North Carolina)

Located 6 miles southeast of Canton, on top edge of old road bank, 200 feet west and in back of Don's Place. To reach from Candler railroad station, drive south on Pisgah Mountain motor road for 4.5 miles to T. L. Miller's store, turn right about 200 feet to white house on left, walk west along top of old road bank and edge of cultivated field 200 feet to station. A 1-inch angle iron stamped "AKW 171 1940".

Reference Mark 1: 10.90 feet S 67° E to 9-inch bellwood.

Reference Mark 2: 22.87 feet S 08° E to 3-inch locust.

Reference Mark 3: 21.85 feet S 02° W to 4-inch locust.

GRID POSITION (N. C.): X = 887,117.8; Y = 654,404.7 (T-4)

ELEVATION: 2320 feet (T-5)

AKW 172 (TVA, 1940; Buncombe-Henderson Counties, North Carolina)

Located 11 miles southeast of Canton, 1000 feet south of Cutthroat Gap, 150 feet east of and 10 feet below high point on knob, nearly on center line of ridge and about 30 feet north of edge of woods in field grown up to small locusts. To reach from Candler railroad station, drive south on Pisgah motor road 11.3 miles to Cutthroat Gap, continue along road 0.5 miles to where road passes below another unnamed gap, walk north 200 feet to center line of ridge in gap, then turn right 800 feet east along center line of ridge to station. A 1-inch angle iron stamped "AKW 172 1940".

Reference Mark 1: 50.5 feet N 87° E to 8-inch locust.

Reference Mark 2: 33.55 feet S 46° E to 4-inch post oak.

Reference Mark 3: 40.25 feet S 01° W to 5-inch post oak.

GRID POSITION (N. C.): X = 888,326.1; Y = 632,748.1 (T-4)

ELEVATION: 4548 feet (T-5)

AKW 179 (TVA, 1941; Henderson County, North Carolina)

Located on south side of road 0.6 miles south of Bent Creek Gap, 14 miles north of Brevard, 8 miles southwest of Skyland. To reach from Brevard at traffic light in center of town, drive east on U. S. Highway 64, 1 mile to State Highway 280, turn left on State Highway 280 for 13.8 miles to Yellow Gap road, 1/2 mile north of Mills River bridge, turn left on Yellow Gap road 5 miles to Wash Creek road, turn right on Wash Creek road 5.6 miles to station, which is on outside edge of road at curve and on center line of ridge, 1.5 feet west of Forest Service sign "Kramers Vista", 1.0 miles south of Bent Creek Gap. A 1- by 1-inch angle iron stamped "AKW 179 1941".

Reference Mark 1: 53.0 feet S 72° W to 16-inch pine on south edge of road.

Reference Mark 2: 53.0 feet N 44° W to 12-inch persimmon snag on top of road bank.

Reference Mark 3: 45.1 feet N 62° E to telephone pole.

GRID POSITION (N. C.): X = 911,077.8; Y = 636,620.4 (T-4)

ELEVATION: 3098 feet (T-5)

AKW 180 (TVA, 1941; Henderson County, North Carolina)

Located 6 miles southwest of Skyland, 12 miles northwest of Hendersonville, about 100 feet northwest of highest point on West Knob and 20 feet southeast of center line of ridge, at base of 18-inch oak. To reach from Hendersonville, drive northwest on State Highway 191 for 9 miles to Fanning Chapel, turn left on gravel road 1.0 miles to intersection, turn right 0.9 miles to residence of E. C. Palmer on left, beyond ford, turn left through Palmer's yard on woods road 0.4 miles to fork, bear right through white pine grove 0.8 miles to McKintosh's cabin (log), and end of truck travel. Continue on trail 1/2 mile to old field, follow center line of hollow north to ridge (1000 feet), then turn left 500 feet to station. A 1- by 1-inch angle iron stamped "AKW 180 1941".

Reference Mark 1: 2.8 feet S 30° W to 18-inch oak.

Reference Mark 2: 21.95 feet N 10° W to 20-inch dead chestnut.

Reference Mark 3: 18.50 feet East to 20-inch dead chestnut.

GRID POSITION (N. C.): X = 922,464.1; Y = 634,678.4 (T-4)

ELEVATION: 3296 feet (T-5)

ARDEN 1 (USGS, 1934; Buncombe County, North Carolina)

Located 4 miles southwest of Candler, 0.5 miles north of Dunsmore, 0.5 miles west of W. T. Israel's house on Mt. Pisgah Highway, on north edge of timber line of partly cleared top, 8.6 feet southwest of three-way fence corner, 5.0 feet south of fence line west, 7.7 feet west of fence line south. A drill hole in center of triangle in top of rock set in place.

Reference Mark 1: 15.45 feet N 50° W to 20-inch white oak.

Reference Mark 2: 7.63 feet N 62° E to 20-inch white oak at fence corner.

Reference Mark 3: 12.25 feet S 10° W to 12-inch pine.

GEODETIC POSITION: Lat. = 35°29'58.304"; Long. = 82°44'15.300" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pisgah	12°06'49.7"	192°06'09.2"	3.923281	5.2
Smathers	121 21 04.8	301 19 39.7	3.634890	2.7
Young Pisgah	311 39 24.3	131 40 47.4	3.684118	3.0

GRID POSITION (N. C.): X = 887,802.6; Y = 657,653.4 (G-3)

ELEVATION: 2746 feet (T-5)

ARDEN 4 (USGS, 1934; Buncombe County, North Carolina)

Located about 6-1/2 miles south of Asheville, and 13 miles north of Hendersonville, on Ducker Mountain. To reach from Asheville, go south on Highway 25 for 6.4 miles to Skyland, from Skyland Post Office turn right on Long Shoals Road and drive 0.8 miles to a side road near Valley Springs High School, turn right onto gravel road, take dirt road straight ahead at point where gravel road turns to right and continue to a side road left (total distance 0.7 miles), turn left and drive 0.4 miles to two-room log cabin, take trail 1/4 mile to top of mountain and station. A drill hole in rock set in place directly under 24-inch oak tree.

GEODETIC POSITION: Lat. = 35°29'39.541"; Long. = 82°33'12.910" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Double Knob	44°53'57.5"	224°51'31.4"	3.954094	5.6
Pisgah	67 38 24.0	247 31 19.5	4.300376	12.4
Skyland	284 04 45.2	104 06 17.5	3.616059	2.6

GRID POSITION (N. C.): X = 942,463.0; Y = 653,747.0 (G-3)

ELEVATION: 2631 feet (T-5)

ARDEN 5 (USGS, 1934; Henderson County, North Carolina)

Located 7.5 miles northwest of Hendersonville, 0.5 miles southeast of Mills River store, 200 yards south of State Highway 191, 1000 feet southeast of Annabell Jones' home, on a flat timbered hill at the southeast corner of

Britten Cemetery, 33.8 feet due east of footstone of grave on south side. To reach from Mills River store, drive southeast on State Highway 191, 0.5 miles. Station is on highest point of flat timbered hill on right of highway. A 1-inch square iron pin with round head driven in ground, 2 inches extended, directly under 14-inch red oak tree.

Reference mark is blazed triangle with nail in center on south side of the tree.

GEODETIC POSITION: Lat. = 35°23'04.936"; Long. = 82°33'49.022" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Fodderstack	32°53'58.6"	212°51'14.3"	4.120991	8.2
Double Knob	136 46 26.2	316 44 21.3	3.899966	4.9
Stoney	296 21 55.8	116 24 35.5	3.890775	4.8

ARDEN 6 (USGS, 1934; Henderson County, North Carolina)

Located 9.0 miles (airline) northwest of Hendersonville, 2 miles north of Mills River store, 300 feet east of State Highway 191, 175 feet southeast of Fanning Chapel, and 40 feet southeast of graveyard at timber corner. To reach from Mills River store, take State Highway 191, 2.1 miles. A drill hole in center of chiseled triangle in top of 4- by 10- by 14-inch granite rock set in place directly under 16-inch white oak.

Reference Mark is blazed triangle with nail in center on west side of tree.

GEODETIC POSITION: Lat. = 35°25'11.719"; Long. = 82°34'23.094" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Forge	35°49'16.3"	215°47'33.8"	3.882864	4.7
Yellow	79 46 58.8	259 43 00.7	4.022882	6.5
Double Knob	112 18 47.6	292 17 02.2	3.694699	3.1

GRID POSITION (N. C.): X = 935,689.4; Y = 626,896.6 (G-3)

ELEVATION: 2177 feet (T-5)

ARDEN 7 (USGS, 1934; Henderson County, North Carolina)

Located 14 miles (airline) northeast of Brevard, 1.8 miles south of Ferrin Knob Lookout Tower, 1.0 miles northeast of the natural dam used as a reservoir to Hendersonville water supply, on a round knoll 0.5 miles south of west fork of Trace Ridge. To reach from Brevard, go north on State Highway 280 for 17.6 miles to Mills River store, turn left on State Highway 191 for 0.6 miles, thence left up Mills River road 5.0 miles to road fork 0.5 miles east of Yellow Gap CCC Camp, thence 3.5 miles to site of logging operations at creek forks, walk to left up small creek to fork of Trace Ridge, thence left out west fork to station. A drill hole in center of chiseled triangle in top of rock set in place directly under 16-inch red oak tree.

Reference mark is blazed triangle with nail in center on east side of tree.

GEODETIC POSITION: Lat. = 35°26'01.506"; Long. = 82°40'37.947" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Yellow	15°01'16.2"	195°00'55.2"	3.547848	2.2
Pisgah	82 57 55.8	262 55 09.3	3.863124	4.5
Pine	253 14 27.0	73 15 49.3	3.570735	2.3

ARDEN 8 (USGS, 1934; Buncombe County, North Carolina)

Located 2.2 miles (airline) southwest of Skyland, 0.5 miles east of Avery store, on highest point of high timbered top called Britton Mountain, 0.5 miles east of State Highway 191. A drill hole in center of chiseled triangle in top of flat rock set in place under 30-inch hickory tree.

Reference mark is blazed triangle with nail in center on south side of tree.

GEODETIC POSITION: Lat. = 35°27'58.907"; Long. = 82°34'00.499" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Forge	23°57'11.1"	203°55'15.6"	4.093866	7.7
Double Knob	57 34 09.5	237 32 11.1	3.785464	3.8
Jones	348 36 03.7	168 36 34.3	3.827940	4.2

GRID POSITION (N. C.): X = 938,165.3; Y = 643,720.7 (G-3)

ELEVATION: 2530 feet (T-5)

ARDEN 9 (USGS, 1934; Buncombe County, North Carolina)

Located 1.5 miles north of Fletcher, 0.5 miles north of Buncombe-Henderson County line, 350 feet east of U. S. Highway 25 on north edge of Oak Parks tract, 20 feet north and 100 feet west of street intersections, 10.8 feet southwest of fence corner. A drill hole in center of chiseled triangle in top of rock set in place directly under 12-inch oak tree.

Reference mark is blazed triangle with nail in center on south side of tree.

GEODETIC POSITION: Lat. = 35°27'04.049"; Long. = 82°30'29.966" (G-3)*

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Fleetwood	4°57'48.9"	184°57'18.3"	4.189489	9.6
Stoney	349 49 55.6	169 50 40.1	4.041299	6.8

ARDEN 10 (USGS, 1934; Henderson County, North Carolina)

Located 12 miles (airline) northeast of Brevard, 3 miles west of Mills River store, at junction of State Highways 191 and 280, 0.35 miles west and south of Mills River, 0.2 miles southwest of M. A. Moore's store on a round timbered top, property of J. P. Smith. To reach from Mills River store drive west on South Mills River road 1.6 miles, thence 2.2 miles, thence right 0.1 miles to home of J. P. Smith. Flag is about 0.2 miles north of Smith's house. A drill hole in top of rock set in place 3.3 feet south of 12-inch red oak tree.

Reference mark is a blazed triangle with nail in center on south side of tree.

GEODETIC POSITION: Lat. = 35°23'04.721"; Long. = 82°37'11.323" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Forge	5°33'49.2"	185°33'44.1"	3.359763	1.4
Yellow	108 24 43.8	288 22 23.2	3.810202	4.0
Double Knob	176 40 08.6	356 40 00.7	3.763600	3.6

ARDEN 11 (USGS, 1934; Transylvania County, North Carolina)

Located 9.5 miles (airline) north of Brevard, 3.5 miles northeast of Pink Beds guard station on highest point of Fork Ridge, 0.5 miles north of Funneltop Mountain, between two 2-1/2 foot red oak trees. To reach from Pisgah arch, drive north on U. S. Highway 276 10.2 miles, which is 0.1 miles

north of Pink Bed guard station, turn right 5.1 miles to a brush filled logging road on right; walk up logging road right to gap, turn left in gap to station, walking a distance of 1.0 miles. A drill hole in center of chiseled triangle in top of rock set in place directly under 2-1/2 foot red oak tree. Reference mark is blazed triangle with nail in center on north side of tree.

GEODETIC POSITION: Lat. = 35°22'16.852"; Long. = 82°43'16.514" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Pink	13°39'47.2"	193°39'20.3"	3.696575	3.1
Yellow	221 17 29.4	41 18 40.2	3.669945	2.9
Forge	275 04 31.0	95 07 57.2	3.955826	5.6

GRID POSITION (N. C.): X = 890,911.2; Y = 610,852.2 (G-3)
 ELEVATION: 4266 feet (T-5)

ARDEN 12 (USGS, 1934; Transylvania County, North Carolina)

Located 5.5 miles (airline) northeast of Brevard, 0.4 miles west of State Highway 280 at gap, 0.3 miles north of McCall store and gas station, on small round top, property of John Brown. To reach from Brevard, follow State Highway 280 north for 5.8 miles to gap. A drill hole in center of chiseled triangle in top of rock set in place directly under 10-inch pine tree. Reference mark is blazed triangle with nail in center on west side of tree.

GEODETIC POSITION: Lat. = 35°17'46.452"; Long. = 82°41'00.377" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Sugar Loaf	24°53'30.4"	204°51'50.3"	4.017465	6.5
Forge	216 26 23.1	36 28 30.6	3.971350	5.8
Fodderstack	288 58 51.4	109 00 16.5	3.595259	2.4

GRID POSITION (N. C.): X = 901,162.6; Y = 583,114.5 (G-3)
 ELEVATION: 2601 feet (T-5)

ARDEN 13 (USGS, 1934; Henderson County, North Carolina)

Located 10.5 miles (airline) northeast of Brevard, 13.0 miles northwest of Hendersonville, 1.0 miles south of Mills River Pink Bed road, at Yellow Gap, top of distinct round top, on lead 0.5 miles southwest of Queens Mountain, 0.3 miles east of mouth of State Rock Creek. To reach from Mills River store, drive north on State Highway 191 0.6 miles, thence left up Mills River road 8.7 miles to Yellow Gap, walk left to Queens Creek Mountain, keep left 200 yards, then turn right down lead to station. A drill hole in center of chiseled triangle in top of rock set in place 3 feet from base of 10-inch red oak tree.

Reference mark is blazed triangle with nail in center on tree.
 GEODETIC POSITION: Lat. = 35°22'46.919"; Long. = 82°40'32.725" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Pink	42°41'41.1"	222°39'39.5"	3.893916	4.9
Forge	289 34 23.1	109 36 14.6	3.712712	3.2
Fodderstack	343 59 15.3	164 00 24.6	4.040058	6.8

GRID POSITION (N. C.): X = 904,577.4; Y = 613,384.5 (G-3)
 ELEVATION: 3282 feet (T-5)

ARDEN 14 (USGS, 1934; Henderson County, North Carolina)

Located 1.0 miles southwest of Horse Shoe, on highest point on west end of lead from Fleetwood Hotel, 50 feet east of foot trail, 25 feet northeast of rock ledge. To reach from Horse Shoe Post Office, take foot trail from gate west of Horse Shoe Baptist Church. A drill hole in center of chiseled triangle on top of rock set in place directly under 10-inch black oak.

Reference mark is blazed triangle with nail in center on tree.
 GEODETIC POSITION: Lat. = 35°19'51.411"; Long. = 82°33'49.259" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Fodderstack	54°25'17.5"	234°22'33.5"	3.945302	5.5
Forge	124 39 27.5	304 37 25.4	3.811004	4.0
Stoney	250 11 59.7	70 14 39.4	3.869912	4.6

GRID POSITION (N. C.): X = 937,325.5; Y = 594,435.0 (G-3)
 ELEVATION: 2764 feet (T-5)

ARDEN 15 (USGS, 1934; Transylvania County, North Carolina)

Located 1.5 miles southeast of Penrose, on most southerly high top of mountain range overlooking Little River, 2000 feet south of the home of Randall Scott, 325 feet south of fence corner on ridge, 60 feet north of south end of ridge, 20 feet west of foot trail. To reach from Brevard, take State Highway 64 east 7.0 miles to Penrose Post Office, turn right on Little River road 1.0 miles, thence left at second left hand road 1.7 miles to the home of Randall Scott at road forks at gap. A drill hole in top of rock in center of chiseled triangle directly under 16-inch red oak tree.

