

# NORTH CAROLINA.

## PRIMARY TRAVERSE.

### CAMP BRAGG ARTILLERY FIELD.

Argyle, Buckhorn, Fayetteville, Southern Pines, and Stedman quadrangles.

CUMBERLAND, HOKE, AND MOORE COUNTIES.

The following positions were determined by primary traverse which was run by E. L. McNair, P. W. McMillen, and L. F. Biggs in 1918 and 1919. The work was originally started from and based on United States Geological Survey iron post No. 25, 1905 (Kendall), at Hayne. It follows the Atlantic Coast Line Railroad to Fayetteville thence runs by various roads, trails, and lines cut through brush and timber to the Camp Bragg Artillery Field.

Connection was made near Aberdeen and Southern Pines with 8 stations of the United States Coast and Geodetic Survey precise-traverse line. According to values on approximate North American datum, received on August 9, 1919, the United States Coast and Geodetic Survey values were 0.28'' greater in latitude and 3.45'' greater in longitude, and these corrections have been applied to reduce the original Geological Survey values to approximate North American datum.

The Camp Bragg maps, scale 1:10,000, were projected on the old datum.

### ARGYLE QUADRANGLE.

Along highways. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fert.
Copper nail in root of wild-cherry tree, painted "U. S. P. T. 6".....	35 06 41.74	79 00 09.75	2,398
Copper nail in root of gum tree, 20 feet south of second-class cross-road, painted "U. S. P. T. 7".....	35 06 56.38	79 00 45.87	3,347
Copper nail in root of persimmon tree, 12 feet northeast of road, painted "U. S. P. T. 8".....	35 07 14.14	79 01 14.47	2,980
Fayetteville, 10 miles northwest of, 200 feet west of 10-mile post, 15 feet south of road; iron post stamped "Prim. Trav. Sta. No. 8, 1918, Mac. Elev. 322 feet".....	35 07 16.57	79 01 43.81	2,450
Copper nail in end of log, 40 feet west of road to north, 25 feet west of mail box, painted "U. S. P. T. 9".....	35 07 24.19	79 02 19.45	3,060
Copper nail in root of oak stump, 12 feet west and 10 feet south of T road south, at 5 mail boxes, 3 feet east of pine tree, painted "U. S. P. T. 10".....	35 07 23.34	79 02 46.08	2,215
Copper nail in root of oak tree, near house on north side of road, 10 feet northeast of road, 3 feet south of tree, painted "U. S. P. T. 11".....	35 07 41.27	79 03 18.21	3,226
Fayetteville, 12 miles northwest of, 15 feet north of road, 15 feet west of pine tree, painted "U. S. P. B. M."; iron post stamped "Prim. Trav. Sta. No. 9, 1918, Mac. Elev. 354" feet.....	35 07 50.08	79 03 27.25	1,162
Copper nail in hub, 1 foot north of large sycamore tree, painted "U. S. P. T. 12".....	35 08 00.86	79 03 55.48	2,587

## ARGYLE QUADRANGLE—Continued.

Along highways. (By E. L. McNair in 1918.)—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Copper nail in root of small sycamore tree, painted "U. S. P. T. 13"...	35 08 05.59	79 04 33.16	3,167
Copper nail in top of pine stump, 12 feet north of road, 18 feet south of pine tree, painted "U. S. P. T. 14".....	35 08 05.40	79 05 06.77	2,792
Cumberland-Hoke county line, 1.1 miles east of, 18 feet north of road, in edge of woods, 10 feet west of oak tree, painted "U. S. P. B. M."; iron post stamped "Prim. Trav. Sta. No. 10, Mac. Elev. 360 feet".....	35 08 06.07	79 05 32.34	2,124
Copper nail in top of oak stump, 15 feet north of road, 2 feet south- west of oak tree, painted "U. S. P. T. 15".....	35 07 51.18	79 06 04.74	3,084
Copper nail in root of oak tree, 15 feet northwest of crossroads, tree painted "U. S. P. T. 16".....	35 07 30.24	79 06 27.64	2,846
Copper nail in root of pine stump, 8 feet southwest of road, 6 feet west of gum tree, painted "U. S. P. T. 17".....	35 07 20.87	79 06 56.14	2,551
Cumberland-Hoke county line, edge of field, on bank of creek, 900 feet distant from A. McFadyen's house; rough stone post 7 inches square, projecting 8 inches above surface.....	35 07 32.26	79 06 47.88	.....
Longstreet Church, 240 feet east of, 20 feet north of road; iron post stamped "Prim. Trav. Sta. No. 11, 1918, Mac. Elev. 388 feet." Azimuth to pointed top of Graham monument in cemetery, 450 feet distant, 87° 02' 15".....	35 07 19.02	79 07 10.51	.....
Copper nail in root of dogwood tree, 8 feet east of road, 0.5 mile north of Longstreet Church, painted "U. S. P. T. 18".....	35 07 44.94	79 07 10.19	2,621
Crossroads.....	35 07 59.62	79 06 60.59	1,685
Longstreet Church, 1 mile north of, 15 feet west of road, in root of pine stump, painted "U. S. P. T. 19"; copper nail.....	35 08 11.09	79 06 58.67	1,170
Longstreet Church, 1.7 miles north of, 1,000 feet northeast of negro cabin, 6 feet west of road, tree on east side of road is painted "U. S. P. B. M."; iron post stamped "Prim. Trav. Sta. No. 12, 1918, Mac. Elev. 378 feet".....	35 08 32.76	79 06 46.55	2,412
Crossroads.....	35 08 35.64	79 06 44.00	360
Copper nail in root of pine stump, 20 feet north of road, 8 feet north- east of oak tree, painted "U. S. P. T. 20".....	35 08 57.29	79 06 39.33	2,223
Copper nail in root of dead pine tree, 6 feet west of road, painted "U. S. P. T. 21".....	35 09 24.21	79 06 37.89	2,728
Longstreet Church, 3 miles north of, 1,200 feet east of N. D. Black's house, 40 feet southeast from forks; iron post stamped "Prim. Trav. Sta. No. 13, 1918, Mac. Elev. 271 feet." Azimuth to west edge of chimney on west end of N. D. Black's house, 135° 50' 00".....	35 09 48.56	79 06 46.90	2,575
Crossroads near N. D. Black's house.....	35 09 50.92	79 06 28.95	1,510
Copper nail in root of pine tree, 5 feet south of road, painted "U. S. P. T. 22".....	35 09 53.16	79 06 18.56	889
Manchester, 6 miles west of, road opposite 6-mile post.....	35 10 00.46	79 06 03.54	1,450
Copper nail in root of pine tree, 5 feet south of road, painted "U. S. P. T. 23".....	35 10 07.28	79 05 48.32	1,442
Manchester, 5.6 miles west of, on Little River road, 530 feet west of a creek crossing, 160 feet from frame house, 10 feet north of road; iron post stamped "Prim. Trav. Sta. No. 14, 1918, Mac. Elev. 206 feet".....	35 10 12.85	79 05 21.79	2,274
Copper nail in pine stump, 200 feet easterly from small creek, 180 feet west of deserted house, 7 feet south of road, in oak tree, painted "U. S. P. T. 24".....	35 10 27.02	79 04 52.47	2,823
Copper nail in root of oak tree, near forks, tree painted "U. S. P. T. 25".....	35 10 31.84	79 04 25.47	2,293
Copper nail in root of double oak tree, on north side of road, tree painted "U. S. P. T. 26".....	35 10 40.56	79 03 56.68	2,548
Copper nail in root of old pine stump, on south side of road, 8 feet west of pine tree, painted "U. S. P. T. 27".....	35 10 51.10	79 03 24.40	2,884
Manchester, 2.75 miles west of, 380 feet west of creek crossing, 12 feet north of road, on bank, opposite two-story white house 250 feet to the south; iron post stamped "Prim. Trav. Sta. No. 15, 1918, Mac. Elev. 184 feet".....	35 10 48.02	79 02 55.00	2,460
Copper nail in root of oak tree, 10 feet south of road near forks, painted "U. S. P. T. 28".....	35 10 42.37	79 02 21.54	2,836
Copper nail in root of pine tree, 10 feet north of road, painted "U. S. P. T. 29".....	35 10 37.52	79 01 52.82	2,433
Copper nail in root of oak tree, 750 feet east of Monroe bridge, at top of hill at forks, tree painted "U. S. P. T. 30".....	35 10 35.48	79 01 25.64	2,265
Manchester, 0.7 mile southwest of, at right angle in road, 12 feet southwest from entrance to farm buildings; iron post stamped "Prim. Trav. Sta. No. 16, 1918, Mac. Elev. 178 feet".....	35 11 03.50	79 00 59.03	3,601
Manchester station, 500 feet west of, in root of pine tree; copper nail, painted "U. S. P. T. 31".....	35 11 16.12	79 00 22.52	3,283
Manchester station, road crossing at.....	35 11 18.44	79 00 17.44	480
Manchester, 0.5 mile southeast of, near section house, 20 feet east of railroad, 60 feet southeast of crossing at tool house; iron post stamped "Prim. Trav. Sta. No. 17, 1918, Mac. Elev. 190 feet." Azimuth to pole on top of water tank, 156° 04' 15".....	35 10 55.20	79 00 04.63	2,579
U. S. C. & G. S. value (not final).....	35 10 55.26	79 00 04.48	.....

