

THIRD-ORDER LEVELING
SEA LEVEL DATUM OF 1929

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

36-081-42
MOUNT ROGERS QUADRANGLE
24 VA., 276 N.C., 190 TENN.
N3630-W8130/15
DIAGRAM NJ 17-11
WINSTON-SALEM

Washington, Grayson, and Smith Counties, Virginia;
Ashe County, North Carolina; Johnson County,
Tennessee

Only the permanent marks are
listed for lines run more
than 25 years before edition
date

Final adjustment of 1972

Edition of 12/28/73

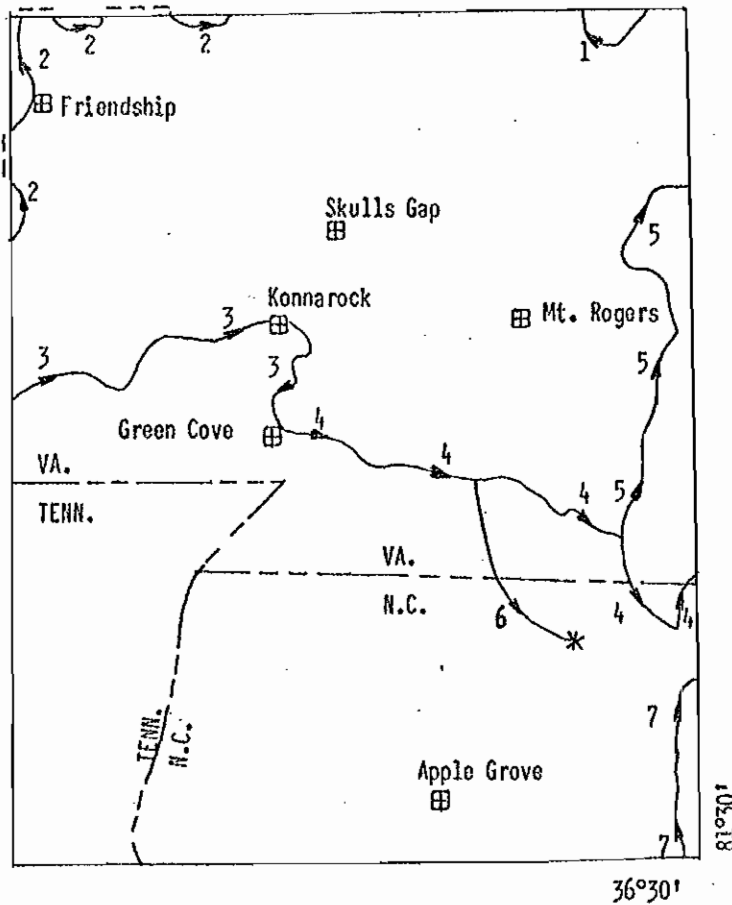
PR: CRV/mna

NGVD 29
Elevations

MARION
(56)

RIVER KNOBS
(25 VA.-191 TENN.)

MOUTH OF WILSON
(23 VA.-275 N.C.)



NGS (USC&GS) VERTICAL CONTROL DATA

A. Quadrangle 360814

MEAT CAMP
(157 TENN.-251 N.C.)

MOUNT ROGERS QUADRANGLE
24 VA.--276 N.C.--190 TENN.

36-081-42
N3630W, 0130/15

INDEX OF PERMANENT MARKS

MARK (USGS)

PAGE NO.

2240	3
2366	3
2896	4
2945	3
2954	7
3123	3
3920	3
4535	3
3 M 1934	3
4 M 1934	4
5 M 1934	4
6 M 1934	4
7 M 1934	4
8 M 1934	5
9 M 1934	5
10 M 1934	5
11 M 1934	5
12 M 1934	5
13 M 1934	6
TT 13 H 1934	6
TT 14 H 1934	7
21 ATA 2891 1950 <i>N-F/a1</i>	9
22 ATA 2867 1950 <i>N-F/a1</i>	7

NGVD 29
Elevations

1908

ISOLATED BENCH MARKS (By J. B. Metcalfe, 1908; Bulletin 441 corrected)