Reference mark is blazed triangle with nail in center on east side of tree.
 GEODETIC POSITION: Lat. = 35°15'21.022"; Long. = 82°37'05.806" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Arden 12	127°06'28.9"	307°04'13.2"	3.871091	4.6
Fodderstack	145 26 51.9	325 26 01.5	3.589493	2.4
Fleetwood	234 09 03.2	54 12 21.3	4.028785	6.6

GRID POSITION (N. C.): X = 920,056.2; Y = 567,707.3 (G-3)
 ELEVATION: 2910 feet (T-5)

ARDEN 16 (USGS, 1934; Henderson County, North Carolina)

Located 4.5 miles northwest of Hendersonville, on highest point of west end of lead 2.0 miles southwest of Stony Mountain. To reach from Hendersonville (corner of 6th and Main Streets), take State Highway 191 north 3.6 miles, thence right by State Prison Camp 511, 0.9 miles to a T-road west in gap, thence left keeping right 0.5 miles to end of road at fence line, walk 150 yards west to round top at timber edge, 15 feet north from center of top. A drill hole in top of rock set in place directly under 10-inch chestnut oak. Reference mark is blazed triangle with nail in center on west side of tree.

GEODETIC POSITION: Lat. = 35°22'10.050"; Long. = 82°30'31.770" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Fleetwood	11°30'22.5"	191°29'52.9"	3.811691	4.0
Forge	86 44 06.3	266 40 09.8	4.013917	6.4
Stoney	311 36 17.1	131 37 02.6	3.424441	1.7

GRID POSITION (N. C.): X = 954,172.4; Y = 607,859.3 (G-3)
 ELEVATION: 2430 feet (T-5)

ARDEN 17 (USGS, 1934; Henderson County, North Carolina)

Located 10 miles (airline) northeast of Brevard, 4.55 miles southeast of Penrose Post Office, 1.0 miles northwest of Crab Creek School and Church. To reach from Brevard follow U. S. Highway 64 east for 7.4 miles to Penrose Post Office, thence right on Little River road 2.5 miles, thence left 5.3 miles to Crab Creek School and Church, thence left 1.4 miles, thence right 0.5 miles. Flag is 150 yards north of road on a flat timbered top called BlackJack Mountain, 18 feet south of dim road over top. A drill hole in center of chiseled triangle in top of rock set in place directly under 14-inch red oak tree. Reference mark is blazed triangle with nail in center on south side of tree.

GEODETIC POSITION: Lat. = 35°15'20.281"; Long. = 82°33'08.035" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Fleetwood	202°55'26.8"	22°56'27.5"	3.833478	4.2
Glassy	263 06 39.3	83 09 57.0	3.940685	5.4
Pinnacle 2	338 16 19.0	158 16 45.3	3.492758	1.9

GRID POSITION (N. C.): X = 939,758.1; Y = 566,920.5 (G-3)
 ELEVATION: 2708 feet (T-5)

ARDEN 19 (USGS, 1934; Buncombe County, North Carolina)

Located 7.0 miles southwest of Candler. To reach from Candler, take Pisgah Mountain road south 7.1 miles, turn right, keep right 0.7 miles to home of G. R. Davis, on timbered knoll, 0.5 miles north of Davis' house, 10 feet east of trail on south end of knoll. A drill hole in center of triangle in top of rock set in place directly under 24-inch chestnut tree.

Reference mark is blazed triangle with nail in center 3.85 feet S 35° W.
 GEODETIC POSITION: Lat. = 35°27'31.606"; Long. = 82°44'48.557" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Pisgah	14°03'27.8"	194°03'06.7"	3.578251	2.4
Rocky Face	98 40 36.5	278 38 44.7	3.691614	3.1
Young Pisgah	253 35 38.9	73 37 21.3	3.666275	2.9

ARDEN 20 (USGS, 1934; Transylvania County, North Carolina)

Located 4.5 miles (airline) northwest of Brevard, 5.0 miles northwest of Pisgah arch, 0.5 miles west of White Pine Camp Ground, on highest point of Bearpen Mountain. To reach from Pisgah arch, take U. S. Highway 276 north 2.7 miles to White Pine Camp Grounds, take trail right to highest point on Bearpen Mountain. A drill hole in center of chiseled triangle in top of rock set in place, directly under 14-inch chestnut oak tree.

Reference mark is blazed triangle with nail in center on south side of tree.
 GEODETIC POSITION: Lat. = 35°17'48.867"; Long. = 82°44'59.560" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Green Knob	144°53'46.9"	324°52'00.2"	3.908602	5.0
Pink	202 37 19.5	22 37 52.2	3.569676	2.3
Fodderstack	277 52 22.4	97 56 05.7	3.993917	6.1

GRID POSITION (N. C.): X = 881,361.0; Y = 584,100.6 (G-3)
 ELEVATION: 3394 feet (T-5)

DOUBLE KNOB (USGS, 1934; Henderson-Buncombe Counties, North Carolina)

Located 12 miles (airline) northwest of Hendersonville, 11 miles southwest of Asheville, 3 miles southwest of Avery. To reach from West Asheville, take State Highway 191 south 9.0 miles to Avery Creek road, thence right 3.1 miles to road left, thence left 0.6 miles to cabin on right, walk up creek, follow blazed logging trail to gap, turn left to highest point on timbered ridge. A bronze tablet stamped "DOUBLE KNOB 1934" and cemented in top of rock set in place.

Reference Mark 1: 13.3 feet N 05° W to drill hole in rock.
 Reference Mark 2: 9.15 feet S 50° E to drill hole in rock.
 Reference Mark 3: 10.75 feet S 83° W to drill hole in rock.
 GEODETIC POSITION: Lat. = 35°26'12.678"; Long. = 82°37'24.688" (G-3)
 Distance

To Station	Geodetic Azimuth	Back Azimuth	Log. Meters	Miles
Pisgah	84°11'28.4"	264°06'50.1"	4.085628	7.6
Grassy	177 30 28.6	357 30 24.9	3.566068	2.3
Skyland	242 33 46.6	62 37 44.9	4.066920	7.2

GRID POSITION (N. C.): X = 920,895.6; Y = 633,599.9 (G-3)
 ELEVATION: 3399 feet (T-5)

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

Located 14.9 miles southwest of courthouse in Asheville, via U. S. Highways 19, 23, and Pisgah Highway, 4.0 miles southwest of U. S. Post Office at Candler, on Pisgah Highway, on highway right-of-way, 1.0 miles southwest of Gladys School building, 0.3 miles south along Pisgah Highway from concrete bridge over Curtis Creek, on east side of highway, 148 feet east of east edge of concrete pavement, 74 feet south of Y-road intersection to J. M. Israel's house, 80 feet south of three mailboxes on one post that stands on northwest side of highway outside of sharp curve. A standard tablet set in concrete post.
 Reference Mark 1: 8.7 feet North to telephone pole (painted BM).
 Reference Mark 2: 54.5 feet South to 6-inch locust tree.
 Reference Mark 3: 53.0 feet West to light pole across highway.
 ELEVATION: 2301.373 feet or 701.460 meters (T-2)

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

Located 15.6 miles southwest of courthouse at Asheville, via U. S. Highways 19, 23 and Pisgah Highway, 4.7 miles southwest of U. S. Post Office at Candler, on Pisgah Highway right-of-way, 1.7 miles south of Gladys School building, 300 feet northeast of Stony Fork School building, set horizontally in southeast wingwall of concrete bridge over South Homin Creek, 35.5 feet north of center line of Pisgah Highway, and T-road intersection from east, approximately 100 feet southeast of small water mill building, set flush in top of wingwall, approximately same elevation as center line of highway. A standard tablet set horizontally in southeast wingwall of bridge.
 Reference Mark 1: 4.6 feet South to telephone pole (painted BM).
 Reference Mark 2: 1.4 feet Northwest to east guard wall.
 ELEVATION: 2302.335 feet or 701.753 meters (T-2)

* NOTE: USC&GS MARKERS ARE IN THE
 NATIONAL GEODETIC SURVEY DATA BASE
 DO NOT KEY THESE MARKERS

FB 57 (USED, 1925; Buncombe County, North Carolina)

Located about 0.3 miles northwest along State Highway 191 from intersection of Highway 191 with State Highway 280, at New Haven, 33 feet east of highway and 75 feet south of concrete culvert. Raised square chiseled on large rock.

ELEVATION: 2180.02 feet (T-3)

FB 59 (USED, 1925; Transylvania County, North Carolina)

Located 3 miles west of Calhoun, at Patton Bridge across French Broad River, on top of right bank pier, downstream side. Cross cut on top of anchor bolt painted red.

ELEVATION: 2098.0 feet (E-4)

FB 60 (USED, 1925; Transylvania County, North Carolina)

Located at Pisgah Forest station, on U. S. Highway 64 bridge across Davidson River, on top of right bank pier, upstream side. Raised square cut in concrete and painted red.

ELEVATION: 2103.647 feet or 641.193 meters (T-2)

FERRIN KNOB (USGS, 1934; Buncombe-Henderson Counties, North Carolina)

Located about 2-3/4 miles (airline) southeast of Beaverdam at Forest Service Lookout Tower on Ferrin Knob. Station is center of tower.

GEODETIC POSITION: Lat. = 35°27'34.120"; Long. = 82°40'23.400" (G-3)

To Station	Geodetic Azimuths		Log. Meters	Miles
	Azimuth	Back Azimuth		
Pisgah	63°46'42.1"	243°43'47.2"	3.928475	5.3
Smathers	125 05 08.2	305 01 28.6	4.066064	7.2
Spivey	187 00 49.6	7 01 34.1	4.198912	9.8

GRID POSITION (N. C.): X = 906,423.1; Y = 642,371.2 (G-3)

ELEVATION (EAVES): 4064 feet (T-5)

FLEETWOOD (USGS, 1934; Henderson County, North Carolina)

Located 5 miles west of Hendersonville, top of Jumpoff Mountain, 750 feet southeast of old hotel site. A standard tablet stamped "FLEETWOOD 1934".

Note: Original tablet was set at hotel site. TVA party found the tablet in 1940 750 feet southeast of old hotel site and established the position and elevation given below.

GRID POSITION (N. C.): X = 949,767.3; Y = 586,583.6 (T-4)

ELEVATION: 3107 feet (T-5)

FODDERSTACK (USGS, 1934; Transylvania County, North Carolina)

Located 6.5 miles northeast of Brevard on small round knoll, on the highest point of Fodderstack Mountain, 40 feet west of the Big Rock, 30 feet north of skid road. To reach from Brevard, take U. S. Highway 64 east 6.7 miles, thence left through gate to rock quarry 0.2 miles, north of H. C. Lydays home, walk up skid road to highest point and station. A standard tablet stamped "FODDERSTACK 1934" and cemented in rock set in place.

Reference Mark 1: 79.0 feet S 05° W to drill hole in rock ledge.
Reference Mark 2: 37.5 feet N 40° W to drill hole in rock ledge.
Reference Mark 3: 25.5 feet N 40° E to drill hole in rock ledge.

GEODETIC POSITION: Lat. = 35°17'04.866"; Long. = 82°38'33.020" (G-3)

To Station	Geodetic Azimuths		Log. Meters	Miles
	Azimuth	Back Azimuth		
Cedar	78°02'12.9"	257°56'42.7"	4.169487	9.2
Pink	119 52 08.2	299 48 57.5	3.982789	6.0

GRID POSITION (N. C.): X = 913,213.8; Y = 578,462.7 (G-3)

ELEVATION: 3021 feet (T-5)

FORGE (USGS, 1934; Henderson County, North Carolina)

Located 11 miles northeast of Brevard, 3.5 miles southwest of Mills River store, on highest point of Forge Mountain. To reach from Brevard, take State Highway 280 (gravel road) 11.8 miles to filling station on right, turn left 0.7 miles by J. H. Carriens home, follow trail leading to highest point and station. Bronze tablet stamped "FORGE 1934" and set in place in cement.

Reference Mark 1: 17.2 feet S 15° W to drill hole in rock.
Reference Mark 2: 14.0 feet N 75° W to drill hole in rock.
Reference Mark 3: 21.2 feet N 70° E to drill hole in rock.

Report on Condition (TVA, 1940): Tablet was gone. Rock was out of place. Rock in which tablet had been in was put back in place by two remaining references.

GEODETIC POSITION: Lat. = 35°21'50.776"; Long. = 82°37'20.116" (G-3)

To Station	Geodetic Azimuths		Log. Meters	Miles
	Azimuth	Back Azimuth		
Fodderstack	11°48'35.9"	191°47'53.8"	3.954312	5.6
Pink	68 25 53.3	248 22 00.3	4.039107	6.8
Yellow	126 10 21.4	306 08 05.9	3.864363	4.5
Double Knob	179 10 52.5	359 10 49.7	3.906988	5.0

GRID POSITION (N. C.): X = 920,307.7; Y = 607,126.4 (G-3)

ELEVATION: 3280 feet (T-5)

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

Located 16.8 miles southwest of courthouse in Asheville, via Pisgah Highway, U. S. Highways 19 and 23, 5.9 miles southwest of U. S. Post Office in Candler, on Pisgah Highway right-of-way, 1.2 miles south of Stony Fork School, 250 feet east of one-story frame house of J. E. Elliott, set horizontally in southwest wingwall of concrete bridge over Stony Fork Creek, just north of Y-road intersection from northwest, 5.6 feet west of south end of west guard wall. A standard tablet.

ELEVATION: 2440.760 feet or 743.945 meters (T-2)

GAGE BM 1 (USGS, 1920; French Broad River; Transylvania County, N. C.)

Located on left bank of French Broad River at mile 183.7, 700 feet east of Southern Railway station at Blantyre, 3 miles downstream from mouth of Little River. Top of bolt leaded in top of downstream corner of left bank abutment of highway bridge, 20.58 feet above gage zero.

ELEVATION: 2080.90 feet (T-3)

GAGE BM 1 (USGS, 1934; Mills River; Henderson County, North Carolina)

Located on right bank of Mills River, about 1-1/2 miles below confluence of North and South Forks Mills River, 4-1/2 miles north-northwest of Horse Shoe Post Office, about 2 miles upstream from Mills River, in concrete of intake headwall 4.56 feet above gage zero. A standard reference tablet.

ELEVATION: 2092.97 feet (T-3)

GAGE BM 2 (USED, 1925; French Broad River; Henderson County, North Carolina)

Located on right side of French Broad River at mile 183.7, 700 feet east of Southern Railway station at Blantyre, 3 miles downstream from mouth of Little River. Square cut in concrete on top of upstream end of right bridge pier of highway bridge over French Broad River, 19.38 feet above gage zero.

ELEVATION: 2079.70 feet (G-3)

GAGE BM 2 (USGS, 1934; Mills River; Henderson County, North Carolina)

Located on right bank of Mills River, about 1-1/2 miles below confluence of North and South Forks Mills River, 4-1/2 miles north-northwest of Horse Shoe Post Office, about 2 miles upstream from Mills River. Standard bronze tablet set in concrete sill of shelter stairway, 12.63 feet above gage zero.

ELEVATION: 2101.04 feet (T-3)

GAGE BM 4 (USGS, 1920; Davidson River, Transylvania County, North Carolina)

Located on right bank of Davidson River, 200 feet upstream from Highway 280 bridge, 5 miles northeast of Brevard, and 1.5 miles upstream from town of Pisgah Forest, about 2 miles upstream from mouth of Davidson River, 6 feet upstream from gage intake pipe, 7.15 feet above gage zero. A standard bronze reference tablet set in concrete gage post.

ELEVATION: 2122.286 feet or 646.874 meters (T-2)

GAGE BM 4 (USGS, 1926; South Fork Mills River, Transylvania County, N. C.)

Located on left bank of South Fork Mills River, at entrance to The Pink Beds, Pisgah National Forest, 4 miles south of Big Pisgah Mountain, and the northern county corner and 9 miles north of Brevard, 52 feet from streamward face of gage well in line with the upstream face, 10.46 feet above gage zero. A standard reference tablet set in 2-foot concrete block.

ELEVATION: 3148.84 feet (G-3)

GAGE BM 5 (USGS, 1920; Transylvania County, North Carolina)

Located on right bank of Davidson River, 200 feet upstream from Highway 280 bridge, 5 miles northeast of Brevard, and 1.5 miles upstream from town of Pisgah Forest, about 2 miles upstream from mouth of Davidson River, 8 feet downstream from gage shelter, 12.33 feet above gage zero. A standard bronze reference tablet set in concrete gage post.

