

UPPER FRENCH BROAD BENCH MARKS

Tennessee Valley Authority

Fourth Order

NGVD 29  
Elevations

The UFB bench marks are filed with the TVA control booklets. The designations range from UFB-1 through UFB-315 and are listed in this order.

This cover sheet is placed with USGS Quads to inform that additional BM's are available in the listed quads.

<u>USGS</u>	<u>TVA</u>
87	194
88	185
123	202
✓124	193
160	201
161	192
194	200
195	191
196	182

QUAD. ARDEN STATE NORTH CAROLINA BY E. L. FAISON, ALTITUDE ABOVE  
 ORDER THIRD ADJ. SEA LEVEL E. M. LONG, MEAN SEA LEVEL  
 O Bul. 646 DATUM OF 1929 1896 (Feet)  
 P 7/20/55/dlk T. S. MAULDIN, Jr., 1897  
 Y

NORTH CAROLINA  
 ARDEN QUADRANGLE  
 (Latitude 35°15'-35°30'; Longitude 82°30'-82°45')  
 HENDERSON AND TRANSYLVANIA COUNTIES

NGVD 29  
 Elevations

- FROM SANDY BOTTOM SOUTHEAST VIA MILLS RIVER TO RUGBY,  
 THENCE NORTH TO SKYLAND -

- Avery, 0.75 mi. N. of, E. side of hollow, 40 ft. N. of spring,  
 45 ft. E. of blacksmith shop at foot of Ball Mountain, in  
 large rock; copper bolt stamped "U. S. G. S. 2184" 2,174.086
- Gypsy, 100 ft. NE. of former post office, W. of road, in  
 rock; copper bolt stamped "U. S. G. S. 2182" 2,172.024
- Mills River, 20 ft. E. of former post office, in rock; copper  
 bolt stamped "U. S. G. S. 2086" 2,075.583
- Fletcher, E. side of stone curb of well at SE. corner of  
 post office; bronze tablet stamped "2123" N/F 2003 2,112.443
- Fletcher, Southern Ry. station; top of rail 2,091.1
- Skyland, in front of station; top of rail 2,253.8

- FROM AVERY CREEK SOUTHWEST TO LANCE'S (spur line) -

- Avery Creek, 100 yds. S. of, 350 yds. S. of road, on Mrs.  
 S. R. Lance's property, 30 ft. E. of spring near S. end,  
 on E. side of lane between house and stable; copper bolt  
 stamped "U. S. G. S. 2263" 2,255.392

- FROM CANDLER SOUTH TO DUNSMORE (single spur line) -

- Dunsmore, 250 ft. E. of ford of Stony Fork, inside of pasture  
 fence, S. of road, in large rock; copper bolt stamped  
 "2388-A" 2,387.190

- FROM MILLS RIVER WEST TO SITTON (spur line) -

- Sitton, 0.5 mi. NE. of, E. of road next to river, 200 yds.  
 S. of Mills River Baptist Church, 0.25 mi. N. of Phillip  
 Allen's house; copper bolt stamped "U. S. G. S. 2166" 2,156.218

- FROM MILLS RIVER SOUTHWEST ALONG BOYLSTON CREEK ROAD TO BREVARD -

- Henderson-Transylvania Co. boundary stone, 50 yds. beyond  
 branch which runs Mr. Reese's old mill, on W. bank of  
 Boylston Creek, W. of road, on stone; chiseled cross in  
 chiseled circle 2,199.30

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QUAD. ARDEN

STATE NORTH CAROLINA By E. L. FAISON, ALTITUDE ABOVE  
E. M. LONG, MEAN SEA LEVEL  
1896 (Feet)  
T. S. MAULDIN, Jr., 1897

C ORDER THIRD

ADJ. SEA LEVEL  
DATUM OF 1929

O Bul. 646

P 7/20/55/dlk

Y

-2-

NGVD 29  
Elevations

Henderson-Transylvania Co. line, 300 ft. N. of boundary,  
300 yds. from the old Reese mill, 75 yds. from point  
where rd. bends to S., 100 yds. from house E. of road,  
16 ft. from center of road, in rock N. of road; copper  
bolt stamped "2209" 2,198.0

- VICINITY OF BREVARD -

Brevard, at entrance to courthouse, W. end of bottom step;  
chiseled cross 2,227.30