## ARGYLE QUADRANGLE—Continued.

Along highways.

Station.	Latitude.	Longitude.	Distance between stations.
Cotton gin, 150 feet southwest of, south of road, in root of dead tree; copper nail, tree painted "U. S. P. T. 54".....	35 04 54.91	79 00 19.85	Feet.
Two nail boxes, 300 feet east of forks, 9 feet south of road, in root of oak tree; copper nail, tree painted "U. S. P. T. 55".....	35 05 02.06	79 01 06.84	3,972
Fayetteville, 8.5 miles west of, 300 feet west of Bennett's Mill road, near northwest corner of Red Hill Church (colored); iron post stamped "Prim. Trav. Sta. No. 23, 1918, Mac. Elev. 208 feet".....	35 05 00.88	79 01 22.65	1,320
Odom and Sparks's farm house, 50 feet southwest of, in root of oak tree, north of road; copper nail, tree painted "U. S. P. T. 56".....	35 05 11.89	79 02 01.69	3,429
House, 120 feet southeast of, on north side of road, beside barnyard fence, in root of oak tree; copper nail, tree painted "U. S. P. T. 57".....	35 05 28.51	79 02 38.03	3,455
Deserted house, 60 feet south of, in root of oak tree, north of road; copper nail, tree painted "U. S. P. T. 58".....	35 05 33.33	79 03 09.49	2,659
Bones Creek, 1 mile west of, 15 feet north of road, 300 feet southwest of small frame house; iron post stamped "Prim. Trav. Sta. No. 24, 1918, Mac. Elev. 284 feet".....	35 05 38.04	79 03 49.07	3,324
Frame house in cultivated field, 250 feet south of, in root of oak, on south side of road; copper nail, tree painted "U. S. P. T. 59".....	35 05 41.90	79 04 23.60	2,897
At forks, 20 feet north of road, in root of oak tree; copper nail, tree painted "U. S. P. T. 60".....	35 05 48.34	79 04 54.45	2,644
Road, 12 feet north of, in root of oak tree, tree painted "U. S. P. T. 61"; copper nail.....	35 05 53.80	79 05 27.13	2,771
Cumberland-Hoke county line, 220 feet west of Little Rockfish Creek, 10 feet north of road, 10 feet southeast of dead pine stub painted "U. S. P. B. M."; iron post stamped "Prim. Trav. Sta. No. 25, 1918, Mac. Elev. 233 feet".....	35 05 56.18	79 06 01.50	2,867
Old road, just south of, 20 feet north of present road, 4 feet northwest of dead pine tree painted "U. S. P. T. 62"; copper nail in pine stake	35 06 04.75	79 06 39.35	3,262
Longstreet, 2 miles south of, on road to Raeford, 25 feet south and 10 feet west of a crossroad; iron post stamped "Prim. Trav. Sta. No. 26, 1918, Mac. Elev. 355 feet".....	35 06 15.13	79 07 18.83	3,444
Road, 16 feet east of, in root of oak tree, painted "U. S. P. T. 63"; copper nail.....	35 06 39.63	79 07 18.86	2,478
Road, 15 feet east of, in top of pine stump 1 foot high; copper nail, painted "U. S. B. M. 378.9 feet P. T".....	35 07 29.61	79 01 08.72	.....
Road, on north side of; copper nail, painted "U. S. B. M. 340.6 feet P. T".....	35 07 54.08	79 01 05.44	2,488
Oak tree, near, in oak stub; copper nail, painted "U. S. B. M. 282.2".....	35 08 11.88	79 00 52.71	2,088
Crossroads, 35 feet east of, pine tree, painted "332.9 feet".....	35 08 04.08	79 00 36.07	1,594
Road, 15 feet east of, in oak stub, near oak tree, painted "U. S. B. M. 332.7"; copper nail.....	35 08 12.00	79 00 33.89	825
Tank Hill, 300 feet east of reservoir, 350 feet southeast of wooden water tank, 1 mile southwest from headquarters, 6 feet south of tree, painted "U. S. P. B. M. 368.1"; iron post stamped "Prim. Trav. Sta. No. 27, 1918, Mac.".....	35 08 23.15	79 00 33.09	1,128
Road, on south edge of, near oak tree, painted "U. S. B. M. 336.5" in oak stub; copper nail.....	35 08 30.60	79 00 10.93	1,990
Road, south of, 100 feet north of house, in root of cedar tree painted "U. S. P. T. 69"; copper nail.....	35 10 22.32	79 00 52.06	.....
Road, south of, 1.5 feet east of pine tree painted "U. S. P. T. 70," in hub; copper nail.....	35 10 04.25	79 00 25.71	2,851
Road, south of, near tree painted "U. S. P. T. 71," in oak stub 1 foot high; copper nail.....	35 09 42.17	79 00 07.63	2,689

## From Longstreet Church along highways to Montrose.

Longstreet Church, 0.5 mile west of, 15 feet south of road, 85 feet west of small stream, in root of pine tree painted "U. S. P. T. 81"; wire nail.....	35 06 21.99	79 07 52.84	.....
Longstreet Church, 1 mile west of, 20 feet north of road, at dim forks, in root of oak tree painted "U. S. P. T. 82"; wire nail.....	35 06 27.58	79 08 19.78	2,309
Longstreet Church, 1.5 miles west of, 15 feet south of old road, 600 feet east of creek, in root of pine tree painted "U. S. P. T. 83"; wire nail.....	35 06 32.56	79 08 52.82	2,794
Longstreet Church, 2.5 miles west of, on Morganton road, 2,570 feet west of creek, 2.5 miles east of battle field, 15 feet south of road; iron post stamped "Prim. Trav. Sta. No. 28, 1918, Mac. Elev. 336 feet." Azimuth to nail in top of small oak stump distant 706.5 feet, 119° 10' 15".....	35 06 41.24	79 09 29.68	3,186
Longstreet Church, 3 miles west of, 12 feet north of road, in root of oak tree painted "U. S. P. T. 84"; wire nail.....	35 06 50.92	79 10 06.08	3,178
Longstreet Church, 3.5 miles west of, 12 feet north of road, in root of oak tree painted "U. S. P. T. 85"; copper nail.....	35 06 57.27	79 10 34.57	2,452
Longstreet Church, 4 miles west of, in center of road, 23 feet northeast to pine tree, in pine root painted "U. S. P. T. 86"; copper nail.....	35 07 04.71	79 11 09.42	2,995
Longstreet Church, 4.5 miles west of, 200 feet southwest from frame house, near forks of road, 2 feet north of oak tree painted "U. S. P. B. M."; iron post stamped "Prim. Trav. Sta. No. 29, 1918, Mac. Elev. 439 feet".....	35 07 07.06	79 11 30.17	1,741