ELEVATION: 2127.473 feet or 648.455 meters (T-2)

GAGE BM 6 (USGS, 1926; Transylvania County, North Carolina)

Located on right side of South Fork Mills River, at entrance to The Pink Beds, Pisgah National Forest, 4 miles south of Big Pisgah Mountain, and the northern county corner, and 9 miles north of Brevard, 9 feet downstream from right end of control, 2.20 feet above gage zero. A standard reference tablet set in ledge rock.

ELEVATION: 3140.58 feet (G-3)

GRASSY (USGS, 1934; Buncombe County, North Carolina)

Located about 10 miles by road southwest of West Asheville, on highest point of Grassy Knob. To reach station from West Asheville, drive south on State Highway 191 for 6.0 miles to Bent Creek road, thence right 2.9 miles to Camp Daniel Boone, thence by trail about 1.5 miles south to top and station. A standard tablet stamped "GRASSY 1934" and cemented in rock.

Reference Mark 1: 3.65 feet N 18° W to 18-inch red oak.
Reference Mark 2: 19.1 feet S 44° W to 8-inch oak.
Reference Mark 3: 45.63 feet S 49° E to 6-inch locust.

GEODETIC POSITION: Lat. = 35°28'12.036"; Long. = 82°37'31.038" (G-3)

To Station	Geodetic Azimuths		Log. Meters	Miles
	Azimuth	Back Azimuth		
Pisgah	67°40'10.1"	247°35'35.3"	4.111468	8.0
Spivey	170 35 04.7	350 34 09.1	4.167935	9.1
Skyland	260 49 48.9	80 53 51.0	4.027345	6.6

GRID POSITION (N. C.): X = 920,811.1; Y = 645,677.8 (G-3)

ELEVATION: 3318 feet (T-5)

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

Located 17.9 miles southwest of courthouse in Asheville, via U. S. Highways 19, 23 and Pisgah Highway, 7.0 miles southwest of U. S. Post Office at Candler, on Pisgah Highway, right-of-way, 2.3 miles south of Stony Fork School building, 100 feet southwest of cobble stone chimney that stands on left bank of Stony Creek, 400 feet north of Y-road intersection from southwest, in southeast wingwall of steel bridge over Stony Fork Creek, at "Bridge Load Limit" sign that is on right bank of creek, 0.1 miles north of Stony Fork Camp Ground. A standard tablet set flush and horizontally.

ELEVATION: 2610.221 feet or 795.597 meters (T-2)

J 39 (USC&GS, 1932; Buncombe County, North Carolina)

Located at Skyland, 100 yards north of Southern Railway station, at an overhead road crossing, and in the west face of the center one of the three easternmost foundation piers, paralleling the track, and 6 feet west of the west rail. A standard tablet stamped "2257.413 J 39 1932" and set vertically.

ELEVATION: 2257.023 feet or 687.942 meters (C-2)

J 56 (USC&GS, 1934; Transylvania County, North Carolina)

Located 2.5 miles northeast along the Southern Railway from Brevard, at Pisgah Forest, across the tracks from the Southern Railway station, 470 yards west of milepost 19, in the southeast corner of the yard of the Carr Lumber Company office, 16 yards west of the center line of State Highway 284, and 18 yards north of the center line of the main track. A standard tablet stamped 2109.625 J 56 1934" and set in concrete monument, projecting about 7 inches above ground.

ELEVATION: 2109.215 feet or 642.890 meters (C-2)

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

Located 19.1 miles southwest of courthouse in Asheville, via U. S. Highways 19 and 23, Pisgah Highway, 8.2 miles southwest of U. S. Post Office at Candler, on Pisgah Highway, in the Pisgah National Forest, 3.5 miles south of Stony Fork School building, 1.1 miles southeast of Stony Fork Camp Ground, 0.5 miles east of long hairpin curve up mountain side from Stony Fork Camp Ground, 10 feet west where branch enters 18-inch metal culvert, set flush and horizontally in large boulder on south side of Pisgah Highway, 5 feet above road surface. A standard tablet.

Reference Mark 1: 93.5 feet Northwest to 48-inch black oak tree.
Reference Mark 2: 39.0 feet West to 30-inch poplar tree.
Reference Mark 3: 7.0 feet South to 6-inch dogwood tree.

ELEVATION: 3035.102 feet or 925.101 meters (T-2)

JONES (USGS, 1934; Henderson County, North Carolina)

Located 16 miles northeast of Brevard, 8 miles northeast of Hendersonville, 1.5 miles northeast of Mills River store, 500 feet east of road fork, 35 feet south of road, in front yard of home of Mary Jones (colored), 2.8 feet northeast of black oak tree. To reach from Hendersonville, take State Highway 191 northwest 8.8 miles (0.6 miles north of Mills River store), turn right at Jeffery Road 0.9 miles, thence left 0.8 miles, thence right 0.1 miles to station. A bronze tablet stamped "JONES 1934" and cemented in rock set in place.

Reference Mark 1: 52.5 feet S 20° W to drill hole in rock set in place.

Reference Mark 2: 28.3 feet N 30° W to drill hole in rock set in place.

Reference Mark 3: 42.0 feet N 75° E to drill hole in rock set in place.

GEODETIC POSITION: Lat. = 35°24'24.870"; Long. = 82°33'07.793" (G-3)

Geodetic Azimuths

To Station	Azimuth	Back Azimuth	Log. Meters	Miles
Forge	53°18'29.5"	233°16'03.5"	3.900040	4.9
Double Knob	117°09'45.9"	297°07'17.0"	3.862300	4.5
Skyland	204°02'33.9"	24°04'03.1"	3.978566	5.9

GRID POSITION (N. C.): X = 941,747.8; Y = 621,939.8 (G-3)

ELEVATION: 2201 feet (T-5)

K 56 (USCGS, 1934; Transylvania County, North Carolina)

Located 5 miles northeast along the Southern Railway from Brevard, 1.3 miles east of the station at Davidson River, about 10 yards east of milepost 17, at a road crossing, about 4 yards east of the center of a road crossing, and about 4 yards north of the center line of the track. A standard tablet stamped "2097.263 K 56 1934" and set in concrete monument projecting about 6 inches above ground.

Note: Searched for but not recovered, June, 1945.

ELEVATION: 2096.843 feet or 639.119 meters (C-2)

K 141 (USCGS, 1935; Buncombe County, North Carolina)

Located 20.0 miles southwest of courthouse in Asheville, via Highways 19, 23 and Pisgah Highway, 9.1 miles southwest of U. S. Post Office at Candler, on Pisgah Highway, in Pisgah National Forest, 2.0 miles southeast of Stony Fork Camp Ground, 1.4 miles east of first long hairpin curve up the north side of mountain, 30 feet southwest of center line of Pisgah Highway, 27.8 feet west of south end of 18-inch metal culvert and branch, 5 feet above highway. A standard tablet set in concrete post.

Reference Mark 1: 8.0 feet N 80° W to 12-inch red oak tree (painted BM).

Reference Mark 2: 54.4 feet N 30° W to 10-inch poplar tree (painted BM).

Reference Mark 3: 24.7 feet Due East to 20-inch ash tree.

ELEVATION: 3376.463 feet or 1029.148 meters (T-2)

KLAER (TVA, 1941; Henderson County, North Carolina)

Located about 15-1/2 miles northwest of Hendersonville. To reach from intersection of State Highway 191 and U. S. Highway 25, go 8.1 miles northwest on State Highway 191 to Mills River road, turn left on Mills River road and go 4.8 miles to Wash Creek road intersection, go right on Wash Creek road 2.0 miles to "RCK 2", turn left on wood road, go 0.5 miles to top of ridge, leave truck and walk about 3.8 miles northwest on trail along North Fork Mills River and Middle Fork Fletcher Creek to trail intersection, 442.7 feet N 77° 30' E from trail intersection. A nail and TVA washer in root of 18-inch oak stump.

Reference Mark 1: 7.4 feet N 25° W to nail and washer in 3-inch laurel.

Reference Mark 2: 4.4 feet N 54° E to nail and washer in 2-inch laurel.

GRID POSITION (N. C.): X = 897,929.8; Y = 633,712.5 (T-4)

ELEVATION: 2915 feet (T-5)

L 56 (USCGS, 1934; Transylvania County, North Carolina)

Located at Penrose, 83 yards west of Southern Railway station, about 20 yards east of milepost 15, about 25 yards east of bridge 15.0, about 5 yards south of center line of track. Standard tablet stamped "2086.495 L 56 1934" set in concrete monument, projecting about 6 inches above ground.

Note: Searched for but not recovered, June, 1945.

ELEVATION: 2086.072 feet or 635.836 meters (C-2)

L 141 (USCGS, 1935; Buncombe County, North Carolina)

Located 21.1 miles southwest of courthouse in Asheville, via U. S. Highways 19, 23 and Pisgah Highway, 10.2 miles southwest of post office in Candler, on Pisgah Highway, in Pisgah National Forest, 3.3 miles southeast of Stony Fork Camp Ground, 0.9 miles southwest of second long hairpin curve on north side of mountain above Stony Fork Camp Ground, 1.3 miles north of Cuthroat Gap, north side Pisgah Highway, 25 feet from center line highway, on outside of sharp curve. Standard tablet set in concrete post.

Reference Mark 1: 17.6 feet S 55° E to 40-inch white oak painted BM.

Reference Mark 2: 31.9 feet S 50° W to 30-inch black oak.

Reference Mark 3: 12.3 feet N 30° W to 12-inch chestnut oak.

ELEVATION: 3799.467 feet or 1158.080 meters (T-2)

LHT 1618 (TVA, 1939; Henderson County, North Carolina)

Located 1.3 miles north post office in Horse Shoe, via Horse Shoe-Mills River road, 3.4 miles south Mills River, via State Highway 191 and Horse Shoe-Mills River road (Ladson Farm), on T. L. Brown's property, 1.0 miles north of bridge over French Broad River, west side of road at Y-road intersection to northwest, in yard of T. L. Brown, 85.0 feet south of two-story frame house of Brown's, 30.5 feet north of two mailboxes that stand at corner of yard. Standard tablet stamped "LHT 1618 1940" set nearly flush with ground in concrete post.

Reference Mark 1: 18.4 feet S 10° W to 10-inch maple tree.

Reference Mark 2: 4.7 feet N 20° E to 10-inch forked maple tree.

Reference Mark 3: 20.0 feet East to center line of road.

ELEVATION: 2092.781 feet or 637.881 meters (T-2)

LHT 1619 (TVA, 1939; Henderson County, North Carolina)

Located 2.3 miles southeast Mills River, via State Highway 191 and Mills River-Horse Shoe road, about 2.0 miles northeast of post office in Horse Shoe, on James Ladson heirs property, 1.2 miles southwest of concrete bridge over French Broad River on Highway 191, 0.7 miles southwest of highway, west side of county road, 23.5 feet from center line, 55 feet south of Y-road intersection west, 400 feet north of Ladson heirs large two-story frame house, 23 feet southwest of two mailboxes just southwest of power line. Standard tablet stamped "LHT 1619 1940" and set in concrete post.

Reference Mark 1: 14.4 feet N 20° E to 20-inch post oak tree.

Reference Mark 2: 23.3 feet N 55° W to 15-inch white pine tree.

Reference Mark 3: 17.0 feet Due South to power pole.

ELEVATION: 2113.431 feet or 644.175 meters (T-2)

LHT 1620 (TVA, 1939; Henderson County, North Carolina)

Located 1.1 miles southeast Mills River general store, by Highway 191, 7.5 miles northwest courthouse in Hendersonville, on A. M. Foster's property, 1.0 miles northwest concrete bridge over French Broad River, west side of highway, 24.5 feet from center line, just across highway from Y-road intersection northwest, northwest corner of Foster's yard, 300 feet northeast of Foster's residence, 1 foot east of north-south fence, 2.8 feet southeast of fence corner. Standard tablet stamped "LHT 1620 1940" and set in concrete post.

Reference Mark 1: 7.8 feet N 10° W to fence corner of cross fence.

Reference Mark 2: 27.8 feet S 60° E to 15-inch post oak in yard.

Reference Mark 3: 80.0 feet S 15° E to 12-inch white oak in yard.

ELEVATION: 2076.561 feet or 632.937 meters (T-2)

LHT 1621 (TVA, 1939; Henderson County, North Carolina)

Located 3.9 miles east North Mills River Camp Ground, 1.8 miles west Mills River, 10.5 miles northwest courthouse in Hendersonville, by State Highway 191 and on Yellow Gap road, 1.1 miles west highway, 0.2 miles northwest old mill building, 400 feet southeast Y-road intersection north, north side county road, 19.5 feet from center line, west side small hollow, 150 feet west Y-road intersection northeast, set flush in rock outcrop, about 4.5 feet above road surface, 62 feet north of north end old wood dam. Standard tablet stamped "LHT 1621 1940" and set horizontally.

Reference Mark 1: 13.3 feet N 25° E to 10-inch forked maple tree.

Reference Mark 2: 43.0 feet Due East to 20-inch forked maple in hollow.

Reference Mark 3: 93.4 feet S 25° E to 24-inch leaning maple across rd.

ELEVATION: 2129.937 feet or 649.206 meters (T-2)

LHT 1622 (TVA, 1939; Henderson County, North Carolina)

Located 2.8 miles northeast North Fork Mills River Camp Ground, 2.9 miles west Mills River general store, 11.5 miles northwest courthouse in Hendersonville, by State Highway 191 and on Yellow Gap road, on Mrs. J. W. Crawford's property, 2.2 miles west highway, 27.5 feet south centerline county road, 118 feet southeast two-story frame residence of Mrs. Crawford, 5 feet east of east gate post to barn lot, 54.5 feet southwest of southwest corner of barn, 1.8 feet northwest barb wire fence, set nearly flush with ground, just east of road to barn, 41.5 feet east telephone pole and mailbox. Standard tablet stamped "LHT 1622 1940" and set in concrete post.

Reference Mark 1: 86.5 feet N 80° W to 36-inch white pine in yard.

Reference Mark 2: 54.5 feet N 75° E to southwest corner of barn.

Reference Mark 3: 27.5 feet N 45° W to center line of road.

ELEVATION: 2139.641 feet or 652.164 meters (T-2)

LHT 1623 (TVA, 1939; Henderson County, North Carolina)

Located 1.7 miles east of North Mills River Camp Ground, 4.0 miles west of Mills River (general store), 12.6 miles northwest of courthouse in Hendersonville, via State Highway 191 and on Yellow Gap road, on property of George Gorden, 3.3 miles west of State Highway 191, 0.2 miles east of T-road intersection south, 145 feet east of one-story residence of S. S. Whittaker, 28 feet east of drive to Whittaker house, on north side of county road, 26.5 feet from center line of county road, 11.4 feet north of barb wire fence. A standard tablet stamped "LHT 1623 1940" and set in concrete post.

Reference Mark 1: 11.7 feet N 65° W to 12-inch black gum tree.

Reference Mark 2: 42.0 feet N 30° E to 24-inch forked post oak.

Reference Mark 3: 9.4 feet S 60° E to 10-inch persimmon tree.

ELEVATION: 2157.322 feet or 657.553 meters (T-2)

LHT 1624 (TVA, 1939; Henderson County, North Carolina)

Located 0.9 miles southeast of North Mills River Camp Ground, 4.8 miles west of Mills River, 13.5 miles northwest of courthouse in Hendersonville, via State Highway 191, and on Yellow Gap road, on property of B. H. Owens, 4.1 miles west of State Highway 191, 52 feet north of Yellow Gap road, 20.5 feet west of T-road intersection north, 50 feet east of Seniard Creek center line of old bridge, 60 feet southwest of Bill Owen's crib, 200 feet southwest of large two-story house of Bill Owen. A standard tablet stamped "LHT 1624 1940" and set in rock outcrop, flush.

Reference Mark 1: 62.7 feet S 60° W to northeast corner of new wood bridge over Seniard Cr.

Reference Mark 2: 29.8 feet S 80° E to telephone pole.

Reference Mark 3: 46.0 feet S 45° E to 30-inch apple tree in corner of fence.

ELEVATION: 2174.599 feet or 662.819 meters (T-2)

LHT 1625 (TVA, 1939; Henderson County, North Carolina)

Located 3.6 miles northeast of Yellow Gap, 5.7 miles west of Mills River via Yellow Gap road, 14.3 miles northwest of courthouse in Hendersonville, via State Highway 191, and on Yellow Gap road, in Pisgah National Forest, at North Mills River Camp Ground, 5 miles west of State Highway 191, 80.5 feet south of Yellow Gap road, 140 feet southwest of intersection of Wash Creek road with Yellow Gap road, 300 feet northwest of trailer parking lot, 33 feet northeast of stone chimney of picnic shelter building, and 180 feet north of small wood bridge over North Mills River. A standard tablet stamped "LHT 1625 1940" and set in concrete post.

Reference Mark 1: 18.0 feet Due South to 30-inch poplar tree (painted cross.)