feet

Hemlock, 1.0 mi NE. of; 550 ft SW. of where Laurel Creek crosses rd.; 6 ft SE. of rd. forks to S.; in sandstone ledge; standard tablet stamped "3123"	3122.985
Laurel Blomery, 11.9 mi E. of; on top of Big Spring Mountain; 6 ft N. of rd.; in ledge of limestone; standard tablet stamped "3920"	3919.759
Apple Grove, 2.3 mi E. of; at junction of two prongs of Little Horse Creek; 300 ft N. of forks to E.; 6 ft above level of rd.; 6 ft NE. of rd. near Mr. Hamm's house; in rock ledge; standard tablet stamped "2945"	2945.339
Taylor's Valley; 0.26 mi NW. of station; 7 ft E. of railroad; in ledge of rock in cut; standard tablet stamped "2366"	2364.564
Konnarock; 0.61 mi SW. of station; 10 ft N. of railroad; in ledge of rock stem of tablet (Elev. of stem)	2895.550
Whitetop Gap; about 0.2 from top of gap between Whitetop and Rogers Mountains; about 60 ft S. of second-class rd. fork to SW.; about 7 ft W. of rd.; in ledge of rock; standard tablet stamped "4535"	4534.775
Skulls Gap, 4.4 mi N. of; on rd. to Chilhowie; 50 ft S. of large spring with house over it; 35 ft E. of rd; in limestone rock projecting from foot of hill; standard tablet stamped "2240 (Elevation doubtful)	2238.502

LINE 1.

NGVD 29
Elevations

By F. B. Neary, 1931 Book B4113

U.E., Valley View School, 0.4 mi W. of; 12.6 mi SE. of Chilhowie; 125 ft E. of rd. fork N.; 30 ft N. of rd.; on rock; chiseled square	2572.04
---	---------

LINE 2.

By N. Lee Moore, 1934; Book B5839

U.E., Widener Valley School, 30 ft W. of; 6.1 mi N. of Damascus; 50 ft E. of rd. intersection; on ledge; chiseled square	2078.52
U.E., Friendship, 1.1 mi S. of; 100 ft N. of I-rd. E.; 100 ft W. of South Fork of Holston River; 90 ft S. of W. end of footbridge; on W. side of rd.; on ledge; chiseled square	1944.78
U.E., Friendship; 150 ft W. of store; 50 ft NW. of rd.; intersection on ledge; chiseled square	1999.91
U.E., Friendship, 0.7 mi N. of; 25 ft W. of rd.; on ledge; chiseled square	2120.07
Friendship, 1.5 mi N. of; 130 ft SE. of rd. fork; 100 ft E. of rd.; in ledge; standard tablet stamped "3 M 1934"	1927.246
Reference mark; 70 ft N. of tablet; 85 ft E. of fork of rd.; 15 ft S. of rd.; on ledge; chiseled square	1919.05

LINE 2 (Cont'd)Feet

U.E., Friendship, 1.5 mi N. of thence 1.2 mi E.; 3.0 mi W. of Loves Mill; 90 ft N. of barn; 50 ft E. of drain; 30 ft S. of rd.; on ledge; chiseled square	2042.13
U.E., Loves Mill, 2.4 mi of; 140 ft W. of store; 60 ft SW. of crossroad; 40 ft S. of rd.; on ledge; chiseled square	2133.03
Loves Mill; 140 ft W. of store; 50 ft N. of rd.; 30 ft W. of stone spring house; in ledge; standard tablet stamped "4 M 1934"	2066.997
Reference mark; about 200 ft W. of tablet; 330 ft E. (W.) of Loves Mill store; on S. side of paved rd. at fork of rd.; on ledge; chiseled square	2076.88

LINE 3.NGVD 29
Elevations

By A. Lee Moore, 1934; Book B5839

Damascus, 4.1 mi E. of; about 50 ft above railroad; 20 ft W. of rd.; on point of cliff; in rock; standard tablet stamped "5 M 1934"	2214.004
Reference mark; 170 ft N. of tablet; on N. side of rd.; in cut on ledge; chiseled square	2216.88
U.E., Damascus, 5.0 mi E. of; 450 ft N. of creek fork; 130 ft N. of house; on S. side of rd.; on large boulder; chiseled square	2238.09
U.E., Damascus, 6.1 mi E. of; 25 ft N. of rd.; on large boulder; chiseled square	2472.31
Damascus, 7.4 mi E. of; 20 ft N. of rd.; on N. side of creek; 1 ft above water; in ledge; standard tablet stamped "6 M 1934"	2873.687
Reference mark; 55 ft W. of tablet; 20 ft E. of bridge; on S. side of rd.; on ledge; chiseled square	2875.76
U.E., Damascus, 8.7 mi E. of; top of grade; on N. side of rd.; on rock; chiseled square	3048.44
Konnarock, 1.9 mi SW. of; 10.2 mi E. of Damascus; 25 ft S. of rd.; in large boulder; standard tablet stamped "7 M 1934"	2886.233
Reference mark; 380 ft W. of tablet; on N. side of rd.; on ledge; chiseled square	2891.91
U.E., Konnarock, 1.0 mi SW. of; ft W. of rd. fork S.; on N. end of E. abutment of bridge; chiseled square	2876.87
Konnarock; 0.6 mi SW. of station; 10 ft N. of railroad; in ledge of rock; standard tablet stamped "2896"	2895.550

LINE 4.