## ARGYLE QUADRANGLE—Continued.

From Longstreet Church along highways to Montrose—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fet.</i>
Forks of road, 60 feet west of, in root of pine tree, painted "U. S. P. T. 87"; copper nail.....	35 07 10.55	79 11 56.23	2,193
Mr. Blue's residence, 30 feet southwest of yard gate to, 18 feet south of mail box No. 32, mail box painted "U. S. P. T. 88," in root of oak tree; copper nail.....	35 06 58.51	79 12 19.79	2,304
Mr. Blue's residence, 3,000 feet west of, 7 feet southeast of road, 1 foot northwest of dead tree, painted "U. S. P. T. 89"; copper nail in hub.....	35 06 57.10	79 12 54.51	2,888
Rae ford, 10 miles north of, on west side of Rae ford-Vass road, at junction with road northeast to Battlefield Farm, 25 feet southwest of two mail boxes; iron post stamped "Prim. Trav. Sta. No. 30, 1918, Mac. Elev. 406 feet".....	35 06 35.06	79 13 34.18	3,979
Iron post No. 30, 0.5 mile southwest of, 12 feet west of road, in root of dead pine stub 15 feet high, painted "U. S. P. T. 90"; copper nail.....	35 06 09.34	79 13 41.66	2,674
Iron post No. 30, 1 mile southwest of, 18 feet east of road, in root of small oak tree, painted "U. S. P. T. 91"; copper nail.....	35 05 44.19	79 13 46.38	2,573
Rae ford, 8 miles north of, 12 feet south and 17 feet west of junction of Rae ford-Vass road and chicken road, locally known as Campbell's crossroads; iron post stamped "Prim. Trav. Sta. No. 31, 1918, Mac. Elev. 417 feet".....	35 05 13.64	79 13 53.44	3,143
Iron post No. 31, 0.5 mile northwest of, 15 feet east of road, in root of pine tree, painted "U. S. P. T. 92"; copper nail.....	35 05 19.72	79 14 0.58	2,339
Two-story white house on bank, 200 feet west of, 20 feet south of road, in root of oak tree painted "T. B. M. 318 P. T."; copper nail.....	35 05 23.33	79 14 58.29	3,154

## Along highways. (By E. L. McNair in 1918.)

Old Yadkin road, 10 feet south of, approximately between Johnson Mountain and McPherson Mountain, near tree painted "U. S. B. M."; iron post stamped "Prim. Trav. Sta. No. 41, 1918, Mac. Elev. 466 feet".....	35 08 33.13	79 14 54.90	.....
Rae ford-Vass road, 30 feet west of, 15 feet north of crossing of old Morganton road; iron post stamped "Prim. Trav. Sta. No. 42, 1918, Mac. Elev. 426 feet".....	35 07 43.24	79 13 36.94	.....

## From bench mark 26 to bench mark 31. (By L. F. Biggs in 1918.)

Iron bench mark, 1.25 mile southeast of, 10 feet east of road, 15 feet west of oak tree painted "U. S. B. M."; iron bench mark stamped "Prim. Trav. Sta. No. 44, 1918, Mac.".....	35 05 06.91	79 07 11.35	.....
In base of 18-inch oak tree, 20 feet east of road, at crossroads in front of unfinished church, tree painted "U. S. P. T. 235"; copper nail.....	35 04 30.77	79 07 01.65	.....
Crossing of Chicken road with Rae ford-Longstreet Church road, 310 feet south of, on west edge of road; iron post stamped "Prim. Trav. Sta. No. 45, 1918, Mac. Elev. 294 feet".....	35 03 48.02	79 06 51.16	.....
On south side of Rae ford road, opposite road north to Longstreet Church; iron post stamped "Prim. Trav. Sta. No. 46, 1918, Mac. Elev. 241 feet".....	35 01 52.96	79 07 33.23	.....
Old Plank road, 10 feet north of, 50 feet east of forks; iron post stamped "Prim. Trav. Sta. No. 47, 1918. Elev. 359 feet".....	35 02 44.05	79 09 57.63	.....
Road, on south edge of, east of creek, 6 feet northwest of tree painted "U. S. P. B. M."; iron post stamped "Prim. Trav. Sta. No. 48, 1918. Elev. 295 feet".....	35 03 04.01	79 12 06.47	.....
Rae ford-Vass road and Old Center plank road, 25 feet northwest of the intersection of; iron bench mark stamped "Prim. Trav. Sta. No. 49, 1918, B. Elev. 336 feet".....	35 03 23.21	79 13 54.49	.....

## From bench mark 13 to bench mark 42.

Crossroads, 30 feet northwest of, 600 feet east of main crossroads; iron bench mark stamped "Prim. Trav. Sta. No. 50, 1918, B. Elev. 302 feet".....	35 09 37.96	79 08 46.91	.....
Rae ford-Vass road, on east edge of, 0.5 mile south of Little River; iron post stamped "Prim. Trav. Sta. No. 51, 1918, B".....	35 11 03.07	79 11 00.71	.....
Forks of road, 300 feet north of, 20 feet east of road; iron post stamped "Prim. Trav. Sta. No. 52, 1918, B".....	35 09 54.64	79 12 44.58	.....

## ARGYLE QUADRANGLE—Continued.

From station 261 to station 459. (By P. W. McMillen.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road, 10 feet east of, 35 feet north of forks; northwest of painted tree; iron bench mark stamped "Prim. Trav. Sta. No. 400, 1918, M" .....	35 07 50.75	79 01 41.57	.....

From station 468 to U. S. primary traverse station 69. (By P. W. McMillen.)

Monroe's bridge, 1.5 miles southeast of, at top of hill, east edge of road at forks, Elev. 265; iron post stamped "Prim. Trav. Sta. No. 401, 1918" .....	35 09 33.45	79 01 23.24	.....
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From U. S. primary traverse station 209 to U. S. primary traverse station 14. (By L. F. Biggs.)

Longstreet Church, 3 miles west and 1 mile south of, at T road north; iron post stamped "Prim. Trav. Sta. No. 60, 1918, B. Elev. 290.5" .....	35 06 45.22	79 04 43.56	.....
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From U. S. primary traverse station 10 to U. S. primary traverse station 56. (By L. F. Biggs.)

Longstreet Church, 5 miles east and 12 miles south of, 5 feet east of Yadkin road, 150 feet west of house; iron post stamped "Prim. Trav. Sta. No. 58, 1918, B. Elev. 351" .....	35 06 35.00	79 02 35.34	.....
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From U. S. primary traverse station 7 to U. S. primary traverse station 54. (By L. F. Biggs.)

Fayetteville, 9 miles northwest of, 1 mile south of Yadkin road, 5 feet east of road near southern boundary of Camp Bragg, at forks; iron post stamped "Prim. Trav. Sta. No. 59, 1918, B" .....	35 06 05.33	79 00 41.63	.....
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From bench mark 11 to U. S. primary traverse station 86. (By P. W. McMillen.)

Longstreet Church, 2.5 miles west of, at northwest corner of crossroads; iron bench mark stamped "Prim. Trav. Sta. No. 403, 1918, M" .....	35 07 21.84	79 08 44.65	.....
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From U. S. primary traverse station 404 to iron bench mark 45. (By P. W. McMillen.)

Iron bench mark stamped "Prim. Trav. Sta. No. 404, 1918, M" ....	35 05 05.94	79 04 25.76	.....
Chicken road crossing on Little Rockfish Creek, 1 mile east of, at northwest corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 405, 1918, M" .....	35 03 31.26	79 04 21.85	.....

From primary traverse station 28 to primary traverse station 24. (By P. W. McMillen.)

R. J. Howard's store, 100 feet south of, on west edge of road at forks; iron post stamped "Prim. Trav. Sta. No. 406, 1918, M" .....	35 10 02.28	79 03 14.57	.....
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From bench mark 50 to primary traverse station 408. (By P. W. McMillen.)