Reference Mark 2: 48.3 feet N 70° W to 12-inch poplar tree (painted FBM).

Reference Mark 3: 50.3 feet S 70° E to 24-inch poplar tree (painted FBM).

ELEVATION: 2218.713 feet or 676.265 meters (T-2)

LHT 1858 (TVA, 1939; Transylvania County, North Carolina)

Located at Calhoun, 1.4 miles south of U. S. Post Office in Penrose, 7.0 miles east of courthouse in Brevard, via U. S. Highway 64 and Eagles Nest Road, on Crab Creek Road, on east side of county road, 75 feet north of intersection of road to Eagles Nest, 22 feet south of drive to house, 3.5 feet west of old plank fence, 150 feet south of one-story frame unpainted house, 175 feet southeast of two-story frame house painted white across road, 35 feet south of corner of woven wire fence, 26 feet from center line of road, 41 feet east of telephone pole, and 50 feet north of old building site. A standard tablet stamped "LHT 1858 1941" and set in concrete post.

Reference Mark 1: 37.0 feet N 35° W to 48-inch black oak tree.

Reference Mark 2: 19.6 feet N 45° E to 15-inch spruce pine tree.

Reference Mark 3: 70.1 feet S 40° W to 12-inch white pine across road.

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ELEVATION: 2141.971 feet or 652.874 meters (T-2)

LR 532 (TVA, 1940; Transylvania County, North Carolina)

Located 13.6 miles northwest of Brevard. To reach from Pisgah arch at junction of U. S. Highway 216 and State Highway 280, go northeast along State Highway 280 for 5.1 miles to T-road left at Henderson-Transylvania county line, turn left on this South Mills River road and go 2.1 miles to foot bridge over South Mills River, cross river and follow road 800 feet, then turn left on Squirrel Gap trail and go 0.75 miles to gap just beyond small clearing where house used to be and two stone chimneys still stand, turn sharp left and climb to highest point on ridge top. There is no trail leading to the ridge top and the laurel is thick. Station is in a clearing on top of ridge and about 40 feet N 80° E of very large twin oak. A 1- by 1-inch angle iron stamped "TVA LR 532".

Reference Mark 1: 16.1 feet S 80° W to 40-inch twin oak.
Reference Mark 2: 23.0 feet S 30° W to 18-inch chestnut oak.

Reference Mark 3: 12.7 feet S 35° E to 8-inch oak.

GRID POSITION (N. C.): X = 902,976.4; Y = 604,025.5 (T-4)

ELEVATION: 3270 feet (T-5)

LR 533 (TVA, 1940; Transylvania County, North Carolina)

Located 15.4 miles northwest of Brevard. To reach from Pisgah arch at junction of State Highway 280 and U. S. Highway 276, continue northeast on State Highway 280 for 12.3 miles to North Mills River road, turn left on North Mills River road, and go 10.9 miles to Sunfish Cove and "LR 569", follow trail southwest along west side of Sunfish Creek, after trail cross Sunfish Creek, go 900 feet and turn sharp to left, continue on this trail to the end, climb upward and southeastward to top of ridge (it is advisable to blaze path to ridge top in order to find trail on return), follow the ridge upward to Rich Mountain at the highest point and ridge intersections. Station is about 300 feet S 60° W from highest point in center line of ridge and near two very large oak trees with large triangle cut on them. A 1- by 1-inch angle iron stamped "TVA LR 533".

Reference Mark 1: 12.48 feet S 20° W to 50-inch oak.

Reference Mark 2: 7.50 feet West to 4-inch hickory.

Reference Mark 3: 29.91 feet N 50° W to 40-inch oak.

GRID POSITION (N. C.): X = 896,972.9; Y = 610,122.4 (T-4)

ELEVATION: 3952 feet (T-5)

LR 534 (TVA, 1940; Henderson County, North Carolina)

Located 12 miles northeast of Brevard. To reach from Pisgah arch at junction of U. S. Highway 276 and State Highway 280, go northeast along Highway 280 for 10.1 miles to crossroads, turn left and go 0.3 miles to "Y", thence left again for 1.0 miles to another "Y", continue left for 3.1 miles crossing river and following road on north side of river to a T-intersection, turn right and go 500 feet to gate, on the ridge 800 feet northwest is a cemetery. Station is on highest point of ridge and 80 feet N 40° W from northwest corner. A 1- by 1-inch angle iron stamped "TVA LR 534".

Reference Mark 1: 19.25 feet N 20° W to 8-inch oak.

Reference Mark 2: 25.05 feet S 60° E to 10-inch oak.

Reference Mark 3: 24.75 feet N 50° W to center line of Man-hole on Hendersonville Water line.

GRID POSITION (N. C.): X = 919,864.2; Y = 611,394.1 (T-4)

ELEVATION: 2310 feet (T-5)

LR 536 (TVA, 1940; Henderson County, North Carolina)

Located 8 miles northeast of Brevard. To reach from square at Brevard, follow U. S. Highway 64 toward Hendersonville 6.6 miles to Penrose Post Office, turn right for 2.8 miles to Donald Merial's store, turn left for 5 miles to Crab Creek Church, turn left 2.6 miles (keeping main road) to sharp curve in road. Station is 16 feet southwest of center of curve at intersection of woods road. A 1- by 1-inch angle iron, 0.4 feet above ground.

Reference Mark 1: 10.55 feet S 65° W to 16-inch chestnut oak.

Reference Mark 2: 13.00 feet S 33° W to 2-inch oak.

Reference Mark 3: 29.80 feet Due East to 3-inch poplar.

GRID POSITION (N. C.): X = 932,136.7; Y = 566,151.9 (T-4)

ELEVATION: 2664 feet (T-5)

LR 537 (TVA, 1940; Henderson County, North Carolina)

Located 3.1 miles west of Hendersonville. To reach from corner of Main Street and Fifth Avenue in Hendersonville, drive west on Fifth Avenue for 4.5 miles to a dirt side road left in a curve. Station is 70 feet N 30° W from intersection, on top of a 12-foot bank, 25 feet northwest of center line of concrete road. A 1- by 1-inch angle iron stamped "TVA LR 537".

Reference Mark 1: 30.4 feet South to inside right angle in culvert headwall.

Reference Mark 2: 31.2 feet S 45° E to TVA washer and nail in center line of highway in crack.

GRID POSITION (N. C.): X = 953,803.4; Y = 587,657.7 (T-4)

ELEVATION: 2863 feet (T-5)

LR 538 (TVA, 1940; Henderson County, North Carolina)

Located 3.5 miles northwest of Hendersonville. To reach from junction of U. S. Highway 25, State Highway 191 and North Main Street at Hendersonville, drive 2.5 miles on Highway 191 to dirt road left, turn left on this road and go 0.7 miles to "Y", turn right and go 0.2 miles to an open field with two cedar trees in it and 185 feet east of road. Station is on west side of road and 8 feet from center line in a clump of small trees. A 1- by 1-inch angle iron stamped "TVA LR 538".

Reference Mark 1: 2.75 feet South to 3-inch dogwood.

Reference Mark 2: 4.18 feet N 40° W to 3-inch hickory.

Reference Mark 3: 12.28 feet N 75° W to 6-inch hickory.

GRID POSITION (N. C.): X = 953,965.4; Y = 598,270.6 (T-4)

ELEVATION: 2618 feet (T-5)

LR 539 (TVA, 1940; Henderson County, North Carolina)

Located 3.0 miles southwest of Hendersonville. To reach from intersection of Kanuga and Willow Streets where Brevard branch of the Southern Railway crosses Kanuga Street in Hendersonville, go left on Willow Street for 2.3 miles, turn left on gravel road and go 1.1 miles to a field road right, Station is 332 feet S 70° E from intersection of road on highest point of clear field between two lone 6-inch locust trees. A 1- by 1-inch angle iron stamped "TVA LR 539".

Reference Mark 1: 14.95 feet N 80° W to 6-inch locust.

Reference Mark 2: 32.75 feet N 30° E to 6-inch locust.

GRID POSITION (N. C.): X = 955,011.1; Y = 576,951.9 (T-4)

ELEVATION: 2388 feet (T-5)

LR 550 (TVA, 1939; Transylvania County, North Carolina)

Located 4.8 miles north of courthouse at Brevard along U. S. Highway 276, 2.8 miles northwest of U. S. Post Office at Pisgah Forest, 1.3 miles northwest of concrete bridge over Davidson River at intersection of State Highway 280 and U. S. Highway 276, on north side of Highway, 15 feet from center line of highway, on north headwall of small concrete bridge over Thrift Cove Branch, 8 inches west of east end of headwall, 300 feet south of equipment depot, 130 feet southwest of transmission line tower, 75 feet west of T-road north to equipment depot, and 700 feet southwest of large two-story frame house painted white. A standard tablet stamped "LR 550 1940" and set horizontally in small concrete bridge.

Reference Mark 1: 6.2 feet S 40° E to north gate post of highway gate.

Reference Mark 2: 86.6 feet N 45° E to 12-inch sycamore tree (painted BM).

ELEVATION: 2156.177 feet or 657.204 meters (T-2)

LR 552 (TVA, 1939; Transylvania County, North Carolina)

Located 7.1 miles northwest of courthouse at Brevard, via U. S. Highway 276 and Avery Creek road, 5.2 miles northwest of Pisgah Forest Post Office on Bennett Gap road, in Pisgah National Forest, 1.4 miles north of intersection of Bennett Gap road with highway, 0.9 miles north of White Pine Camp Ground, 0.4 miles north of where transmission crosses over road first time upstream from mouth of creek, on west end of north headwall of bridge over Avery Creek, 9 feet west of center line of north end of bridge, 2 feet northwest of north end of west guard wall. A standard tablet stamped "LR 552 1940" and set horizontally in concrete bridge.

Reference Mark 1: 43.0 feet N 50° W to 18-inch poplar tree.

Reference Mark 2: 66.5 feet N 10° E to 30-inch poplar tree.

ELEVATION: 2324.611 feet or 708.543 meters (T-2)

LR 553 (TVA, 1939; Transylvania County, North Carolina)

Located 8.0 miles northwest of courthouse in Brevard, via U. S. Highway 276 and Avery Creek road, 6.1 miles northwest of Pisgah Forest, Post Office, on Bennett Gap road, in Pisgah National Forest, 2.3 miles northwest of intersection of Bennett Gap road with highway, 1.8 miles northwest of White Pine Camp Ground, 2.8 miles southeast of Bennett Gap, on northeast side of road, 20 feet from center line of road, 105 feet northeast of center line of road, and 30-inch culvert at barnch, at edge of old road and woods line. A standard tablet stamped "LR 553 1940" and set in concrete post.

Reference Mark 1: 40.0 feet N 35° E to 24-inch red oak tree (painted BM).

Reference Mark 2: 16.5 feet S 35° E to 10-inch sourwood tree.

Reference Mark 3: 10.6 feet S 20° W to 4-inch crooked poplar tree.

ELEVATION: 2507.046 feet or 764.149 meters (T-2)

LR 567 (TVA, 1939; Transylvania County, North Carolina)

Located 14.2 miles west of Mills River via Yellow Gap road, 19.5 miles north of courthouse at Brevard, via U. S. Highway 276, on Yellow Gap road, in Pisgah National Forest, 0.5 miles east of abandoned quarry site, at Grassy Lot Gap, 49 feet north of center line of road, 125 feet west of center line of road, in gap, 20 feet south of telephone line, on west side of Dividing Ridge, and 300 feet west of Grassy Lot Gap sign. A standard tablet stamped "LR 567 1940" and set in concrete post.

Reference Mark 1: 12.6 feet N 55° E to 20-inch forked black gum tree (Painted BM).

Reference Mark 2: 15.5 feet N 35° W to 20-inch maple tree.

Reference Mark 3: 15.1 feet S 30° W to 20-inch maple tree.

ELEVATION: 3357.556 feet or 1023.385 meters (T-2)

LR 568 (TVA, 1939; Transylvania County, North Carolina)

Located 12.9 miles west of Mills River via Yellow Gap road, 20.8 miles north of courthouse at Brevard, via U. S. Highway 276, on Yellow Gap road, in Pisgah National Forest, 3.6 miles southwest of Yellow Gap, 1.3 miles east at Grassy Lot Gap, 20 feet north of center line of Yellow Gap road on right bank of Pilot Cove Creek, 39 feet west of center line of small wood bridge on creek, 34.2 feet northwest of Pilot Cove Creek sign, on right bank of creek. A standard tablet stamped "LR 568 1940" and set in concrete post.

Reference Mark 1: 31.7 feet S 50° E to 12-inch poplar tree (painted PBM).

Reference Mark 2: 40.0 feet S 25° E to 12-inch twin poplar tree (painted PBM).

Reference Mark 3: 26.7 feet N 80° E to southwest corner of bridge.

ELEVATION: 3114.968 feet or 949.444 meters (T-2)

LR 569 (TVA, 1939; Henderson County, North Carolina)

Located 20.3 miles northwest of courthouse at Hendersonville, 11.6 miles west of Mills River via Yellow Gap road, 22.1 miles northeast of courthouse at Brevard, via U. S. Highway 284 and on Yellow Gap road, in Pisgah National Forest, 2.3 miles southwest of Yellow Gap, 0.4 miles southwest of Slate Rock Creek bridge, at mouth of Sunfish Cove, 62 feet southwest of Yellow Gap road, 50 feet southwest of Sunfish Cove sign, 6 feet below road surface, and 39 feet north of south end of rock ledge. A standard tablet stamped "LR 569 1940" and set horizontally and flush in rock outcrop.

Reference Mark 1: 30.4 feet N 35° E to 8-inch spruce pine tree (painted BM).

Reference Mark 2: 32.5 feet Due North to 20-inch maple tree.

Reference Mark 3: 42.4 feet S 40° W to 14-inch water birch tree (slope chain).

ELEVATION: 2953.154 feet or 900.123 meters (T-2)

LR 570 (TVA, 1939; Henderson County, North Carolina)

Located 10.5 miles west of Mills River via Yellow Gap road, 19.1 miles northwest of courthouse at Hendersonville, 23.2 miles northeast of courthouse at Brevard, via U. S. Highway 276 and on Yellow Gap road, in Pisgah National Forest, 9.8 miles west of State Highway 191, 1.2 miles southwest of Yellow Gap, 19 feet north of center line of Yellow Gap road, approximately 0.2 miles east of mouth of Yellow Gap Creek, 0.1 miles east of sharp curve to west on north side of Yellow Gap road, in small hollow. A standard tablet stamped "LR 570 1940" and set horizontally in rock outcrop.

Reference Mark 1: 20.0 feet N 60° W to 14-inch white oak tree (slope chain).

Reference Mark 2: 44.6 feet S 20° E to 8-inch hickory across road.

Reference Mark 3: 6.0 feet S 35° E to north end of 18-inch metal culvert.

ELEVATION: 2827.681 feet or 861.879 meters (T-2)

LR 571 (TVA, 1939; Henderson County, North Carolina)

Located 17.9 miles northwest of courthouse at Hendersonville, at Yellow Gap, 9.3 miles west of Mills River via Yellow Gap road, 24.4 miles northeast of courthouse at Brevard, via U. S. Highway 276 and on Yellow Gap road, in Pisgah National Forest, 8.6 miles west of State Highway 191, on south side of Yellow Gap road, 30 feet from center line of road, southwest side of ridge, 60 feet from center line of road in Yellow Gap, just west of 8-foot road cut in gap, under 4 wire telephone line, and 17 feet south of Yellow Gap sign. A standard tablet stamped "LR 571 1940" and set in concrete post.

Reference Mark 1: 4.5 feet Due North to telephone pole (painted FBM).

Reference Mark 2: 59.0 feet N 35° W to 14-inch black gum tree across road.

Reference Mark 3: 24.2 feet S 65° W to 14-inch Spanish oak.
ELEVATION: 3202.192 feet or 976.030 meters (T-2)

LR 572 (TVA, 1939; Henderson County, North Carolina)

Located 1.2 miles northeast of Yellow Gap, 8.1 miles west of Mills River via Yellow Gap road, 16.7 miles northwest of courthouse at Hendersonville, via Highway 191 and on Yellow Gap road, in Pisgah National Forest, 7.4 miles west of North Carolina Highway 191, 2.4 miles southwest of North Mills River Camp Ground, 0.3 miles east of hairpin curve where road crosses over Rocky Fork Creek, 29 feet west of Yellow Gap road, inside of sharp curve, approximately 6 feet above road surface, and 62 feet southeast of south end of 18-inch metal culvert. A standard tablet stamped "LR 572 1940" and set in concrete post.

Reference Mark 1: 17.0 feet Due East to 14-inch Spanish oak tree (painted BM).

Reference Mark 2: 12.5 feet N 50° E to 4-inch poplar tree.

Reference Mark 3: 12.0 feet N 30° W to 6-inch pine tree (painted BM).