- FROM BREVARD SOUTHEAST TO WILSON BRIDGE, THENCE NORTHEAST  
TO POINT NEAR BOWMAN BLUFF -

Davidson River, on bottom stone step of post office on W.  
side; cross mark 2,100.26

Calhoun, in SW. corner of foundation of Wilson's store;  
bronze tablet stamped "2154" (Reported defaced, 1927) 2,143.731

Bowman Bluff, 1 mile W. of, at sharp bend in road where it  
parallels river, 10 ft. from center of road, W. of road  
on river bank, in large rock; copper bolt stamped "U. S.  
G. S. 2083" 2,073.508

- FROM CALHOUN EAST TO OSTEEN -

Grange, Zackey & Rogers's store, on W. end of upper stone  
step; mark 2,098.38

Osteen, 100 yds. SE. of, N. of rd. at bend, in rock; copper  
bolt stamped "2201" 2,190.780

- FROM OSTEEN ALONG ROAD EAST AND NORTH TO PENROSE  
(double-run tie line by B. B. Chamblin, 1936, Bk. B6579) -

Grange, 2.0 mi. E. of, 40 ft. E. of center of road, about  
midway of "S" curve in road, 12 ft. S. of small stream,  
halfway between 2 residences, on flat rock; chiseled  
cut, painted "U S" 2,137.70

Grange, 1.02 mi. E. of, 20 ft. N. of center line of road,  
in front of residence of W. J. McKinney, and in root  
on S. side of 30-in. oak tree; copper nail and washer 2,128.49

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ARDEN QUADRANGLE

N3515-W8230/15  
NORTH CAROLINA

UNITED STATES DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

THIRD-ORDER LEVELING

Bull. 646

By E. L. Faison and

E. M. Long, 1896;

T. S. Mauldin, Jr., 1897

SEA LEVEL DATUM OF 1929

Feet

FROM SANDY BOTTOM SOUTHEAST VIA MILLS RIVER TO RUGBY  
THENCE NORTH TO SKYLAND.

Fletcher, at SE. corner of post office; in E. side of  
stone curb of well; standard tablet stamped "2123"

2112.443 ✓

FROM BREVARD SOUTHEAST TO WILSON BRIDGE THENCE NORTHEAST  
TO POINT NEAR BOWMAN BLUFF.

Calhoun; in SW. corner of foundation of Wilsons Store;  
standard tablet stamped "2154" (Reported defaced, 1927)

2143.731 ✓

FROM OSTEEN ALONG ROAD EAST AND NORTH TO PENROSE  
(Double-run tie line by B. B. Chamblin, 1936, Book B6579)

✓ Grange, 200 ft N. of rd. fork, in front of McCrarys  
Grocery Store; in SW. corner of cement porch; standard  
tablet stamped "2112 1935"

2112.050 ✓

Penrose, about 249 ft W. of Southern Railway station;  
60 ft E. of milepost 15; 75 ft E. of bridge; 15 ft  
S. of centerline of track; in concrete post; standard  
tablet stamped "L 56 1934 2086.495"

2086.072 ✓

NGVD 29  
Elevations

124  
QUAD. ARDEN  
ORDER THIRD  
O Bk. B6579  
P 7/20/55/dlk  
Y

STATE NORTH CAROLINA BY B. B. CHAMBLIN, ALTITUDE ABOVE  
1936 MEAN SEA LEVEL  
ADJ. SEA LEVEL DATUM OF 1929 (Feet)

Grange, 200 ft. N. of road fork, in front of McCrary's grocery store, in SW. corner of cement porch; standard tablet stamped "2112 1935"	2,112.050
Calhoun, 17 ft. E. of center of road, 200 ft. N. of intersection of road W., in front of residence, in root on S. side of 40-in. oak tree; copper nail and washer	2,142.39
Penrose, 0.2 mi. S. of, on top of SW. corner of concrete bridge over French Broad River, on top of railing 3 ft. from S. end; chiseled square	2,091.52
Penrose, about 83 yards W. of Southern Ry. station, 20 yds. E. of milepost 15, 25 yds. E. of bridge, (15.0) 5 yds. S. of center line of track, set in top of conc. post; std. tablet stamped "L 56 1934 2086.495"	2,086.072

NGVD 29  
Elevations