Longstreet Church, 1.6 miles northwest of, on second-class road leading northwest from cemetery, at top of ridge, in road forks; iron post stamped "Prim. Trav. Sta. No. 407, 1918, M. Elev. 253 feet" .....	35 08 22.50	79 08 23.50	.....
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**ARGYLE QUADRANGLE**—Continued.

From bench mark 45 to bench mark 31. (By L. F. Biggs.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Abandoned house, near; iron post stamped "Prim. Trav. Sta. No. 292, 1918, B".....	35 04 10.98	79 08 56.86	.....
Stream crossing, 90 feet west of, on south side of road at forks; iron post stamped "Prim. Trav. Sta. No. 54, 1918, B. Elev. 305".....	35 04 24.91	79 10 45.57	.....

From primary traverse station 233 to primary traverse station 91. (By L. F. Biggs.)

Angus Ray farm, 60 feet northwest of, at T road north to, 40 feet north of road; post stamped "Prim. Trav. Sta. No. 55, 1918, B. Elev. 324".....	35 06 00.92	79 10 14.46	.....
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From primary traverse station 241 to bench mark 49. (By L. F. Biggs.)

Old house, 250 feet northeast of, 10 feet southwest of oak painted "U. S. B. M."; iron post stamped "Prim. Trav. Sta. No. 65, 1918, Mac".....	35 01 46.74	79 10 53.93	.....
Rae ford, 5 miles north of, 10 feet west of road; iron post stamped "Prim. Trav. Sta. No. 66, 1918, B".....	35 02 18.34	79 14 00.67	.....

From primary traverse station 701 to primary traverse station 741. (By L. F. Biggs.)

R. H. Rollins' house, 1,000 feet southwest of, 450 feet north of James Creek, 20 feet west of road; iron post stamped "Prim. Trav. Sta. No. 69, 1918, B".....	35 12 17.17	79 15 20.64	.....
Archie McNeal's house, 100 feet southwest of, on north side of road; iron post stamped "Prim. Trav. Sta. No. 70, 1918, B".....	35 12 04.09	79 13 25.31	.....

From bench mark 68 to bench mark 51. (By L. F. Biggs.)

Crossroads at northwest corner of Jim Burns's field, 20 feet southeast of, iron post stamped "Prim. Trav. Sta. No. 68, 1918, B".....	35 10 51.84	79 14 27.13	.....
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**BUCKHORN QUADRANGLE.**

From bench mark 25, 1905, at Hayne, west to Autreyville. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between station.
	° ' "	° ' "	<i>Feet.</i>
Hayne, 1 mile east of, at southwest corner of Bethel Church; iron post stamped "Prim. Trav. Sta. No. 25, 1905, K" (Bull. 310, p. 63)....	34 58 44.58	78 33 15.85	.....
Public school, crossroads at.....	34 58 38.18	78 33 37.84	1,942

**Along highways.**

Bridge, center of.....	34 58 37.10	78 34 08.29	2,540
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**Along Atlantic Coast Line R. R.**

Road crossing on Atlantic Coast Line R. R.....	34 58 32.15	78 34 30.87	1,921
Hayne station, 60 feet west of crossing at; iron post stamped "Prim. Trav. Sta. No. 1, 1918, Mac." Azimuth to switch stand at west end of siding, 110° 53' 30".....	34 58 49.85	78 35 25.09	4,818
Hayne station, crossing 1 mile west of.....	34 59 07.00	78 36 19.77	4,870
Milepost 67, crossing at.....	34 59 26.79	78 37 23.47	5,665
Autreyville, crossing at.....	34 59 48.21	78 38 32.39	6,130
Autreyville, 0.5 mile west of crossing at.....	34 59 57.88	78 39 03.48	2,764

## FAYETTEVILLE QUADRANGLE.

Along Atlantic Coast Line R. R. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Vauder station, crossing 690 feet east of .....	35 01 35.10	78 46 11.35	10,360
Vauder station, crossing 0.5 mile west of .....	35 01 41.31	78 46 39.57	2,429
Vauder station, 1.25 miles west of, 45 feet west of crossing at store, 20 feet south of track, on bank; iron post stamped "Prim. Trav. Sta. No. 3, 1918, Mac." Azimuth to water tower in Fayetteville, 105° 55' 00" .....	35 01 51.97	78 47 28.94	4,245
Milepost 78, crossing 2,000 feet east of .....	35 02 01.02	78 48 09.06	3,461
Milepost 78, farm-road crossing 2,300 feet west of .....	35 02 12.40	78 48 60.75	4,450
Milepost 79, second-class crossing near .....	35 02 19.00	78 49 30.72	2,581
Milepost 80, crossing 500 feet east of .....	35 02 32.09	78 50 30.20	5,120
Cape Fear River, bridge over, crossing east of .....	35 02 42.51	78 51 17.54	4,074
Cape Fear River, bridge over, center of track at middle pier .....	35 02 45.22	78 51 31.58	1,200
Fayetteville, intersection of Russell and Dick streets .....	35 02 59.88	78 52 40.45	5,915
Fayetteville station (Atlantic Coast Line R. R.), 46.4 feet east from southeast corner of, in line with south end of building, 2.5 feet north of concrete sidewalk; iron post stamped "Prim. Trav. Sta. No. 4, 1918. Elev. 102 feet." Azimuth to Methodist Church spire, 288° 55' 55" .....	35 03 17.29	78 53 05.37	2,718
U. S. C. & G. S. value (not final) .....	35 03 17.28	78 53 05.08	.....

## Along highways.

Fayetteville, on south side of Hay Street, in western part of town; center of iron standpipe .....	35 03 22.70	78 53 56.65	4,298
Fayetteville, 2 miles northwest of, on Carthage road; T roads southwest .....	35 04 07.24	78 55 13.45	7,313
Fayetteville, 2.5 miles northwest of, on Carthage road; lane northeast .....	35 04 31.37	78 55 55.75	4,280
Fayetteville, 3.5 miles northwest of, on Carthage road, at forks, 8 feet east of signpost; iron post stamped "Prim. Trav. Sta. No. 5, 1918, Mac." Azimuth to left edge of brick chimney on west end of house, 56° 24' 40" .....	35 04 40.18	78 56 21.86	2,345
Copper nail in root of gum tree, on northeast side of road, at angle in road, painted "U. S. P. T. 1" .....	35 04 46.00	78 56 46.85	2,159
Copper nail in top of oak stub, 8 feet south of pine tree, painted "U. S. P. T. 2" .....	35 04 47.21	78 57 25.34	3,205
Beaver Creek, center of crossing .....	35 04 59.67	78 58 09.01	3,842
Fayetteville, 5.5 miles northwest of, 1,650 feet west of Beaver Creek, at top of hill, 12 feet south of road, 7 feet west of persimmon tree; iron post stamped "Prim. Trav. Sta. No. 6, 1918, Mac." Azimuth to east edge of chimney distant 800 feet, 171° 13' 25" .....	35 05 03.34	78 58 28.28	1,643
Copper nail in root of walnut tree, 15 feet south of road, 250 feet east of white house, tree painted "U. S. P. T. 3" .....	35 05 17.90	78 58 52.97	2,526
Copper nail in root of oak tree, 12 feet north of road, painted "U. S. P. T. 4" .....	35 05 39.62	78 59 12.45	2,728
Copper nail in root of oak tree, 17 feet north of road, opposite corner of fence, painted "U. S. P. T. 5" .....	35 06 06.72	78 59 29.87	3,098
Fayetteville, 7.7 miles west of, 23 feet southwest of center of road, 14 feet north from persimmon tree, 25 feet south from second-class crossroad; iron post stamped "Prim. Trav. Sta. No. 7, 1918, Mac. Elev. 282 feet" .....	35 06 25.08	78 59 49.21	2,454