ELEVATION: 2809.893 feet or 856.457 meters (T-2)

LR 573 (TVA, 1939; Henderson County, North Carolina)

Located 2.3 miles northeast of Yellow Gap, 7.0 miles west of Mills River by way of Yellow Gap road, 15.6 miles northwest of courthouse at Hendersonville, via Highway 191 and on Yellow Gap road, in Pisgah National Forest, 6.3 miles west of State Highway 191, 1.3 miles west of North Mills River Camp Ground, 300 feet east of sharp curve to west, 26.5 feet north of center line of road, 30.5 feet east of north end of 24-inch metal culvert, 70.8 feet northeast of telephone pole with guy wire to north just west of small pit dug in west slope of ridge. A standard tablet stamped "LR 573 1940" and set in concrete post.

Reference Mark 1: 19.3 feet Due West to 14-inch hickory tree.

Reference Mark 2: 7.6 feet S 15° W to 10-inch white oak tree (painted BM).

Reference Mark 3: 9.5 feet N 10° W to 8-inch white oak tree.

ELEVATION: 2445.707 feet or 745.453 meters (T-2)

LR 600 (TVA, 1941; Henderson County, North Carolina)

Located about 10 miles northwest of Hendersonville. To reach from intersection of U. S. Highway 25 and State Highway 191 at Hendersonville, go 8.1 miles northwest on State Highway 191 to Mills River road, turn left on Mills River road and go 4.0 miles to T-intersection, turn right and go 0.6 miles to Y-intersection, turn right and go 0.1 miles to two-story frame farm house, leave truck and walk 1500 feet southeast to ridge top. Point is on center line of ridge. A 1- by 1-inch angle iron stamped "TVA LR 600".

Reference Mark 1: 12.0 feet N 21°30' E to nail and washer in 24-inch oak.

Reference Mark 2: 15.2 feet S 16°30' W to nail and washer in 12-inch oak.

Reference Mark 3: 15.4 feet S 79° E to nail and washer in 15-inch dead chestnut.

GRID POSITION (N. C.): X = 919,294.6; Y = 622,286.2 (T-4)

ELEVATION: 2507 feet (T-5)

LR 605 (TVA, 1941; Buncombe County, North Carolina)

Located about 14 miles northwest of Hendersonville. To reach from the intersection of U. S. Highway 25 and State Highway 191, go 11.0 miles on State Highway 191 to Avery Creek road, turn left on Avery Creek road and go 1.0 miles to T-intersection, turn right and go 1.3 miles to T-intersection, turn right and go 0.1 miles. Station is at intersection of woods roads. A 1- by 1-inch angle iron stamped "TVA LR 605".

Reference Mark 1: 15.9 feet N 65° W to nail and washer in 3-inch oak.

Reference Mark 2: 16.3 feet N 70° E to nail and washer in 3-inch oak.

Reference Mark 3: 28.7 feet N 30° E to nail and washer in 8-inch pine.

GRID POSITION (N. C.): X = 925,914.3; Y = 644,812.6 (T-4)

ELEVATION: 2333 feet (T-5)

LR 606 (TVA, 1941; Henderson County, North Carolina)

Located about 14 miles northwest of Hendersonville. To reach from the intersection of U. S. Highway 25 and State Highway 191, go 15.6 miles on State Highway 191, turn left and go 2.4 miles to Y-intersection, go right through Forest Service gate 0.1 miles to Y-intersection, go left 0.9 miles, park truck and walk 1000 feet east to top of ridge. Station is on center line of ridge. A 1- by 1-inch angle iron stamped "TVA LR 606".

Reference Mark 1: 3.2 feet N 10° W to nail and washer in 12-inch pine.

Reference Mark 2: 12.7 feet S 55° W to nail and washer in 15-inch pine.

Reference Mark 3: 8.1 feet S 10° W to nail and washer in 4-inch oak.

GRID POSITION (N. C.): X = 919,350.0; Y = 654,965.7 (T-4)

ELEVATION: 2604 feet (T-5)

LR 608 (TVA, 1941; Henderson County, North Carolina)

Located about 13-1/2 miles northwest of Hendersonville. To reach from intersection of U. S. Highway 25 and State Highway 191, go 15.6 miles on Highway 191, turn left and go 0.3 miles to Y-intersection, turn left and go 1.8 miles to Y-intersection and turn sharply to left, go 0.3 miles to Glenn Bald. Station is on highest point on knob. A Forest Service Monument 21 stamped "TVA LR 608".

Reference Mark 1: 12.92 feet N 74° W to nail and washer in fence post.

Reference Mark 2: 9.58 feet S 57° W to nail and washer in fence post.

Reference Mark 3: 13.20 feet S 07° W to nail and washer in fence post.

GRID POSITION (N. C.): X = 928,504.7; Y = 651,578.6 (T-4)

ELEVATION: 2703 feet (T-5)

LR 609 (TVA, 1941; Henderson County, North Carolina)

Located about 13-1/2 miles northwest of Hendersonville. To reach from intersection of U. S. Highway 25 and State Highway 191 at Hendersonville, go 15.6 miles on Highway 191, turn left and go 0.3 miles to Y-intersection, turn left through Forest Service gate and go 2.7 miles to Lance Mountain. Station is about 300 feet west of this point on knob. A 1- by 1-inch angle iron stamped "TVA LR 609".

Reference Mark 1: 23.1 feet West to nail and washer in 8-inch poplar.

Reference Mark 2: 12.1 feet N 78° E to nail and washer in 8-inch hickory.

Reference Mark 3: 33.37 feet N 32° W to Forest Service Monument No. 33.

GRID POSITION (N. C.): X = 927,122.4; Y = 647,549.4 (T-4)

ELEVATION: 3002 feet (T-5)

LR 610 (TVA, 1941; Buncombe County, North Carolina)

Located about 11.0 miles northwest of Hendersonville. To reach from intersection of U. S. Highway 25 and State Highway 191 at Hendersonville, go 11.0 miles on State Highway 191 to Avery Creek Church, turn left on Avery Creek road and go 1.4 miles to T-intersection, turn left and go 1.3 miles to Sunnyside Orchard. Station is in orchard at side of road, midway between two barns, 26 feet from intersection of field roads. A 1- by 1-inch angle iron.

Reference Mark 1: 26.5 feet N 10° E to 6-inch apple (nail and washer).

Reference Mark 2: 21.2 feet East to 2-inch apple tree.

Reference Mark 3: 33.2 feet S 22° E to 10-inch apple tree.

GRID POSITION (N. C.): X = 928,418.9; Y = 634,610.1 (T-4)

ELEVATION: 2286 feet (T-5)

LR 611 (TVA, 1941; Buncombe County, North Carolina)

Located about 15-1/2 miles northwest of Hendersonville. To reach from intersection of U. S. Highway 25 and State Highway 191 at Hendersonville, go 15.6 miles on State Highway 191, turn left on dirt road and go 4.1 miles to Y-intersection, turn right and go 0.9 miles to end of road, leave truck and walk about 3500 feet to top of Hickory Knob. Station is on highest point of knob. A 1- by 1-inch angle iron stamped "TVA LR 611".

Reference Mark 1: 3.4 feet N 35° W to Forest Service Monument 112.

Reference Mark 2: 3.0 feet N 62° E to nail and washer in 6-inch dead chestnut.

Reference Mark 3: 2.2 feet S 37° E to nail and washer in 8-inch dead chestnut.

GRID POSITION (N. C.): X = 910,686.3; Y = 653,254.6 (T-4)

ELEVATION: 3710 feet (T-5)

LR 613 (TVA, 1941; Henderson County, North Carolina)

Located 11-1/2 miles northwest of Hendersonville. To reach from the intersection of U. S. Highway 25 and State Highway 191 at Hendersonville, go 8.2 miles on State Highway 191 to Mills River road, turn left on Mills River road and go 4.1 miles to T-intersection, turn right and go 0.5 miles to Y-intersection, turn left and go 0.4 miles to Y-intersection, turn left through gate and go 1.2 miles to intersection of branches, leave truck and walk 3000 feet east to top of ridge. Station is on center line of ridge on highest point at end of spur. A 1- by 1-inch angle iron.

Reference Mark 1: 4.20 feet West to 3-inch sourwood.

Reference Mark 2: 8.3 feet N 45° W to 10-inch oak.

Reference Mark 3: 8.1 feet N 80° E to chestnut stump.

GRID POSITION (N. C.): X = 919,911.1; Y = 630,760.4 (T-4)

ELEVATION: 2955 feet (T-5)

LR 637 (TVA, 1941; Buncombe County, North Carolina)

Located about 10 miles north of Hendersonville. To reach from intersection of U. S. Highway 25 and State Highway 191 north of Hendersonville, drive north on U. S. Highway 10.6 miles, turn right on U. S. Highway 25 R and go 0.2 miles, turn right and go 0.5 miles, turn left and go 0.2 miles, turn right and go 300 feet to house. Point is 3.9 feet from southeast corner of well. A 1- by 1-inch angle iron stamped "LR 637 1941".

Reference Mark 1: 64.90 feet S 15° E to nail and washer in north-east corner of outhouse.

Reference Mark 2: 3.9 feet N 50° W to southeast corner pump platform.

Reference Mark 3: 8.34 feet West to southwest corner of pump.

GRID POSITION (N. C.): X = 957,159.9; Y = 640,414.1 (T-4)

ELEVATION: 2252 feet (T-5)

LR 39 (TVA, 1940; Henderson County, North Carolina)

Located about 5 miles west of Hendersonville, on top of Jumpoff Mountain, on southeast edge of old hotel site. To reach from Hendersonville, take Fifth Avenue west for 5 miles. Station is in line with center of remaining 24-inch concrete foundation of old hotel, and is 17 feet N 52° E from north-east end of foundation and on highest point of site, 760 feet N 43°30' W from tablet stamped "Fleetwood 1934". A 1- by 1-inch angle iron.

GRID POSITION (N. C.): X = 949,245.7; Y = 587,136.8 (T-4)

ELEVATION: 3132 feet (T-5)

LR 40 (TVA, 1940; Henderson County, North Carolina)

Located about 11 miles northeast of Brevard. To reach from the square at Brevard, go north on U. S. Highway 64 for 12.8 miles (0.1 miles past bridge), turn right on river road for 0.6 miles, turn left for 0.1 miles to road fork, turn sharp left 0.05 miles to P. P. Darlings house, turn right for 0.5 miles to barn, turn left around barn for 0.5 miles to upper end of upper pasture, Station is about 150 feet southeast of road in pasture, 60 feet southwest of northeast edge of pasture. A 1- by 1-inch angle iron, set 0.6 feet above ground.

Reference Mark 1: 32.9 feet S 14° E to 2-inch locust.

Reference Mark 2: 45.55 feet N 09° E to 6-inch poplar.

Reference Mark 3: 23.75 feet N 78° E to 5-inch locust.

GRID POSITION (N. C.): X = 937,425.0; Y = 592,192.5 (T-4)

ELEVATION: 2600 feet (T-5)

LRH 42 (TVA, 1940; Transylvania County, North Carolina)

Located 5.6 miles northeast of Brevard. To reach from square at Brevard, go north on U.S. Highway 64 6.6 miles (Penrose Post Office), turn right 1.5 miles to home of Vergil McCrary, about 140 feet southwest of his home at intersection of field road, 12.7 feet west center line main road, 6.0 feet north center line field road, on C. B. Shuford's property. A 1- by 1-inch angle iron set 0.2 feet above ground.

Reference Mark 1: 29.7 feet N 50° E to south end of rock wall.

Reference Mark 2: 27.0 feet N 09° W to 10-inch apple tree.

Reference Mark 3: 31.7 feet S 77° E to tree on hedge row.

Note: Searched for but not recovered, June, 1945.

GRID POSITION (N. C.): X = 915,534.6; Y = 566,477.1 (T-4)

ELEVATION: 2133 feet (T-5)

LRH 43 (TVA, 1940; Transylvania County, North Carolina)

Located on or near the Transylvania-Henderson County line, 8 miles northeast of Brevard. To reach from the square at Brevard, go north on U. S. Highway 64 9 miles to Blantyre, turn left for 0.4 miles to road fork, bear right for 0.45 miles to Rhode's barn, turn left on field road for 0.1 miles to round patch of woods. Station is on east edge of road on east edge of woods. A 1- by 1-inch angle iron, set 0.6 feet above ground.

Reference Mark 1: 29.4 feet N 58° W to 8-inch twin oak.

Reference Mark 2: 17.9 feet S 01° W to 20-inch oak.

Reference Mark 3: 28.0 feet N 88° W to 12-inch pine.

GRID POSITION (N. C.): X = 918,308.8; Y = 587,514.0 (T-4)

ELEVATION: 2171 feet (T-5)

LRH 45 (TVA, 1940; Henderson County, North Carolina)

Located 5 miles northwest of Hendersonville. To reach from square at Brevard, go north 1.1 miles on U. S. Highway 64, turn left on State Highway 280 for 13.3 miles, turn right follow old paved highway for 3 miles, turn left at Oak Dale Cemetery for 0.1 miles, turn right 0.1 miles to home of T. H. Bowman. Station is 1 foot south of base of 20-inch oak and 17 feet south of southwest corner of porch. A 1- by 1-inch angle iron set 0.2 feet above ground.

GRID POSITION (N. C.): X = 950,272.0; Y = 608,376.0 (T-4)

ELEVATION: 2158 feet (T-5)

LRH 46 (TVA, 1940; Henderson County, North Carolina)

Located 4.6 miles southeast of Hendersonville. To reach from courthouse in Hendersonville, drive south on South Main Street 0.2 miles to South Caswell Street, turn right for 0.3 miles to T-road, keep straight ahead following paved road for 4.8 miles to T-road left. Station is 185 feet southeast of intersection and on southwest bank of road, 6 feet above road bed, 19.5 feet southwest of center line of road, 30 feet southeast of southeast corner of pine grove. A 1- by 1-inch angle iron, set 0.4 feet above ground.

Reference Mark 1: 20.0 feet N 27° W to fence corner.

Reference Mark 2: 24.9 feet N 57° W to fence post.

GRID POSITION (N. C.): X = 953,964.6; Y = 566,713.3 (T-4)

ELEVATION: 2166 feet (T-5)

M 39 (USC&GS, 1932; Buncombe County, North Carolina)

Located 2.1 miles north along the Southern Railway from Fletcher, about 0.7 miles south of the station at Arden, 0.4 miles north of milepost 10, about 2-1/2 rails south of a switch point east of the track, at automatic signal W 9.3, and in the top of the northwest corner of the concrete base. A standard tablet stamped "2202.706 M 39 1932".

ELEVATION: 2202.302 feet or 671.263 meters (C-2)

M 56 (USC&GS, 1934; Transylvania County, North Carolina)

Located 3 miles southwest along the Southern Railway from Etowah, 0.5 miles south of the station at Blantyre, about 90 yards south of milepost 13, at a road crossing, about 6 yards north of the center line of the road, and about 5 yards west of the center line of the track. A standard tablet stamped "2080.416 M 56 1934" and set in concrete monument.

ELEVATION: 2079.986 feet or 633.981 meters (C-2)

N 39 RESET (USC&GS, 1932, RESET N.C. Hwy. Dept., 1941; Henderson County, N. C.)

Located 3/4 mile south of the Southern Railway station at Fletcher, on Highway 25, 50 yards northwest of milepost 12, 60 feet west of the track, at the highway bridge at Cane Creek, and in the top of the north end of the east parapet. A standard tablet stamped "N 39 RESET 1941".

ELEVATION: 2074.76 feet (T-3)

N 55 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 158.8 French Broad River, left side of river, about 1.5 miles north along State Highway 191 from West Haven, on north corner of east abutment of concrete culvert over Orton Branch. A chiseled square.

ELEVATION: 2020.71 feet (T-3)

N 56 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 158.9 French Broad River, right bank of river, on bank 21 feet north of 15-inch blazed sycamore and 11 feet landward from center line of road. Ledge is opposite and 200 feet upstream from white camp cabin. A triangle chiseled in corner of rock ledge.

ELEVATION: 2012.62 feet (T-3)

N 56 1934 (USC&GS, 1934; Henderson County, North Carolina)

Located 1 mile southwest along the Southern Railway from Etowah, 4 yards east of milepost 11, and about 6 yards north of the center line of the track. A standard tablet stamped "2111.669 N 56 1934" and set in concrete monument projecting about 3 inches above ground.

ELEVATION: 2111.233 feet or 643.505 meters (C-2)

N 57 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 159.3 French Broad River, right bank of river, 12 feet riverward from center line of road, 6 feet downstream from blazed poplar and at "S" curve in road. A chiseled triangle on large boulder.

ELEVATION: 2018.40 feet (T-3)

N 58 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 159.8 French Broad River, right bank of river, in river side of 12-inch beech, 20 feet from water's edge and 20 feet west of center line of road. A nail and washer.