By A. Lee Moore, 1934; Book B5839

U.E., Konnarock, 1.0 mi SW. of, thence 0.7 mi S.; 20 ft E. of rd.; 150 ft E. of house; on ledge; chiseled	3066.81
---	---------

LINE 4 (Cont'd)

	<u>Feet</u>
Big Hill, 1.0 mi SW. of, thence 1.3 mi SE. of Konnarock; 150 ft S. of fork of rd.; 100 ft S. of store; in ledge; standard tablet stamped "8 M 1934"	3356.660
Reference mark; 150 ft N. of tablet; on S. side of rd.; at NW. corner of store; on large rock; chiseled square	3358.94
U.E., Konnarock, 1.0 mi SW. of, thence 2.7 mi SE.; 420 ft NE. of house; 45 ft NW. of rd.; on E. bank of creek; on ledge square	3120.60
U.E., Green Cove School, 450 ft NE. of; 4.8 mi S. of Konnarock; 0.7 mi NW. of Christian Church; 40 ft SW. of rd.; 10 ft NE. of creek; on ledge; chiseled square	3116.24
Green Cove Post Office, 0.4 mi E. of; 125 ft SE. of Christian Church; 90 ft SE. of rd. fork; in ledge; standard tablet stamped "9 M 1934"	3258.987
Reference mark; 125 ft NW. of tablet; 15 ft E. of rd.; 10 ft W. of SW. corner of church; on large boulder; chiseled square	3255.70
U.E., Green Cove, 1.3 mi E. of; 75 W. of bridge; 40 ft N. of rd.; on ledge; chiseled square	3534.97
Green Cove, 3.0 mi E. of; 160 ft NE. of fork of rd. SW.; 100 ft N. of rd.; on E. side of fence; in ledge; standard tablet stamped "10 M 1934"	3745.979
Reference mark; 180 ft SW. of tablet; on W. side of rd. intersection; on large boulder; chiseled square	3735.32
U.E., Green Cove, 4.0 mi E. of; at top of grade; 90 ft W. of rd.; N. fork to Withetop Gap; 40 ft N. of house; on N. side of rd.; on ledge; chiseled square	3854.77
U.E., Green Cove, 4.3 mi E. of; at NW. corner of T-rd. S.; chiseled square	3760.82
U.E., Green Cove, 5.0 mi E. of; 15 ft S. of rd.; in trail; on ledge; chiseled square	3582.28
Green Cove, 5.5 mi E. of; 80 ft E. of Helton Creek; 80 ft W. of house; 50 ft N. of rd.; in ledge; standard tablet stamped "11 M 1934"	3417.915
Reference mark; 230 ft S. of tablet; 30 ft SW. of rd.; on large boulder; chiseled square	3418.17
U.E., Green Cove, 6.6 mi E. of; 200 ft S. of house; 25 ft N. of rd.; on W. side of private rd.; on ledge; chiseled square	3286.69
U.E., Green Cove, 7.6 mi SE. of; 160 ft SW. of Lutheran Church; 25 ft S. of rd.; on large rock; chiseled square	3155.09
Green Cove, 8.1 mi SE. of; 100 ft W. of mouth of Cabin Creek; 40 ft SW. of bridge; 30 ft S. of Helton Creek; 35 ft W. of rd.; in ledge; standard tablet stamped "12 M 1934"	3098.178
Reference mark; 30 ft S. of tablet; 10 ft N. of rd. (mark not described)	3101.02

LINE 4 (Cont'd)Feet

U.E., Feeze Branch of Helton Creek, 1.2 mi NW. of; 9.4 mi SW. of Green Cove; 75 ft S. of house; 35 ft N. of rd.; on S. side of Helton Creek; on ledge; chiseled square	2978.00
Feeze Branch of Helton Creek, 190 ft NE. of mouth of; 10.6 mi SE. of Green Cove; 300 ft E. of bridge; 140 ft E. of barn; 200 ft W. of house; 150 ft S. of rd.; in ledge; standard tablet stamped "M 13 1934"	2895.342
Reference mark; 130 ft N. of tablet; on ledge; chiseled square	2898.32
U.E., Feeze Branch of Helton Creek, 1.1 mi NE. of; 0.9 mi SW. of Wolf Knob School; 40 ft E. of rd. fork; 40 ft N. of house; 5 ft N. of bridge; 10 ft S. of rd.; on ledge; chiseled square	3080.04

LINE 5.