## Along highways. (By E. L. McNair in 1918-19.)

Railroad track opposite whistle post, painted "U. S. P. T. 32" .....	35 10 31.06	78 59 51.86	.....
Second-class crossing, 30 feet south of, in telegraph pole; railroad spike, painted "U. S. P. T. 33" and "B. M. 229" .....	35 10 12.10	78 59 26.61	2,839
Pine tree, 6 feet southeast to, in root of pine tree; copper nail, painted "U. S. P. T. 34" .....	35 10 01.36	78 59 04.49	2,133
Manchester, 2.5 miles southeast of, 50 feet northeast of road crossing, on bank, about 8 feet above track; iron post stamped "Prim. Trav. Sta. No. 18, 1918, Mac. Elev. 266 feet." Azimuth to top of pole on tower of barn, 206° 37' 00" .....	35 09 47.78	78 58 30.00	3,176
Manchester, 3 miles southeast of, 2,400 feet southeast of railroad crossing, in root of oak tree; copper nail, painted "U. S. P. T. 35" .....	35 09 26.09	78 58 17.53	2,425
Road, 8 feet east of, in root of oak tree; copper nail, painted "U. S. P. T. 37" .....	35 08 37.95	78 57 58.00	.....
Fayetteville, 4.5 miles northwest of, 14 feet east of road, 200 feet south of crossroads, 450 feet southwest from white house; iron post stamped "Prim. Trav. Sta. No. 19, 1918, Mac." .....	35 08 16.70	78 57 57.49	2,150
Road, 17 feet east of, 100 feet northwest from small house, in root of pine stump; copper nail, small oak tree painted "U. S. P. T. 38" .....	35 07 46.28	78 57 49.84	3,140
Road, 17 feet east of, in root of oak tree painted "U. S. P. T. 39"; spike .....	35 07 21.74	78 57 46.75	2,496

## FAYETTEVILLE QUADRANGLE—Continued.

Along highways. (By E. L. McNair in 1918-19)—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road, 20 feet east of, near picket fence, 12 feet south of gate in front of house, in root of oak tree painted "U. S. P. T. 40"; copper nail.....	35 06 50.89	78 57 41.61	3,148
Road, 12 feet west of, in root of double oak tree, painted "U. S. P. T. 41"; copper nail.....	35 06 25.31	78 57 38.64	2,598
Fayetteville, 2 miles northwest of, east side of road, at hedge and fence row running east; iron post stamped "Prim. Trav. Sta. No. 20, 1918, Mac. Elev. 242 feet".....	35 06 01.33	78 57 29.19	2,550
Public school, 150 feet west of, 30 feet east of road, in root of oak tree, painted "U. S. P. T. 42"; copper nail.....	35 05 34.88	78 57 18.79	2,812
Store, at corner of, on west side of road, in root of large hackberry tree; copper nail, painted "U. S. P. T. 43".....	35 05 07.41	78 56 59.36	3,208

## Along highways.

Fayetteville, 1 mile west of, on south side of Morganton road, in root of elm tree, painted "U. S. P. T. 44" and "T. B. M. 204.7"; copper nail.....	35 03 32.48	78 54 32.84	.....
Road, south of, in root of pine tree, tree painted "U. S. P. T. 45"; copper nail.....	35 03 38.53	78 54 58.86	2,247
Small box sluice, north end of, 5 feet southeast of pine tree, painted "U. S. P. T. 46"; copper nail.....	35 03 48.86	78 55 22.83	2,250
Road, 15 feet south of, near telephone pole, painted "U. S. P. T. 47"; copper nail in stake.....	35 03 48.82	78 55 52.85	2,496
Fayetteville, 3 miles west of, at forks of Chicken and Morganton roads, on top of bank, near signboard between roads; iron post stamped "Prim. Trav. Sta. No. 21, 1918, Mac. Elev. 219 feet".....	35 03 48.93	78 55 58.37	459
Road, 12 feet south of, at edge of cotton field, in root of large gum tree painted "U. S. P. T. 48"; copper nail.....	35 03 54.54	78 56 29.90	2,762
Two mail boxes, tree painted "U. S. P. T. 49".....	35 04 01.26	78 57 01.27	2,613
Road, 15 feet south of, in root of oak tree, painted "U. S. P. T. 50"; copper nail.....	35 04 08.16	78 57 35.17	2,903
Crossroads.....	35 04 15.67	78 57 58.33	2,071
Road, 12 feet north of, 5 feet southeast of pine tree, in small oak stub, painted "U. S. P. T. 51"; copper nail.....	35 04 19.01	78 58 07.89	860
Fayetteville, 5.9 miles west of, 950 feet west of Beaver Creek, on bank, 25 feet north of road, at private road leading to house; iron post stamped "Prim. Trav. Sta. No. 22, 1918, Mac. Elev. 204 feet".....	35 04 29.42	78 58 46.98	3,415
At corrugated-iron road culvert, in west end of pine bank log, painted "U. S. P. T. 52"; copper nail.....	35 04 42.18	78 59 10.86	2,366
Bridge over creek.....	35 04 46.58	78 59 38.85	2,369
Opposite house, 700 feet west of creek, 15 feet north of road, on bank, in root of oak tree; copper nail, tree painted "U. S. P. T. 53".....	35 04 48.28	78 59 46.88	693
Hub on "B" line at crossline 230 (Camp site survey).....	35 08 45.60	78 59 39.75	.....
Crossroads near headquarters, crossing of Monroe road and Pee Dee road.....	35 09 01.15	78 59 17.16	2,447
Oak stump 1 foot high, in top of, near forks, tree painted "U. S. P. T. 63"; copper nail.....	35 09 11.61	78 58 47.92	2,651
Schoolhouse, 75 feet southwest of, in root of oak tree, painted "U. S. P. T. 64"; copper nail.....	35 06 46.68	78 59 43.35	.....
Road, east of, in root of oak tree, painted "U. S. P. T. 65"; copper nail.....	35 07 10.38	78 59 42.40	2,397
Crossroads.....	35 07 22.70	78 59 43.59	1,247
Road, east of, in stump, 18 feet northwest of oak tree painted "U. S. P. T. 66"; copper nail.....	35 07 34.29	78 59 45.06	1,174
Road, north of, in stump, oak tree painted "U. S. P. T. 67"; copper nail.....	35 07 59.20	78 59 37.21	2,602
Bridge, center of.....	35 08 00.75	78 59 36.00	187
Crossroad.....	35 08 11.60	78 59 36.15	1,097
Road, west of, in root of pine tree; copper nail, painted "U. S. P. T. 68".....	35 08 34.96	78 59 33.15	2,373

## Along highways.

Road, northeast of, in root of pine tree, painted "U. S. P. T. 72"; copper nail.....	35 09 21.02	78 59 39.96	.....
Road, 25 feet northeast of, in fence board at gate post, painted "U. S. P. T. 73"; copper nail.....	35 08 39.98	78 58 58.11	.....
Road, northeast of, 6 feet north of hickory tree, in top of stump, painted "U. S. P. T. 74"; copper nail.....	35 08 16.12	78 58 43.01	2,720
Road, 12 feet southwest of, in root of persimmon tree, painted "U. S. P. T. 75"; wire nail.....	35 07 53.05	78 58 26.34	2,713

## FAYETTEVILLE QUADRANGLE—Continued.

## Along highways—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Road, 8 feet southwest of, in root of oak tree, painted "U. S. P. T. 76"; wire nail.....	35 07 31.19	78 58 10.88	<i>Feet.</i> 2,555
Road, east edge of, in pine stump, painted "U. S. P. T. 77"; wire nail.....	35 07 12.42	78 58 00.23	2,093
Road, east of, in front of house, in root of oak tree, painted "U. S. P. T. 78"; wire nail.....	35 06 05.75	78 58 04.01	.....
Mill on Beaver Pond, 200 feet west of, in root of maple tree, painted "U. S. P. T. 79"; wire nail.....	35 06 01.94	78 58 34.89	2,596
Road, north of, in root of persimmon tree, painted "U. S. P. T. 80"; wire nail.....	35 05 43.59	78 58 50.39	2,258

From primary traverse station 38 to primary traverse station 631. (By P. W. McMillen.)