ELEVATION: 2021.40 feet (T-3)

N 59 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 160.2 French Broad River, right side of river, in land side of 10-inch cherry tree, 10 feet riverward from center line of road, 400 feet from bank and 6 feet east of fence. Nail and washer.

ELEVATION: 2023.60 feet (T-3)

N 60 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 160.6 French Broad River, right side of river, in right end upstream bridge rail of concrete arch bridge over French Broad know as Long Shoals Bridge. A chiseled square.

ELEVATION: 2040.12 feet (T-3)

N 61 (TVA, 1937; Buncombe County, North Carolina)

Located about 1-1/2 miles west along State Highway 280 from Skyland, 10 feet south of center line of highway, in walk to one-story frame house, 0.5 miles east of Long Shoals Bridge. A chiseled square in concrete step.

ELEVATION: 2178.66 feet (T-3)

N 62 (TVA, 1937; Buncombe County, North Carolina)

Located about 1-1/4 miles west along State Highway 280 from Skyland, 15 feet south of State Highway 280 and Valley Springs road (junction), about 1000 feet southwest of Valley Springs School, in base of 10-inch pine stump. A nail and washer.

ELEVATION: 2213.43 feet (T-3)

N 63 (TVA, 1937; Buncombe County, North Carolina)

Located 0.5 miles southeast of junction of State Highway 280 and Valley Springs road, 100 feet northwest of road intersection, in base of 12-inch apple tree, 6 feet west of fence line. Nail and washer.

ELEVATION: 2121.36 feet (T-3)

N 64 (TVA, 1937; Buncombe County, North Carolina)

Located about 1 mile southeast of junction of State Highway 280 and Valley Springs road, 10 feet north of Valley Springs road, 1 foot north of fence line 200 feet east of cabin on north side of road, and about 800 feet west of cross-road. A nail.

ELEVATION: 2221.54 feet (T-3)

N 65 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 162.4 French Broad River, right side of river, in southeast side of 20-inch white oak in northeast angle of T-intersection in front of two story yellow house, about 0.7 miles west of U. S. Highway 25, about 2.5 miles east of river bank. Nail and washer.

Note: Searched for but not recovered, January, 1941.

ELEVATION: 2258.32 feet (T-3)

N 66 (TVA, 1937; Buncombe County, North Carolina)

Located about 1200 feet west of intersection of U. S. Highway 25 and Valley Springs road, near Arden, on north side of Valley Springs road, in root of 24-inch oak, about 1.7 miles due east of river bank. A nail and washer.

ELEVATION: 2241.46 feet (T-3)

N 67 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 161.0 French Broad River, left side of river, in root of 18-inch oak on southwest side of gravel road on bank about 0.5 miles upstream from Long Shoals Bridge. Nail and washer.

ELEVATION: 2033.81 feet (T-3)

N 68 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 161.5 French Broad River, left side of river, in root of 24-inch twin birch stump, 400 feet from river, and 60 feet east of right bank of small branch about 1 mile above Long Shoals Bridge. A nail and washer.

ELEVATION: 2030.44 feet (T-3)

N 69 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 161.9 French Broad River, left bank of river, in root of 8-inch birch, 60 feet from water's edge, 100 feet south of edge of field and on right bank of branch. Nail and washer.

ELEVATION: 2034.50 feet (T-3)

N 70 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 162.8 French Broad River, left bank of river, in river side of 12-inch birch, 10 feet riverward from center line of road, 75 feet from water's edge, and about 600 feet downstream from Glenn Bridge. A nail and washer.

ELEVATION: 2040.54 feet (T-3)

N 71 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 163.2 French Broad River, right side of river, in root on east side of 20-inch apple tree in field, 400 feet from right bank and 1500 feet above Glenn Bridge. Flood mark 21 is on same tree. A nail and washer.

ELEVATION: 2047.25 feet (T-3)

N 72 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 163.4 French Broad River, left side of river, in base of 10-inch ironwood at top of bank, 500 feet upstream from ditch and on river side of road, on Dumas farm. A nail and washer.

ELEVATION: 2043.89 feet (T-3)

N 73 (TVA, 1937; Buncombe County, North Carolina)

Located at mile 163.9 French Broad River, left side, in west side of 20-inch birch, 400 feet from water's edge, on left bank of branch just above confluence with Line Creek. Branch is lined with trees and separates two fields. A nail and washer.

ELEVATION: 2046.13 feet (T-3)

N 74 (TVA, 1937; Henderson County, North Carolina)

Located at mile 164.5 French Broad River, left bank, in crook of 10-inch birch, 2 feet from water's edge, 4 feet downstream from ditch draining field, about 1 mile below Fanning Bridge. A nail and washer.

ELEVATION: 2040.70 feet (T-3)

N 75 (TVA, 1937; Henderson County, North Carolina)

Located at mile 165.3 French Broad River, on downstream side of bent at left bank on Fanning Bridge. A chiseled square.

ELEVATION: 2052.151 feet or 625.497 meters (T-2)

N 76 (TVA, 1937; Henderson County, North Carolina)

Located at mile 165.7 French Broad River, left side, in west side of 8-inch birch on right bank of McDowell Creek, 800 feet above its mouth and 6 feet downstream from mouth of drainage ditch. Nail and washer.
ELEVATION: 2044.82 feet (T-3)

N 77 (TVA, 1937; Henderson County, North Carolina)

Located at mile 166.2 French Broad River, left bank of river, in root of 18-inch poplar, 10 feet from water's edge, on left bank at upstream end of cultivated field, 1 mile above Fanning Bridge. A nail and washer.
ELEVATION: 2049.11 feet (T-3)

N 78 (TVA, 1937; Henderson County, North Carolina)

Located at mile 167.0 French Broad River, left side, in root at west side of 24-inch willow at east edge of road parallel to river, and 1500 feet northwest of Butler Bridge, directly across road from spring house, 500 feet north of crossroads between barn and shed. A nail and washer.
ELEVATION: 2054.69 feet (T-3)

N 79 (TVA, 1937; Henderson County, North Carolina)

Located at mile 168.0 French Broad River, left side of river, in root of 30-inch pine tree, 100 feet north of center line of road from Butler Bridge to State Highways 191 and 280, and 3/4 mile from bridge. A nail and washer.
ELEVATION: 2070.89 feet (T-3)

N 80 (TVA, 1937; Henderson County, North Carolina)

Located on road from State Highways 191 and 280, to Butler Bridge, on old Evans Farm, in root at south side of 20-inch hickory, on same tree as is Flood Mark 18, 200 feet northeast of road, 30 feet southwest of 30-inch white oak, and 60 feet southwest of old barn. A nail and washer.
ELEVATION: 2069.88 feet (T-3)

N 81 (TVA, 1937; Henderson County, North Carolina)

Located on north side of road from State Highway 191 and 280 to Butler Bridge, and 0.5 miles east of highways, in root of 18-inch white oak, opposite two story white house. A nail and washer.
ELEVATION: 2096.63 feet (T-3)

N 82 (TVA, 1937; Henderson County, North Carolina)

Located in northeast corner of east headwall of concrete culvert on State Highways 191 and 280, about 0.5 miles north of Mills River. A chiseled square.
ELEVATION: 2086.695 feet or 636.026 meters (T-2)

N 83 (TVA, 1937; Henderson County, North Carolina)

Located on right bank of Mills River, about 1/2 mile downstream from State Highways 191 and 280, on 24-inch walnut, 90 feet from river, at end of fence line, and 100 feet east of ditch through field. A nail.
ELEVATION: 2067.54 feet (T-3)

N 84 (TVA, 1937; Henderson County, North Carolina)

Located on right bank of Mills River, about 1 mile downstream from Mills River Bridge, in root at east side of 15-inch leaning willow, 1000 feet north of white frame house. A nail.
ELEVATION: 2059.16 feet (T-3)

N 85 (TVA, 1937; Henderson County, North Carolina)

Located on right bank of Mills River, 1000 feet downstream from wood bridge, in root at west side of 24-inch birch stump, 36 feet east of north-south fence line. A nail and washer.
ELEVATION: 2059.41 feet (T-3)

N 86 (TVA, 1937; Henderson County, North Carolina)

Located at mile 169.3 French Broad River, on left bank of river, 600 feet upstream from mouth of Mills River, in 6-inch crab apple stump on top of bank, 10 feet upstream from 30-inch birch, blazed on upstream side, which is leaning over the water. A nail and washer.
ELEVATION: 2053.38 feet (T-3)

N 87 (TVA, 1937; Henderson County, North Carolina)

Located at mile 169.3 French Broad River, right side, in east root of 12-inch white oak, 2500 feet east of bank, on south side of wagon road, and 50 feet north of branch. A nail and washer.
ELEVATION: 2078.76 feet (T-3)

N 88 (TVA, 1937; Henderson County, North Carolina)

Located at mile 169.3 French Broad River, right side, in root of 28-inch white oak, 500 feet west of T-intersection on Rugby road, 33 feet east of two-story red house, and 24 feet south of road to house. A nail and washer.
ELEVATION: 2126.63 feet (T-3)

N 89 (TVA, 1937; Henderson County, North Carolina)

Located at mile 168.8 French Broad River, right side of river, at north-east end of small wood bridge on road from U. S. Highway 25 to Rugby road, and 600 feet east of tin roofed barn near road. Top of bolt in guard rail.
ELEVATION: 2066.80 feet (T-3)

N 91 (TVA, 1937; Henderson County, North Carolina)

Located at mile 169.2 French Broad River, right side, in west root of apple tree on east side of dirt road, 100 feet northeast of wood bridge over Mills River, 1/2 mile above mouth. A nail and washer.
ELEVATION: 2056.73 feet (T-3)

N 92 (TVA, 1937; Henderson County, North Carolina)

Located at mile 170.5 French Broad River, left side, in southeast root of 16-inch birch, 30 feet from bank, 20 feet east of field, and about 2000 feet downstream from Kings Bridge. A nail and washer.
ELEVATION: 2058.45 feet (T-3)

N 93 (TVA, 1937; Henderson County, North Carolina)

Located at mile 171.7 French Broad River, left side of river, in east root of 12-inch hickory, 600 feet west of left bank, 60 feet southeast of 8-inch persimmon tree, and in fence corner. A nail and washer.
ELEVATION: 2057.32 feet (T-3)

N 94 (TVA, 1937; Henderson County, North Carolina)

Located about 3/4 mile below Horse Shoe, at mile 172.4 French Broad River, left side, in north root of 30-inch maple, 400 feet west of river, on ditch

and fence line. Nail and washer.

ELEVATION: 2057.14 feet (T-3)

N 95 (TVA, 1937; Henderson County, North Carolina)

Located about 0.3 miles north of Johnson Bridge, at mile 173.0 French Broad River, left side of river, in top of 10-inch stump, 15 feet west of center line of gravel road, 150 feet south of mailbox at west of road, 600 feet west of river. A nail.

Note: Searched for but not recovered, July, 1940.

ELEVATION: 2064.63 feet (T-3)

N 96 (TVA, 1937; Henderson County, North Carolina)

Located at mile 174.2 French Broad River, right side, 20 feet northwest of tracks of Southern Railway, 500 feet north of grade crossing at Cannon home on Horseshoe Farm, in root of 8-inch apple tree. Nail and washer.

ELEVATION: 2085.45 feet (T-3)

N 97 (TVA, 1937; Henderson County, North Carolina)

Located at mile 177.7 French Broad River, left bank, 0.5 miles above McLean Bridge, on land side of 24-inch birch on bank. Nail and washer.

ELEVATION: 2066.23 feet (T-3)

N 98 (TVA, 1937; Henderson County, North Carolina)

Located at mile 178.2 French Broad River, right bank, 60 feet riverward from gravel road, about 1 mile above McLean Bridge, in stump of 8-inch ironwood at base of two 12-inch ironwoods. Nail and washer.

ELEVATION: 2070.36 feet (T-3)

N 100 (TVA, 1937; Henderson County, North Carolina)

Located about 0.6 miles below mouth of Big Willow Creek, at mile 179.2 French Broad River, right bank, in east root of 36-inch beech on west edge of road along bank at point where road turns southeast and away from river. A nail and washer.

ELEVATION: 2069.99 feet (T-3)

N 101 (TVA, 1937; Henderson County, North Carolina)

Located at mile 179.7 French Broad River, right side, in southeast root of 24-inch forked oak on right bank, 25 feet back of edge of Bowmans Bluff, and 4 feet south of fence line at gate. Nail and washer.

ELEVATION: 2101.39 feet (T-3)

N 102 (TVA, 1937; Henderson County, North Carolina)

Located at mile 180.3 French Broad River, right side of river, in east side of 18-inch pine, 50 feet landward from Etowah road, 2000 feet upstream from Big Willow Creek, on south side of driveway. A nail and washer.

ELEVATION: 2072.94 feet (T-3)

N 103 (TVA, 1937; Henderson County, North Carolina)

Located at mile 180.6 French Broad River, right bank, 5 feet riverward from Etowah road and 0.2 miles from bridge over French Broad, on road to Etowah, in crotch of 12-inch birch tree. A nail and washer.

ELEVATION: 2071.77 feet (T-3)

N 104 (TVA, 1937; Henderson County, North Carolina)

Located at mile 180.9 French Broad River, right side, in west root of 15-inch walnut tree, 100 feet northeast of home of Marion Brown, about 1000 feet from mouth of Little Willow Creek. Nail and washer.

ELEVATION: 2080.90 feet (T-3)

N 105 (TVA, 1937; Henderson County, North Carolina)

Located at mile 181.5 French Broad River, right side, on left abutment of bridge over Little Willow Creek on Blantyre road. A chiseled square.

ELEVATION: 2077.02 feet (T-3)

N 106 (TVA, 1937; Henderson County, North Carolina)

Located at mile 182.1 French Broad River, right bank, on south side of Blantyre road, 1000 feet west of Pleasant Grove Church, 400 feet north of log house in field, in south root of 26-inch apple tree, 50 feet east of culvert. Nail and washer.

ELEVATION: 2075.33 feet (T-3)

N 108 (TVA, 1937; Henderson County, North Carolina)

Located at mile 183.0 French Broad River, right side, on second step from bottom of tier leading from Blantyre road to yard of two-story white frame house. Four 24-inch white pine trees are in front of house. A chiseled square.

ELEVATION: 2088.63 feet (T-3)

N 141 (USC&GS, 1935; Henderson County, North Carolina)

Located 23.0 miles southwest of courthouse in Asheville, via U. S. Highways 19, 23, and Pisgah Highway, 12.1 miles southwest of U. S. Post Office at Candler, on Pisgah Highway, in Pisgah National Forest, 5.0 miles south of Stony Fork Camp Ground, 0.6 miles southwest of Cutthroat Gap, on southeast side of Pisgah Mountain Highway, 500 feet west of clearing that lies on north side of highway, and across highway from sand pit. A standard tablet set in concrete post.

Reference Mark 1: 16.0 feet N 70° E to 6-inch ash tree (with painted cross).

Reference Mark 2: 10.0 feet S 50° W to 6-inch ash tree center one of group of three.

Reference Mark 3: 22.0 feet N 20° W to center line of Pisgah Mountain Highway.

ELEVATION: 4462.813 feet or 1360.268 meters (T-2)

P 39 (USC&GS, 1932; Henderson County, North Carolina)

Located at Naples, on Southern Railway, 150 feet south of road crossing, about 115 feet south of station sign, on west side of track, at cantilever signal W 143, in top of northwest corner of concrete base. Standard tablet stamped "2080.888 P 39 1932".

ELEVATION: 2080.462 feet or 634.126 meters (C-2)

P 56 (USC&GS, 1934; Henderson County, North Carolina)

Located 1 mile northeast along Southern Railway from Etowah, 200 yards southwest of milepost 9, about 7 yards east of center line of private road crossing, and about 6 yards north of the center line of the track. A standard tablet stamped "P 56 1934" and set in concrete monument projecting about 3 inches above ground.

ELEVATION: 2101.991 feet or 640.688 meters (C-2)

P 141 (USC&GS, 1935; Henderson County, North Carolina)

Located 23.9 miles southwest courthouse in Asheville, via U. S. Highways 19, 23 and Pisgah Highway, 13.0 miles southwest post office in Candler, on Pisgah Mountain Highway, in Pisgah National Forest, 1.5 miles southwest Cutthroat Gap, south slope of Little Pisgah River, 0.1 miles west sharp curve on Little Pisgah Ridge, 700 feet east Henderson-Transylvania county line, north side Pisgah Mountain Highway, 22 feet north center line, in small opening in north road bank. Standard tablet set in concrete post.

Reference Mark 1: 14.4 feet N 20° E to 12-inch white oak tree (slope chain)

Reference Mark 2: 64.3 feet N 65° W to north end 18-inch metal culvert at east end of ledge.