By A. Lee Moore, 1934; Books B5839-40

U.E., Mouth of Cabin Creek, 0.7 mi N. of; 60 ft NE. of bridge; 35 ft SE. of rd.; 25 ft N. of house; on ledge; chiseled square	3275.67
U.E., Mouth of Cabin Creek, 1.2 mi N. of; 140 ft W. of intersection of Highway 749; 50 ft NW. of bridge; on ledge; chiseled square	3391.38
U.E., Mouth of Cabin Creek, 2.0 mi N. of; 350 ft N. of rd. fork at ford; 240 ft SE. of house; at foot of trail up to Massies Gap; on boulder; chiseled square	3678.20
U.E., Mouth of Cabin Creek, 2.5 mi N. of; on trail to Massies Gap; 150 ft S. of timberline; 20 ft E. of trail; in pasture; on ledge; chiseled square	4026.32
U.E., Massies Gap, 800 ft W. of; 3.6 mi N. of mouth of Cabin Creek; 70 ft S. of T-fence and draw bars; on ledge; chiseled square	4626.85
U.E., Massies Gap; top of concrete foundation of scales	4871.81
	NGVD 29 Elevations
Massies Gap; near SW. end of Wilburn Ridge; on low rocky cliff; 1.0 mi S. of E. end of Mount Rogers and 0.7 mi N. of pinnacle on Haw Orchard Mountain; 560 ft W. of cattle scales; 30 ft E. of fenceline; in rock ledge; standard tablet stamped "M 13 H 1934"	4908.444
Reference mark; 130 ft W. of tablet; on ledge; chiseled square	4905.46
U.E., Massies Gap, 1.4 mi N. of; on ledge in old railroad grade; chiseled square	4860.52
U.E., Pine Mountain, 1.2 mi S. of; 250 ft W. of Wilson Creek; 110 ft S. of old shack; 45 ft E. of stable on railroad grade; on ledge; chiseled square	4608.06
U.E., Pine Mountain, at flag on top of; 4.9 mi W., thence 2.7 mi S. of Trout Dale; chiseled square	5083.30
U.E., Pine Mountain, in gap on; at head of trail N. to Lewis Fork of Fox Creek; on ledge; chiseled square	4998.31

LINE 5 (Cont'd)Feet

Trout Dale, 4.9 mi W. of, thence 1.4 mi S.; 15 ft N. and 40 ft E. of ford crossing Lewis Fork of Fox Creek; 15 ft N. and 20 ft E. of old gate; 10 ft E. of old logging rade; in rock outcrop; standard tablet stamped "TT 14 H 1934"	4097.538
Reference mark; 20 ft E. of tablet; on ledge; chiseled square	4095.26
U.E., Trout Dale, 4.9 mi W. of, thence 0.7 mi S.; 60 ft NW. of house; on E. side of rd.; on ledge; chiseled square	3790.69
U.E., Trout Dale, 4.9 mi W. of; 320 ft SW. of fork of rd. up Lewis Fork of Fox Creek; 110 ft S. of Highway 25; on ledge; chiseled square	3581.86
U.E., Trout Dale, 3.9 mi W. of; 30 ft NE. of rd. fork N.; 30 ft N. of Highway 25; on ledge; chiseled square	3437.81

LINE 6.

By A. Lee Moore, 1934; Books B5839-40

U.E., Green Cove, 4.3 mi E. of, thence 1.1 mi S. down Mud Creek; 60 ft S. of trail E.; 50 ft W. of rd.; on sharp ridge; in ledge; chiseled square	3664.76
U.E., Green Cove, 4.3 mi E. of, thence 2.2 mi S.; 120 ft S. of I-rd. E.; 20 ft W. of rd.; on large boulder; chiseled square	3271.20
U.E., Mud Creek, 0.5 mi (N.) above mouth of; 4.3 mi E., thence 2.8 mi S. of Green Cove; 230 ft S. of I-rd. E.; 200 ft N. of house; 20 ft E. of Mud Creek; 50 ft W. of rd.; on large rock; chiseled square	3145.84
Horse Creek; near mouth of Mud Fork; 20 ft NE. of rd. forks; near Bill Millers house; in ledge; stem remaining of missing tablet stamped "2954"	2954.556

LINE 7.NGVD 29
Elevations

By A. T. Adams, 1950; Book AV 232

Lansing High School, 2.2 mi N. of, along State Highway 162; 50 ft N. of, and about 5 ft lower than intersection of State Highway 162 with rd. NE.; 60 ft W. of stop sign; 4 ft W. of S. corner fencepost of pasture; in concrete post; standard tablet stamped "21 ATA 2891 1950"	2891.117
Reference mark; 80 ft S. of tablet; on W. side of rd.; on center of W. headwall of concrete culvert; chiseled square	2869.36
Sturgills, 0.6 mi W. of, along State Highway 162; 35 ft W. of intersection of State Highway 162 and rd. NW.; 12 ft NW. of SE. corner fencepost of field; 1 ft SW. of wooden fence; in concrete post; standard tablet stamped "22 ATA 2867 1950"	2867.091