In east end of tie, on south side of pine stump, 75 feet south of road crossing, painted "U. S. P. T."; copper nail.....	31 09 07.58	78 57 41.71	.....
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## SOUTHERN PINES QUADRANGLE.

## Along highways. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
Road, 10 feet north of, 900 feet west of creek, near tree painted "U. S. P. T. 93"; in top of pine stump; copper nail.....	35 05 24.25	79 15 24.37	<i>Feet.</i> .....
Junction of roads, road northwest to Southern Pines, 15 feet south of road, in root of oak tree, painted "T. B. M. 281.3 P. T."; copper nail.....	35 05 22.44	79 15 35.56	943
Raeclord-Vass road, 2.4 miles west of, on top of ridge, 14 feet east of road, near pine stump, painted "U. S. P. B. M. 345.3"; iron post stamped "Prim. Trav. Sta. No. 32, 1918, Mac. Elev. 345 feet".....	35 04 56.55	79 15 57.75	3,202
Road, 12 feet east of, in root of oak tree; copper nail, painted "T. B. M. 317.9 P. T.".....	35 04 31.56	79 16 03.08	2,565
Road, 10 feet west of, in root of oak tree, painted "T. B. M. 317.4 P. T."; copper nail.....	35 04 07.06	79 16 11.31	2,571
Montrose, 4 miles east of, 350 feet south of Sandy Grove Church, 35 feet north and 15 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 33, 1918, Mac. Elev. 306 feet." Azimuth to top of Daniel McCaskill monument 500 feet distant, 201° 12' 45".....	35 03 30.04	79 16 14.86	3,755
Sandy Grove Church, 0.5 mile west of, 20 feet north of road, 480 feet west of Rockfish Creek, in root of oak tree, painted "U. S. P. T. 94"; copper nail.....	35 03 27.72	79 16 44.54	2,480
Sandy Grove Church, 1 mile west of, 10 feet north of road, in root of pine tree, painted "U. S. P. T. 95"; copper nail.....	35 03 32.21	79 17 18.94	2,895
Sandy Grove Church, crossroads 1.25 miles west of.....	35 03 30.34	79 17 25.51	578
Sandy Grove Church, 2 miles west of, 15 feet south of road, in root of pine tree, painted "U. S. P. T. 96"; copper nail.....	35 03 20.95	79 17 58.56	2,907
Montrose, 2 miles east of, 25 feet south of old plank road; iron post stamped "Prim. Trav. Sta. No. 34, 1918, Mac.".....	35 03 14.15	79 18 22.34	2,090
Montrose, 1 mile east of, in root of oak tree, 10 feet north of road, painted "U. S. P. T. 97"; copper nail.....	35 03 05.51	79 18 56.13	2,941
Road, 25 feet north of, in root of dead pine tree, painted "U. S. P. T. 98"; copper nail.....	35 02 58.44	79 19 26.98	2,661
Road, 18 feet north of, in top of oak stub, near tree painted "U. S. P. T. 99"; copper nail.....	35 02 54.67	79 19 50.62	2,010

## From Montrose through Aberdeen to Southern Pines.

Montrose, 1,800 feet north of, 370 feet east of railroad crossing, 18 feet north of crossroads, at corner of sanatorium grounds; iron post stamped "Prim. Trav. Sta. No. 35, 1918, Mac." Azimuth to north edge of most northeasterly chimney on Mr. Maltbie's house, 291° 15' 00".....	35 02 47.19	79 20 13.94	2,071
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## SOUTHERN PINES QUADRANGLE—Continued.

## Along Aberdeen &amp; Rockfish R. R.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Montrose, 1 mile northwest of, road crossing.....	35 03 16.02	79 20 26.87	3,108
Montrose Sanatorium, center of standpipe.....	35 03 31.29	79 20 46.30	2,234
Montrose Sanatorium, 1.25 miles northwest of, road crossing.....	35 04 21.62	79 21 10.45	5,470
Aberdeen, 5 miles southeast of, 30 feet south and 12 feet west from public-road crossing, 15 feet west of a telephone pole; iron post stamped "Prim. Trav. Sta. No. 36, 1918, Mac. Elev. 439 feet."			
Azimuth to sanatorium tower, 328° 16' 45".....	35 05 24.99	79 22 11.79	8,187
Aberdeen, 4 miles southeast of, second-class crossing.....	35 06 03.55	79 23 07.01	6,020
Aberdeen, 3 miles southeast of, second-class crossing.....	35 06 33.04	79 23 12.81	3,020
Aberdeen, 2 miles southeast of, at spur side track, 25 feet northeast of track, in Moore County, 0.25 mile northwest of Moore-Hoke county line; iron post stamped "Prim. Trav. Sta. No. 37, 1918, Mac."			
Azimuth to right-hand edge of more northeasterly of two chimneys on white house 0.75 mile distant, 133° 57' 00".....	35 06 51.31	79 23 20.39	1,952
Second-class road crossing.....	35 07 19.58	79 24 10.91	5,077
Public-road crossing.....	35 07 36.09	79 24 32.37	2,443
Do.....	35 07 54.04	79 24 50.78	2,373

## Along Seaboard Air Line Ry.

Aberdeen, U. S. Coast and Geodetic Survey's primary traverse station "Aberdeen," 1,300 feet northeast of Aberdeen railroad station, on tangent to west rail from south, about 200 meters north of point of tangent of first curve north of Aberdeen, on edge of Sycamore Street, 14.69 meters west of west rail of main line of Seaboard Air Line Ry. Station mark: A standard-disk station mark set in top of a square block of concrete. Reference mark is on opposite side of Sycamore Street, and about 2 meters east of a garage.....	35 08 04.18	79 25 29.84	3,401
Aberdeen, about 1.5 miles northeast of, U. S. Coast and Geodetic Survey precise traverse station Quentin, on prolongation of tangent to the west rail from south, about 200 meters from point of tangent of first curve north of Aberdeen, or first curve north of milepost 227, 10.52 meters east of east rail of Seaboard Air Line Ry. Station mark: A standard-disk station mark set in top of a square block of concrete. Reference mark is on opposite side of railroad from station, 11.29 meters west of west rail of Seaboard Air Line Ry., on edge of bank near cut.....	35 08 51.12	79 24 40.65	6,260
Aberdeen, northeast of, U. S. Coast and Geodetic Survey precise traverse station Quentin A, at north end of second curve north of railroad station at Aberdeen, marked by a 2 by 4 scantling set in concrete on Seaboard Air Line Ry. right of way, on prolongation of tangent to east rail, is about 175 meters south of milepost 227, and 4.415 meters east of east rail. No reference mark.....	35 09 00.86	79 24 36.41	1,046
Aberdeen, northeast of, U. S. Coast and Geodetic Survey precise traverse station Quentin B, about 1 5/8 miles south of Southern Pines railroad station, on Seaboard Air Line Ry. right of way, 500 meters north of milepost 227, 175 meters south of signboard "Southern Pines", on prolongation of tangent to east rail, 10.755 meters west of west rail, at south end of third curve north of Aberdeen. Station mark: A standard-disk station mark set in top of a square block of concrete.....	35 09 22.12	79 24 34.24	2,157
Aberdeen, northeast of, U. S. Coast and Geodetic Survey primary traverse station Quentin C, about 1 3/8 miles south of railroad station Southern Pines, about 80 meters north of signboard "Southern Pines." Station mark: A 2 by 4 scantling set in con- crete on Seaboard Air Line Ry. right of way, on third curve north of Aberdeen railroad station, about 750 meters north of milepost 227, being 15.27 meters west of west rail, about 4.5 meters above same.....	35 09 30.03	79 24 28.93	913
Aberdeen, northeast of, U. S. Coast and Geodetic Survey primary traverse station Quentin D.....	35 09 38.06	79 24 15.40	1,386
Aberdeen, northeast of, U. S. Coast and Geodetic Survey primary traverse station Quentin E.....	35 10 10.54	79 23 56.30	3,646
Aberdeen, northeast of, U. S. Coast and Geodetic Survey primary traverse station Foch A.....	35 10 28.78	79 23 26.65	3,075