Reference Mark 3: 48.0 feet Due South to 12-inch red oak across highway.

ELEVATION: 4758.163 feet or 1450.291 meters (T-2)

PINE (USGS, 1934; Henderson-Buncombe Counties, North Carolina)

Located 12 miles (airline) northwest Hendersonville, 11 miles south by west of Asheville, 3 miles southwest of Avery. To reach from West Asheville, take Highway 191 south 9.0 miles to Avery Creek road, thence right 5.5 miles to site of old sawmill at end of road, go by trail 1/2 mile to divide, 1/4 mile east along divide to station on highest point of knob. Bronze tablet stamped "PINE 1934" set in concrete in top of rock set in place.

GEODETIC POSITION: Lat. = 35°26'36.304"; Long. = 82°38'16.653" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pisgah	79°42'25.1"	259°38'16.8"	4.040714	6.8
Spivey	175 52 31.3	355 52 02.2	4.243485	10.9
Grassy	201 17 45.1	21 18 11.5	3.500593	2.0
Skyland	248 16 07.6	68 20 36.1	4.098850	7.8

PINK (USGS, 1934; Transylvania County, North Carolina)

Located 6.5 miles (airline) north of Brevard, 3.5 miles southeast of Pink Beds. To reach from Brevard, take U.S. Highway 276 north 1.0 miles, turn left on State Highway 280 (gravel road) 4.7 miles (1.0 miles east of Pisgah arch), turn left (keep left) up Turkey Creek road 3.7 miles, walk following skid trail right to highest point on Black Mountain and station. Bronze tablet stamped "PINK 1934" and cemented in rock.

Reference Mark 1: 16.0 feet S 15° W to drill hole in rock.

Reference Mark 2: 15.5 feet N 70° W to drill hole in rock.

Reference Mark 3: 10.1 feet N 37° E to drill hole in rock.

GEODETIC POSITION: Lat. = 35°19'40.064"; Long. = 82°44'03.019" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Cedar	37°52'56.3"	217°50'36.6"	3.997897	6.2
Pisgah	169 12 53.9	349 12 06.4	4.043529	6.9

GRID POSITION (N. C.): X = 886,466.8; Y = 595,157.4 (G-3)

ELEVATION: 4286 feet (T-5)

Q 56 (USC&GS, 1934; Henderson County, North Carolina)

Located at Horse Shoe, 24 yards east of the Southern Railway station, about 80 yards west of milepost 7, about 5 yards west of center line of cross-road, at northeast corner of garden plot, about 4 yards south of center line of the main track. A standard tablet stamped "2084.080 Q 56 1934" and set in concrete monument projecting about 5 inches above ground.

ELEVATION: 2083.631 feet or 635.092 meters (C-2)

Q 141 (USC&GS, 1935; Haywood County, North Carolina)

Located 24.7 miles southwest of courthouse in Asheville, via U. S. Highways 19, 23 and Pisgah Highway, 13.8 miles southwest of U. S. Post Office at Candler, on Pisgah Highway, on property of E. S. Gerry, 2.3 miles southwest of Cutthroat Gap, 100 feet southwest of Buck Spring Gap, 35.5 feet south of southeast corner of one-story large log house occupied by C. P. Miller, 47.5 feet north of west rock pillar at gate entrance to E. S. Gerry property, 13 feet northwest of center line of Pisgah Mountain Highway, in small grass patch. A standard tablet set in concrete post.

Reference Mark 1: 78.0 feet to southwest post of "Pisgah Inn" sign.

Reference Mark 2: 47.5 feet to west stone pillar post of gate.

Reference Mark 3: 32.3 feet to 1-inch water pipe hydrant.

ELEVATION: 4980.338 feet or 1518.010 meters (T-2)

R 12 (TVA, 1940; Transylvania County, North Carolina)

Located 400 feet southwest of Davidson River station, 50 feet east of road and railroad crossing. A chiseled square 6 feet west of east end of concrete porch of G. H. Lyday's store.

ELEVATION: 2099.074 feet or 639.799 meters (T-2)

R 43 (TVA, 1940; Henderson County, North Carolina)

Located 10.8 miles southwest of U. S. Post Office at Candler, via Pisgah Highway, 0.7 miles north of Cutthroat Gap, 4 miles south of Stony Fork Camp Grounds, 125 feet north of point of sharp curve, and 20 feet east of center line of road. A chiseled square on southeast corner of culvert.

ELEVATION: 4018.650 feet or 1224.887 meters (T-2)

R 56 (USC&GS, 1934; Henderson County, North Carolina)

Located 4.1 miles northwest along the Southern Railway from the station at West Hendersonville, 0.2 miles southeast of the station at Yale, about 2 yards west of the milepost 5, and about 8 yards south of center line of track. A standard tablet stamped "2109.586 R 56 1934" and set in concrete monument projecting about 2 inches above ground.

ELEVATION: 2109.130 feet or 642.864 meters (C-2)

RCK 1 (TVA, 1939; Henderson County, North Carolina)

Located 18.0 miles southwest of U. S. Post Office in West Asheville Station, via Highway 191 and Bent Creek road, 6.7 miles northwest of Mills River, via State Highway 191, on Wash Creek road, in Pisgah National Forest, 0.9 miles north of North Mills River Camp Ground, 4.9 miles south of Bent Creek Gap, on north side of road, right bank of Moore Cove Branch, 32.5 feet west of center line of Moore Cove Branch, 43 feet northwest of west metal culvert of two 36-inch culverts 52 feet south of deer trap, 50 feet north of center line of road, 39 feet east of road up hollow. A standard tablet stamped "RCK 1 1941" and set in concrete post.

Reference Mark 1: 15.5 feet S 15° E to 16-inch crooked apple tree (painted BM).

Reference Mark 2: 21.4 feet S 80° W to 12-inch poplar tree (painted PBM).

Reference Mark 3: 10.3 feet N 25° W to 10-inch poplar tree.

ELEVATION: 2367.800 feet or 721.707 meters (T-2)

RCK 2 (TVA, 1939; Henderson County, North Carolina)

Located 16.9 miles southwest of U. S. Post Office in West Asheville Station, via Highway 191 and Bent Creek road, 7.8 miles northwest of Mills River, via Highway 191 and on Wash Creek road, in Pisgah National Forest, 2.0 miles north of North Mills River Camp Ground, 3.8 miles south of Bent Creek Gap on northeast side of road, 52 feet from center line of road, 64 feet north of east end of 48-inch metal culvert, 55 feet east of Y-road intersection to west, in small clearing, 10 feet west of deer trap, and 20 feet northwest of old apple tree. A standard tablet stamped "RCK 2 1941" and set horizontally and flush in rock outcrop.

Reference Mark 1: 49.0 feet N 25° E to 15-inch forked poplar tree.

Reference Mark 2: 56.5 feet N 40° W to 8-inch pine tree.

Reference Mark 3: 64 feet S 70° W to 12-inch locust tree (painted PBM).

ELEVATION: 2427.830 feet or 740.004 meters (T-2)

RCK 3 (TVA, 1939; Henderson County, North Carolina)

Located 9.6 miles southwest of U. S. Forest Service Bent Creek Lab., 15.7 miles southwest of U. S. Post Office in West Asheville Station, via Highway 191 and Bent Creek road, 9.0 miles northwest of Mills River, via State Highway 191 and on Wash Creek Road, in Pisgah National Forest, 3.3 miles northwest of North Mills River Camp Ground, 2.6 miles south of Bent Creek Gap, 21.5 feet east of center line of road, and 9.5 feet east of top of road bank, in mouth of small hollow. A standard tablet stamped "RCK 3 1941" and set in concrete post.

Reference Mark 1: 11.4 feet N 20° E to 14-inch hickory tree (painted BM).

Reference Mark 2: 8.2 feet S 65° E to 14-inch Spanish oak tree (painted PBM).

Reference Mark 3: 49.3 feet Due West to 8-inch hickory across road.

ELEVATION: 2564.873 feet or 781.775 meters (T-2)

RCK 4 (TVA, 1939; Henderson County, North Carolina)

Located 8.7 miles northwest of Bent Creek Experimental Station Lab., 14.8 miles southwest of U. S. Post Office at West Asheville Station, via Highway 191 and Bent Creek Gap road, 9.9 miles northwest of Mills River, via State Highway 191 and on Wash Creek road, in Pisgah National Forest, 4.3 miles north of North Mills River Camp Ground, 1.7 miles southwest of Bent Creek Gap, on north side of road, 36 feet from center line of road, 20 feet west of branch, 27 feet north of east end of 30-inch metal culvert, 14 feet northeast of top of road bank, and approximately 5 feet above surface of road. A standard tablet stamped "RCK 4 1941" and set flush in concrete post.

Reference Mark 1: 18.4 feet Due East to 12-inch chestnut.

Reference Mark 2: 14.4 feet Due North to 10-inch chestnut.

Reference Mark 3: 30.5 feet S 80° W to 10-inch chestnut.

ELEVATION: 2841.080 feet or 865.963 meters (T-2)

RCK 5 (TVA, 1939; Henderson County, North Carolina)

Located 8.0 miles southwest of Bent Creek U. S. Forest Service Experiment Station, 14.1 miles southwest of U. S. Post Office at West Asheville Station, via State Highway 191 and Bent Creek Gap road, 10.6 miles northwest of Mills River via State Highway 191 and on Wash Creek Road, in Pisgah National Forest, 5.0 miles north of North Mills River Camp Ground, south of Bent Creek Gap, 21 feet south of center line of road, outside of sharp curve to north, approximately 4 feet below surface of road, and 83 feet southwest of north end of 18-inch metal culvert, just east of sharp curve. A standard tablet stamped "RCK 5 1941" and set in concrete post.

Reference Mark 1: 10.8 feet N 65° E to 20-inch pine (painted PBM).

Reference Mark 2: 11.8 feet N 60° W to 8-inch Spanish oak tree.

Reference Mark 3: 12.7 feet S 15° W to 4-inch sassafras tree.

ELEVATION: 3038.698 feet or 926.197 meters (T-2)

RCK 6 (TVA, 1939; Buncombe County, North Carolina)

Located 7 miles southwest of Bent Creek U. S. Forest Service Experiment Station, 13.1 miles southwest of U. S. Post Office at West Asheville Station, via State Highway 191 and Bent Creek Gap road, 11.6 miles northwest of Mills River, via State Highway 191 and Wash Creek Road, on Bent Creek Gap road, in Pisgah National Forest, at Bent Creek Gap, 7.0 miles southwest of State Highway 191, 4.5 miles of Bent Creek Camp Ground, 6.0 miles north of North Mills River Camp Ground, on east side of Bent road, 65 feet from center line of road, 100 feet north of center line of trail, in gap, 79 feet north of U. S. Department of Agriculture Forest Service Marker No. 0, 300 feet east of Forest Service Gage Tower. A standard tablet stamped "RCK 6 1941" and set in concrete post.

Reference Mark 1: 15.0 feet S 70° E to 15-inch red oak.

Reference Mark 2: 20.5 feet S 15° W to 8-inch hickory.

Reference Mark 3: 8.7 feet N 40° W to 15-inch red oak (painted BM).

ELEVATION: 3270.400 feet or 996.820 meters (T-2)

RCK 7 (TVA, 1939; Buncombe County, North Carolina)

Located 5.9 miles southwest of Appalachian Experiment Station Lab., 12.0 miles southwest of U. S. Post Office at West Asheville Station, via State Highway 191 and Bent Creek Gap road, 12.7 miles northwest of Mills River, via State Highway 191 and Wash Creek road, on Bent Creek Gap road, in Pisgah National Forest, 5.9 miles southwest of Highway 191, 3.4 miles southwest of Bent Creek Camp Ground, 1.1 miles north of Bent Creek Gap, on west side of road, 28 feet from center line of road, on left bank of Rich Branch, 23.6 feet north of east end of 48-inch metal culvert, 22 feet east of trail to north, 13 feet west of top of 5-foot road bank. A standard tablet stamped "RCK 7 1941" and set in concrete post.

Reference Mark 1: 18.2 feet S 25° W to 14-inch poplar (painted PBM)

Reference Mark 2: 37.8 feet N 42° W to 4-inch dogwood.

Reference Mark 3: 7.7 feet N 80° E to 12-inch birch.

ELEVATION: 2782.685 feet or 848.164 meters (T-2)

RCK 8 (TVA, 1939; Buncombe County, North Carolina)

Located 5.0 miles southwest of Bent Creek Experiment Station, 11.1 miles southwest of U. S. Post Office at West Asheville Station, via State Highway 191 and Bent Creek Gap road, 13.3 miles northwest of Mills River, via State

Highway 191 and Bent Creek Gap, on Bent Creek Gap road, in Pisgah National Forest, 5.0 miles southwest of State Highway 191, 2.5 miles southwest of Bent Creek Camp Ground, 0.5 miles southwest of Y-road intersection to south on west side of road, 47 feet from center line of road on southwest side of hollow, 33 feet south of log trail up hollow, 21.5 feet southwest of small spring, 47 feet southwest of west end of 24-inch metal culvert, 35 feet southwest of U. S. Department of Agriculture Forest Service Mon. No. 13. A standard tablet stamped "RCK 8 1941" and set in concrete post.

Reference Mark 1: 5.7 feet S 43° E to 12-inch white oak.
Reference Mark 2: 4.2 feet N 55° E to 30-inch Spanish oak (painted FBM).

Reference Mark 3: 4.3 feet N 30° W to 8-inch Spanish oak.
ELEVATION: 2384.306 feet or 726.738 meters (T-2)

RCK 9 (TVA, 1939; Buncombe County, North Carolina)

Located 3.8 miles southwest of Bent Creek Experiment Station, 9.9 miles southwest of U. S. Post Office at West Asheville Station, via State Highway 191 and Bent Creek Gap road, 12.1 miles northwest of Mills River, via Highway 191 and on Bent Creek Gap road, in Pisgah National Forest, 3.8 miles southwest of Highway 191, 1.3 miles southwest of Bent Creek Camp Ground, 0.2 miles southwest of Lake Daniel Boone, 23 feet west of center line of Bent Creek Gap road at Y-road intersection south, 36 feet southwest of west end of 18-inch metal culvert, 41.5 feet west of telephone pole, 60 feet north of gate across side road, approximately 6-1/2 feet above road surface, and 20.8 feet northeast of 6-inch forked holly tree. A standard tablet stamped "RCK 9 1941" and set in concrete post.

Reference Mark 1: 6.0 feet S 45° W to 8-inch pine (painted BM).
Reference Mark 2: 6.6 feet N 60° W to 24-inch pine (painted FBM).
Reference Mark 3: 18.4 feet N 45° E to 10-inch pine (painted BM).

ELEVATION: 2213.834 feet or 674.778 meters (T-2)

RCK 10 (TVA, 1939; Buncombe County, North Carolina)

Located 2.8 miles southwest of Bent Creek Experiment Station, 8.9 miles south of U. S. Post Office at West Asheville Station, via Highway 191 and Bent Creek Gap road, 11.1 miles northwest of Mills River, via State Highway 191 and on Bent Creek Gap road, in Pisgah National Forest, 2.8 miles southwest of Highway 191, 0.3 miles southwest of Bent Creek Camp Ground, 200 feet west of Lake Powhatan Dam, 250 feet southwest of U. S. Forest Service Guard Station, 25 feet south of center line of road, 87 feet southeast of north end 18-inch metal culvert, and 81 feet southwest of corner of barbed wire fence at yard. A standard tablet stamped "RCK 10 1941".

Reference Mark 1: 60.5 feet N 70° W to 20-inch white pine (painted FBM).

Reference Mark 2: 63.0 feet N 10° E to 10-inch forked sycamore tree across road.

Reference Mark 3: 10.0 feet N 65° E to 5-inch forked pine tree.
ELEVATION: 2156.488 feet or 657.299 meters (T-2)

RCK 11 (TVA, 1939; Buncombe County, North Carolina)

Located 1.8 miles southwest of Bent Creek Experiment Station, 7.9 miles south of U. S. Post Office at West Asheville Station, via State Highway 191 and Bent Creek Gap road, 10.1 miles north of Mills River, via State Highway 191 and on Bent Creek Gap road, in Pisgah National Forest, 1.8 miles southwest of State Highway 191, 0.7 miles northeast of Bent Creek Camp Ground, on southeast side of Bent Creek Gap road, 29 feet from center line of road on left bank Bent Creek, right bank of Wolf Creek, 36 feet south of center line of road and bridge, 60 feet southwest of T-road, intersection to north, 22 feet south of southwest end of stone headwall of bridge, 4 feet south of rock ledge, and 9 feet west of east edge of rock ledge. A standard tablet stamped "RCK 11 1941" and set horizontally in rock outcrop.

Reference Mark 1: 9.0 feet N 60° E to 10-inch leaning chestnut oak.

Reference Mark 2: 10.4 feet S 80° W to 8-inch black oak tree.