## SOUTHERN PINES QUADRANGLE—Continued.

From Southern Pines to bench mark 30. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
Southern Pines, 0.75 mile southeast of, in top of oak stump, 12 feet east of road, near pine tree painted "U. S. P. T. 100"; copper nail	° ' "	° ' "	<i>Feet.</i>
Southern Pines, 1.5 miles southeast of, just south of house painted red, 40 feet northeast of road, in root of walnut tree, tree painted "U. S. P. T. 101"; copper nail	35 10 08.76	79 23 01.03	2,933
Southern Pines, 2.5 miles southeast of, 12 feet south of road, 2 feet east of pine tree painted "U. S. P. T. 102"; in top of small pine stub; copper nail	35 09 45.89	79 22 14.81	4,482
Southern Pines, 3.25 miles southeast of, on road to railroad, near Moore-Hoke county line, 20 feet south of road, near oak tree, iron post stamped: "Prim. Trav. Sta. No. 38, 1918, Mac." Azimuth to water tank at Southern Pines, 121° 37' 00"	35 09 19.84	79 21 18.80	5,344
Frame house, 75 feet southwest of, 35 feet north of road, in root of oak tree, tree painted "U. S. P. T. 103"; copper nail	35 09 07.82	79 20 37.32	3,654
Road, 35 feet north of, 75 feet east of forks, in root of pine tree, tree painted "U. S. P. T. 104"; copper nail	35 09 01.35	79 20 10.08	2,356
Crossroad, 50 feet southeast of, in root of oak tree, tree painted "U. S. P. T. 105"; copper nail	35 08 53.98	79 19 41.39	2,498
Southern Pines 5.4 miles southeast of, at crossing of old graded railroad bed and old Morganton road, on top of embankment; iron post stamped "Prim. Trav. Sta. No. 39, 1918, Mac."	35 08 51.10	79 19 09.81	2,640
Old railroad grade, in top of oak stub 1 foot high, pine stump 25 feet southeast, painted "U. S. P. T. 106"; copper nail	35 08 44.66	79 18 39.25	2,619
Right of way line of old railroad grade, 100 feet northeast of road crossing, 2 feet north of pine tree painted "U. S. P. T. 107" in hub; copper nail	35 09 01.13	79 18 17.72	2,443
East side of north and south road, 30 feet north of old railroad survey, in root of oak tree, tree painted "U. S. P. T. 108"; copper nail	35 09 16.69	79 17 45.01	3,133
Old Yadkin road, north side of, near where old railroad survey line crosses road, 800 feet west of telephone line, near oak tree painted "U. S. P. B. M", iron post stamped "Prim. Trav. Sta. No. 40, 1918, Mac. Elev. 441 feet." Azimuth to water tower at sanatorium, 29° 28' 30"	35 09 25.95	79 17 12.04	2,895
South side of road, 4 feet northwest of tree painted "U. S. P. T. 109", in top of dead stub; copper nail	35 09 26.98	79 16 41.87	2,508
Northeast side of road, in root of pine tree, painted "U. S. P. T. 110"; copper nail	35 09 19.99	79 16 12.37	2,551
South side of road, in root of dead oak tree, painted "U. S. P. T. 111"; copper nail	35 09 11.51	79 15 43.09	2,577
	35 08 52.26	79 15 16.20	2,963

From station 748 to primary traverse station 104. (By L. F. Biggs in 1918.)

Southern Pines, 9 miles southeast of, 1,000 feet north of yellow house, 20 feet north of road, at angle in road; iron post stamped "Prim. Trav. Sta. No. 61, 1918, B"	35 05 59.95	79 16 20.86	.....
Southern Pines, 7 miles southeast of, south side of road, 900 feet northwest of Piney Bottom Creek bridge; iron post stamped "Prim. Trav. Sta. No. 62, 1918, B"	35 06 37.72	79 18 04.05	.....
Southern Pines, 5.7 miles southeast of, on south edge of road, at angle in crossroads; iron post stamped "Prim. Trav. Sta. No. 63, 1918, B. Elev. 405 feet"	35 08 11.11	79 18 48.66	.....
Southern Pines, 6 miles east of, 100 feet west of road forks, north of road; iron post stamped "Prim. Trav. Sta. No. 67, 1918, B"	35 10 20.73	79 17 13.70	.....

From bench mark 37 to primary traverse station 361. (By P. W. McMillen.)

Iron post stamped "Prim. Trav. Sta. No. 408, 1918"	35 06 56.60	79 20 53.74	.....
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From bench mark 36 to station 5493. (By P. W. McMillen.)

Hill View schoolhouse, 60 feet south of, on south edge of road; iron post stamped "Prim. Trav. Sta. No. 409, 1918, M"	35 05 47.29	79 19 23.73	.....
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## SOUTHERN PINES QUADRANGLE—Continued.

From station 824 to station 748.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Chicken road crossing Rockfish Creek, on north edge of road, east side of creek; iron post stamped "Prim. Trav. Sta. No. 410, 1918, M".....	35 04 46.07	79 17 22.71	.....

From primary traverse station 725 to primary traverse station 705. (By L. F. Biggs.)

Mrs. Phillips's ranch house, 0.5 mile east of, 50 feet southeast of bridge over James Creek, on west edge of road; iron post stamped "Prim. Trav. Sta. No. 71, 1918, B".....	35 09 57.36	79 19 44.95	.....
Bridge over James Creek, 100 feet east of, 40 feet north of road, on small knoll; iron post stamped "Prim. Trav. Sta. No. 72, 1918, B".....	35 11 16.19	79 17 33.92	.....

From bench mark 35 to bench mark 66. (By L. F. Biggs.)

On south boundary of range, 10 feet east of boundary stake No. 149; iron post stamped "Prim. Trav. Sta. No. 73, 1918, B".....	35 02 38.16	79 17 15.25	.....
In roof, at boundary stake No. 289, near oak painted "U. S. P. T. 842"; copper nail.....	35 02 29.57	79 14 27.62	.....

From primary traverse station 773 to primary traverse station 754. (By L. F. Biggs.)

Crossroads, 300 feet south of, under power line, 2 feet southeast of P. T. 773; iron post stamped "Prim. Trav. Sta. No. 78, 1918, B".....	35 07 16.02	79 15 44.14	.....
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## STEDMAN QUADRANGLE.

West along Atlantic Coast Line R. R. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Autryville crossing, 1 mile west of.....	35 00 05.63	78 39 30.03	2,343
Autryville crossing, 1.75 miles west of.....	35 00 16.37	78 40 15.73	3,955
Autryville crossing, 2 miles west of.....	35 00 20.89	78 40 36.04	1,752
Stedman station, opposite west end of, across track; iron post stamped "Prim. Trav. Sta. No. 2, 1918, Mac." Azimuth to Methodist Church spire, 184° 30' 45".....	35 00 35.45	78 41 42.78	5,744
Milepost 72, crossing at.....	35 00 45.42	78 42 26.57	3,780
Milepost 73, crossing near.....	35 00 58.82	78 43 27.04	5,210
Milepos 74, crossing 0.25 mile east of.....	35 01 08.56	78 44 11.05	3,791

## TRIANGULATION STATIONS.

Camp Bragg Artillery Field.

CUMBERLAND, HOKE, AND RICHMOND COUNTIES.

Coordinates originally based on a position established by primary traverse run by E. L. McNair, in 1918, from traverse post No. 25, 1905, at Hayne, are in the following descriptions based on U. S. Coast and Geodetic Survey positions near Southern Pines, on approximate North American datum.

A base line 5,500.44 feet in length was measured twice, 7 miles west of Fayetteville. A tested tape 300 feet in length was used under a tension of 20 pounds; corrections were made for sag, temperature, slope, and reduction to sea level.

Azimuths were observed on Polaris near elongation at East Base station and a check azimuth at McPherson station; the mean of the two was adopted for the final computation of positions.