Reference Mark 3: 15.2 feet S 25° E to 20-inch white oak tree.
ELEVATION: 2092.201 feet or 637.704 meters (T-2)

RCK 12 (TVA, 1939; Buncombe County, North Carolina)

Located 1.0 miles southwest of Bent Creek Experiment Station, 7.1 miles south of U. S. Post Office at West Asheville Station, via State Highway 191, 9.3 miles north of Mills River, via State Highway 191, and on Bent Creek Gap road, in Pisgah National Forest, 1.0 miles southwest of State Highway 191, 0.9 miles southwest of Pisgah National Forest sign at entrance, 23 feet west center line of road, 79 feet south of 18-inch metal culvert, inside of sharp curve to southwest, just east of old road bed. A standard tablet stamped "RCK 12 1941" and set in concrete post.

Reference Mark 1: 10.9 feet S 10° E to 30-inch Spanish oak (painted FBM).

Reference Mark 2: 28.0 feet N 70° W to 8-inch dogwood tree.

Reference Mark 3: 11.7 feet N 10° E to 15-inch pine (Painted FBM).
ELEVATION: 2047.188 feet or 623.984 meters (T-2)

RCK 14 (TVA, 1939; Henderson County, North Carolina)

Located 1.9 miles north of Mills River Community via State Highway 191, and 280, 5.4 miles southwest of U. S. Post Office at Fletcher, via Fanning Bridge road, on State Highways 291 and 280, on L. H. Hayes' property, on west side of highway, 45 feet from center line, at Hayes Mill, near northwest corner of small one-story frame warehouse, 80 feet west of two-20-inch pine trees that stand in yard across highway, 73 feet north of entrance to mill building, 80 feet due west of west end of hedge row across highway from bench mark, 150 feet southwest of large two-story frame house. A standard tablet stamped "RCK 14 1941", and set in concrete post.

Reference Mark 1: 2.3 feet N 55° W to northwest corner of warehouse.

Reference Mark 2: 72.0 feet S 05° ZW to east edge of door to mill building.

Reference Mark 3: 31.0 feet N 65° E to 20-inch west end of culvert at angle in headwall.
ELEVATION: 2122.634 feet or 646.980 meters (T-2)

RCK 15 (TVA, 1939; Henderson County, North Carolina)

Located 3.1 miles north of Mills River, via State Highway 191 and Fanning Bridge road, 4.3 miles west of U. S. Post Office, Fletcher, on Fanning Bridge road, at edge of road right-of-way, 1.0 miles east of Fanning Chapel, 0.8 miles east of highway, 0.7 miles southwest of Fanning Bridge, on south side of county road, west side of Y-road at B. J. Hills residence, 300 feet west of B. J. Hills' house, 100 feet southeast of garage across road, 29 feet south of B. J. Hills' mailbox, 17.4 feet west of Hill and Lance stone property corner,

1.5 feet north of wire fence, at west end of plank gate. A standard tablet stamped "RCK 15 1941" and set in concrete post.

Reference Mark 1: 7.7 feet Due West to 10-inch double white oak tree in fence line.

Reference Mark 2: 22.5 feet S 10° W to 12-inch white oak tree.

Reference Mark 3: 35.5 feet S 70° E to 16-inch white oak tree.

ELEVATION: 2158.870 feet or 658.025 meters (T-2)

RCK 16 (TVA, 1939; Henderson County, North Carolina)

Located 3.1 miles west of U. S. Post Office in Fletcher, via Fanning Bridge road, 4.2 miles northeast of Mills River, via State Highway 192 on Fanning Bridge road, on P. B. Moore's property, 0.5 miles east of Fanning Bridge, on south side of road, in yard of P. B. Moore, 57 feet north of one-story frame residence of P. B. Moore, 1.5 feet south of woven wire fence and hedge row, at sharp curve in road, 57 feet west of light pole, and 12.5 feet east of small gate entrance to yard. A standard tablet stamped "RCK 16 1941" and set in concrete post.

Reference Mark 1: 7.4 feet S 45° E to 6-inch willow oak tree.

Reference Mark 2: 5.5 feet N 60° W to 6-inch locust tree.

Reference Mark 3: 19.0 feet Due South to 4-inch persimmon tree.

ELEVATION: 2075.163 feet or 632.511 meters (T-2)

RCK 17 (TVA, 1939; Henderson County, North Carolina)

Located 2.1 miles west of U. S. Post Office in Fletcher, on Fanning Bridge road, 1.5 miles east of Fanning bridge, at edge of county road right-of-way, 29 feet north of center line of county road, 15 feet west of old cross-road, 58.5 feet northwest of lone white pine tree and Oak Grove Farm sign that stands in small triangle formed by roads, at edge of road right-of-way, clearing line and woods line, 500 feet west of Y-road intersection to north, 50 feet west of crest of hill, on 2-1/2 foot road bank. A standard tablet stamped "RCK 17 1941" and set nearly flush in concrete post.

Reference Mark 1: 10.0 feet N 50° E to 10-inch white oak tree.

Reference Mark 2: 21.0 feet N 15° E to 10-inch white oak tree.

Reference Mark 3: 13.0 feet N 45° W to 10-inch leaning white oak.

ELEVATION: 2152.207 feet or 655.994 meters (T-2)

RCK 18 (TVA, 1939; Henderson County, North Carolina)

Located 0.9 miles west of U. S. Post Office in Fletcher, on Fanning Bridge road, 2.7 miles east of Fanning Bridge, at edge of county road right-of-way, on northeast side of county road, 27 feet from center line of road, 300 feet north of Y-road intersection to south, 150 feet southeast of Kinsey Creek, 400 feet east of large two-story frame house, at edge of woods in old road bed on outside of sharp curve, and 18 feet south of path to east. A standard tablet stamped "RCK 18 1941" and set in concrete post.

Reference Mark 1: 39.0 feet S 15° E to 30-inch white oak tree.

Reference Mark 2: 19.0 feet N 70° W to 30-inch white oak tree.

Reference Mark 3: 47.5 feet N 40° E to 10-inch red oak tree.

ELEVATION: 2104.222 feet or 641.368 meters (T-2)

RV 40 (Southern Railway, ? ; Buncombe County, North Carolina)

Located at Skyland, on the Southern Railway, about 0.3 miles south of milepost 7, about 300 feet south of station, at automatic signal, 73, in top of northwest corner of concrete base. A standard monel-metal rivet.

ELEVATION: 2245.389 feet or 684.396 meters (C-2)

RV 41 (Southern Railway, ? ; Buncombe County, North Carolina)

Located at Arden, on Southern Railway, about 0.5 miles south of milepost 8, about 300 feet south of station on west side of track, 7.5 feet west of west rail of a siding, and in the top of a 3-by-3-foot concrete block base. A standard monel-metal rivet.

ELEVATION: 2225.261 feet or 678.261 meters (C-2)

RV 42 (Southern Railway, ? ; Henderson County, North Carolina)

Located 3/4 mile south along Southern Railway from Fletcher, 50 feet south of milepost 12, at bridge W 12.0, in top of west end of north abutment, 5.5 feet west of west rail, and about 3 feet lower than track. A standard monel-metal rivet.

ELEVATION: 2069.674 feet or 630.838 meters (C-2)

RV 43 (Southern Railway, ? ; Henderson County, North Carolina)

Located at Naples, about 150 feet south of Southern Railway station shed, at cantilever signal W 143, and in top of concrete base. A standard monel-metal rivet.

ELEVATION: 2080.468 feet or 634.128 meters (C-2)

RV 387 (Southern Railway, ? ; Henderson County, North Carolina)

Located 2.9 miles northwest along Southern Railway from station at West Hendersonville, 0.8 miles northwest of station at Davis, about 0.2 miles southwest of milepost 4, about 60 yards west of center line of farm entrance drive, and in the center of the top of south concrete headwall of a 30-inch corrugated iron pipe culvert. A monel-metal rivet.

ELEVATION: 2163.145 feet or 659.328 meters (C-2)

RV 388 (Southern Railway, ? ; Henderson County, North Carolina)

Located at the east edge of Horse Shoe, 0.2 miles east of Southern Railway station, about 110 yards east of milepost 7, about 31 yards east of center of crossing of U. S. Highway 64, at a 4-by-6-foot concrete box culvert under the highway, in the center of the top of south concrete headwall, and about 20 yards north of center line of track. A monel-metal rivet.

ELEVATION: 2065.291 feet or 629.502 meters (C-2)

RV 389 (Southern Railway, ? ; Henderson County, North Carolina)

Located 1.4 miles southwest along Southern Railway from Etowah, 1 mile northeast of station at Blantyre, near trestle 11.4, at the concrete bridge on U. S. Highway 64, in the top of the south concrete wingwall of the east abutment. A monel metal rivet.

ELEVATION: 2080.599 feet or 634.168 meters (C-2)

RV 390 (Southern Railway, ? ; Transylvania County, North Carolina)

Located at Penrose, 3 yards west of the Southern Railway station, about 100 yards east of milepost 15, about 18 yards west of the center line of a crossroad, and in the top of the north end of the headwall of a 24-inch corrugated iron culvert. A monel metal rivet.

ELEVATION: 2085.534 feet or 635.672 meters (C-2)

SCHOOL (USGS, 1934; Henderson County, North Carolina)

Located at public school building 2 miles south of Mills River store. Station is flagpole on cupola on square public school building.

GEODETTIC POSITION: Lat. = 35°22'37.065"; Long. = 82°34'01.250" (G-3)*

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Stoney	289°37'22.2"	109°40'09.0"	3.887887	4.8
Fleetwood	330 53 44.1	150 55 15.8	3.914942	5.1

SKYLAND (USGS, 1934; Buncombe County, North Carolina)

Located 0.6 miles (airline) east of Skyland Post Office, on north side of cleared spot at timber edge on highest point of Brown Mountain. To reach from Skyland Post Office, take U. S. Highway 25 north 1.0 miles, turn right 1.1 miles, thence right 1.1 miles to Warrens house, walk up old road left to ridge, thence right along corn field to first trail turning right, thence up trail to top and station. A standard tablet stamped "SKYLAND 1934" and cemented in rock set in place.

Reference Mark 1: 12.4 feet West to drill hole in rock.

Reference Mark 2: 20.15 feet North to drill hole in rock.

Reference Mark 3: 20.4 feet N 85° E to drill hole in rock.

Report on Condition (TVA, Feb., 1941): Rock with bronze tablet has been destroyed. Reference marks were recovered as described in good condition.

GEODETTIC POSITION: Lat. = 35°29'06.904"; Long. = 82°30'33.953" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Spivey	134°51'08.8"	314°46'10.7"	4.260222	11.3
Cedar Cliff	213 20 38.6	33 22 37.7	3.973039	5.8
Bearwallow	281 06 02.7	101 11 20.7	4.148537	8.7

GRID POSITION (N.C.): X = 955,481.2; Y = 649,982.0 (G-3)

ELEVATION (R.M. 2): 2996 feet (T-5)

STONY BALD (TVA, 1941; Buncombe-Henderson Counties, North Carolina)

Located about 14 miles north of Brevard. To reach from intersection of U. S. Highway 276 and State Highway 280 at Pisgah Forest arch entrance, go 15.0 miles on U. S. Highway 276 to Wagon Road Gap, turn right and go 7.2 miles to Cutthroat Gap, leave truck and walk 800 feet east. Point is at highest point on knob. A drill hole in rock.

Reference Mark 1: 7.7 feet S 15° E to nail and washer in 3-inch oak.

Reference Mark 2: 8.0 feet N 53° W to nail and washer in 8-inch oak.

Reference Mark 3: 25.3 feet N 25° E to nail and washer in 10-inch oak.

GRID POSITION (N. C.): X = 890,616.6; Y = 635,009.9 (T-4)

ELEVATION: 4563 feet (T-5)

TOWER (USGS, 1934; Transylvania County, North Carolina)

Located 3/4 miles north of Pisgah Forest on a cleared knoll, 100 feet southeast of barn, 100 feet south of house. To reach from Pisgah Forest Post Office, drive east on U. S. Highway 64 0.2 miles to bridge over Davidson River, cross bridge and turn left on gravel road along the east bank of Davidson River, 0.4 miles to a T-road, thence right, keeping on main traveled road 0.7 miles to crossroad, thence left 0.2 miles, thence left through gate 0.1 miles to barn yard. Tower is about 100 feet southeast of barn in a pasture. Station is center of steel tower.

GEODETTIC POSITION: Lat. = 35°15'55.230"; Long. = 82°41'38.087" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Sugar Loaf	29°40'27.3"	209°39'09.0"	3.840369	4.3
Fodderstack	245 20 19.4	65 22 06.3	3.711475	3.2

GRID POSITION (N. C.): X = 897,620.8; Y = 571,994.6 (G-3)

ELEVATION (HUB UNDER TOWER): 2178 feet (T-5)

USFS 33 (U. S. FOREST SERVICE, ? ; Henderson County, North Carolina)

Located 33.4 feet N 32° W of "IR 609" (see description thereof). Station is U. S. Forest Service monument 33.

GRID POSITION (N. C.): X = 927,110.2; Y = 647,580.5 (T-4)

ELEVATION: 3004 feet (T-5)

USFS 112 (U. S. FOREST SERVICE, ? ; Buncombe County, North Carolina)

Located 3.4 feet N 35° W of "IR 611" (see description thereof). Station is U. S. Forest Service monument 112.

GRID POSITION (N. C.): X = 910,684.1; Y = 653,257.9 (T-4)

ELEVATION: 3711 feet (T-5)

USGS 2086 (USGS, 1896; Henderson County, North Carolina)

Located at Mills River, 20 feet east of former post office, in rock, on right bank of Mills River, east of Mills River Bridge. Copper bolt stamped "USGS 2086".

ELEVATION: 2075.600 feet or 632.644 meters (T-2)

USGS 2154 (USGS, 1896; Transylvania County, North Carolina)

Located at Calhoun, in southwest corner of foundation of Wilson's store. Bronze tablet stamped "2154".

ELEVATION: 2143.4 feet (E-4)

USGS 2263 (USGS, 1896; Buncombe County, North Carolina)

Located about 2 miles (airline) southwest of West Haven, 100 yards south of Avery Creek, 350 yards south of road, on Mrs. S. R. Lance's property, 30 feet east of spring and near south end, on east side of lane between house and stable. Copper bolt stamped "U.S.G.S. 2263".

ELEVATION: 2255.2 feet (G-4)

YELLOW (USGS, 1934; Henderson County, North Carolina)

Located 14 (airline) miles northwest of Hendersonville, 14 miles southwest of Asheville, 1 mile northwest of Yellow Gap. To reach from West Asheville, take State Highway 191 south 13.7 miles to Mills River road, turn right 8.7 miles (3.5 miles beyond Yellow Gap CCC Camp), walk (keep right) to highest point and station on round timbered top known as Black Mountain. A standard tablet stamped "YELLOW 1934" and cemented in rock.

Reference Mark 1: 51.31 feet N 45° E to drill hole in rock.

Reference Mark 2: 31.5 feet S 10° W to drill hole in rock.

Reference Mark 3: 29.4 feet S 85° W to drill hole in rock.

GEODETTIC POSITION: Lat. = 35°24'10.857"; Long. = 82°41'14.210" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pink	27°03'54.7"	207°02'17.0"	3.971759	5.8
Pisgah	111 41 01.3	291 38 35.9	3.833067	4.2
Double Knob	237 01 24.1	57 03 36.9	3.838911	4.3

* Unchecked position.

GRID POSITION (N. C.): X = 901,460.0; Y = 621,991.8 (G-3)

ELEVATION: 3914 feet (T-5)

YOUNG PISGAH (USGS, 1934; Buncombe County, North Carolina)

Located 6 miles by road south of Candler, on Young Pisgah Mountain. To reach from Candler, drive south on Beaverdam road, 3.3 miles to Y-road, thence right 1.0 miles to T-road, thence right 0.5 miles to log road left, by a row of poplar trees, thence left on log road, 0.4 miles to trail left up mountain, follow trail up cove to gap, thence left up ridge to highest point and station. A standard tablet stamped "YOUNG PISGAH 1934" and cemented in rock, set in place.

Reference Mark 1: 13.73 feet S 10° W to drill hole in rock set in place.

Reference Mark 2: 14.94 feet N 85° W to drill hole in rock set in place.

Reference Mark 3: 10.65 feet N 04° E to drill hole in rock set in place.

GEODETTIC POSITION: Lat. = 35°28'14.070"; Long. = 82°41'52.112" (G-3)

To Station	Geodetic Azimuths		Distance	
	Azimuth	Back Azimuth	Log. Meters	Miles
Pisgah	47°09'37.8"	227°07'34.3"	3.864783	4.6
Smathers	126 49 10.7	306 46 22.5	3.959478	5.7
Spivey	196 03 43.5	16 05 19.6	4.177478	9.4