East Base station was connected with primary traverse station No. 53, 1918, and each of the other triangulation stations was connected with the nearest point of the primary traverse net. The field work was done by G. T. Hawkins and E. L. McNair in 1918-19; 0.28" has been added to latitudes and 3.45" added to longitudes to reduce them to the U. S. Coast and Geodetic Survey positions of August 9, 1919.

**BENCH MARK NO. 27, CUMBERLAND COUNTY, N. C.**

About 1.0 mile southwest of main part of camp, on tank hill, 300 feet east of reservoir, 400 feet southeast of tank, 35 feet northwest of point where wagon road crosses pipe line.

Signal: A 4 by 4 inch pole with targets at a right angle set over center.

Station mark: Post stamped "Prim. Trav. Sta. No. 27, Mac., 1918. Elev. 368."

[Latitude 35° 08' 23.15". Longitude 79° 00' 33.14".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Vaughn.....	16 54 57.00	196 54 45.00	3. 26269	1. 138
Murchison.....	264 56 42.00	84 58 21.00	3. 63864	2. 704

**CAMP BRAGG EAST BASE, CUMBERLAND COUNTY, N. C.**

In a cultivated field, 1,400 feet northeast of Mr. McIlwine's residence and on his property, 400 feet north of road, 7 miles west of Fayetteville by Morganton road.

Signal: Quadripod with cross targets.

Station mark: Concrete post 5 feet long and 24 inches square, set 4 feet 8 inches in the ground, with Geological Survey tablet in top.

Reference marks: Two concrete posts 30 by 18 by 18 inches, set 26 inches in the ground northeast and southwest from center, with tablets in top. The three posts are in line along farm road, and the reference points are 25 feet from the center.

[Latitude 35° 04' 56.44". Longitude 78° 59' 56.82".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Camp Bragg West Base.....	99 18 01.56	279 17 24.02	3. 2244133	1. 042
Mac.....	133 17 10.89	313 15 27.62	3. 7956898	3. 882
Vaughn.....	162 32 33.16	342 32 00.17	3. 6849935	3. 008

**CAMP BRAGG WEST BASE, CUMBERLAND COUNTY, N. C.**

About 8 miles west of Fayetteville, by the Morganton road, 3,000 feet west of Mr. McIlwine's house and on his land, 200 feet north of Morganton road where it descends toward creek, 65 feet northwest of unoccupied cabin.

Station mark: Bronze tablet set in block of concrete 5 feet long and 24 inches square, set  $4\frac{1}{2}$  feet in the ground.

Reference marks: (1) 25 feet south is concrete post 30 by 18 by 18 inches, tablet in top; (2) 25 feet west is concrete post 30 by 18 by 18 inches, tablet in top; (3) 20 feet north is concrete post 30 by 18 by 18 inches; tablet in top.

[Latitude  $35^{\circ} 05' 05.23''$ . Longitude  $79^{\circ} 01' 02.13''$ .]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Mac.....	144	11	48.37	324	10	42.65	3.6943161	3.074
Vaughn.....	182	38	59.62	2	39	04.19	3.6387276	2.704
Camp Bragg East Base.....	279	17	24.02	99	18	01.56	3.2244133	1.042

#### FAYETTEVILLE, CUMBERLAND COUNTY, N. C.

Tall iron standpipe on south side of Hay Street, in western part of Fayetteville.

Signal: Center of standpipe.

Station mark: Center of standpipe.

[Latitude  $35^{\circ} 03' 22.75''$ . Longitude  $78^{\circ} 53' 56.62''$ .]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Polly Ray.....	108	08	46.28	288	00	51.80	4.3423502	13.668
Mac.....	117	42	44.46	297	37	34.17	4.1886193	9.593
Vaughn.....	125	23	37.05	305	19	37.01	4.1129212	8.059
Murchison.....	149	23	46	329	21	36	4.04929	6.960

#### FINLAYSON, HOKE COUNTY, N. C.

About 18 miles west of Fayetteville, about 7 miles northeast of Raeford, 600 feet southwest of point where Chicken road crosses Mulatto road and 170 feet south of Chicken road, on highest part of hill locally known as Finlayson Mountain. Lines of sight were cut to other points.

Signal: A quadripod of poles with targets.

Station mark: Cement post 36 by 18 by 18 inches set 32 inches in ground. Survey tablet in top just over center and under signal. A tall pine tree on north edge of road was left standing and sighted from Vaughn and Mac.

Elevation, 495.063 feet (150.896 meters).

[Latitude  $35^{\circ} 04' 26.63''$ . Longitude  $79^{\circ} 11' 23.47''$ .]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Montrose Sanatorium.....	83	12	33.38	263	07	10.00	4.1572744	8.925
McPherson.....	141	34	11.50	321	31	56.90	3.9791746	5.923
Gaddys.....	179	21	40.68	359	21	39.27	3.7454438	3.458
Polly Ray.....	229	04	39.82	49	06	47.10	3.8703502	4.610
Mac.....	247	54	48.68	67	59	40.22	4.1416357	8.610
Vaughn.....	250	47	37	70	53	27	4.22718	10.484

#### GADDYS, HOKE COUNTY, N. C.

On timbered hill locally known as Gaddys Mountain, about 1.8 miles northwest from Fayetteville and 1.5 miles east of the Battlefield Farm.

Signal: Quadripod of poles with cross targets.

Station mark: Concrete post set 2.5 feet in ground 18 inches square on top, which is 4 inches above the surface. Geological Survey tablet in top.

Elevation, 534.851 feet (163.023 meters).

[Latitude 35° 07' 27.20". Longitude 79° 11' 25.92".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Montrose Sanatorium.....	62	54	47.98	242	49	25.82	4.2027770	9.911
McPherson.....	107	58	43.82	287	56	30.55	3.7898290	3.830
Gilliland.....	152	05	34.12	332	03	54.20	3.9721187	5.827
Monroe.....	259	38	38.21	79	42	18.29	3.9930884	6.116
Polly Ray.....	277	05	10.27	97	07	19.04	3.7567512	3.549
Finlayson.....	359	21	39.27	179	21	40.68	3.7454438	3.458

#### GILLILAND, HOKE COUNTY, N. C.

On a wooded hill about 12 miles northeast from Southern Pines and 1 mile south of Little River. About 1 acre was cleared of bushes and trees. Station is on land owned by Mr. Gilliland.

Signal: Cross targets nailed to 10-inch pine tree.

Station mark: Concrete post 30 by 18 by 18 inches, set 26 inches in ground. Geological Survey tablet in top.

Reference mark: Signal tree 4.4 feet distant. True azimuth, 193° 30'.

Elevation, 382.254 feet (116.511 meters).

[Latitude 35° 11' 56.09". Longitude 79° 14' 19.44".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
McPherson.....	12	57	51.73	192	57	18.28	3.8164296	4.072
Southern Pines Tank.....	77	11	41.83	257	06	42.82	4.1292627	8.368
Monroe.....	294	49	39.38	114	54	59.61	4.1905444	9.636
Polly Ray.....	311	46	19.15	131	50	07.96	4.1300442	8.383
Gaddys.....	332	03	54.20	152	05	34.12	3.9721187	5.827

#### MAC, CUMBERLAND COUNTY, N. C.

Mac is 12.5 miles west and north from Fayetteville by Carthage road, about 0.5 mile south of road, in woods, on highest ground on ridge and 400 feet northeast of field.

Signal: Targets at south side of platform.

Theodolite mounted on trunk of pine tree cut off 31 feet above ground, and around which a platform was built.

Station mark: Concrete post 2.5 feet long and 18 inches square, set 4 inches above surface, with tablet in top. This is set under signal.

Elevation, 417.709 feet (127.318 meters).

[Latitude 35° 07' 15.40". Longitude 79° 02' 56.41".]

To station—	Azimuth.			Back azimuth.			Distance.	
	°	'	"	°	'	"	Log. meters.	Miles.
Finlayson.....	67	59	40.22	247	54	48.68	4.1416357	8.610
Polly Ray.....	87	18	34.40	267	15	50.06	3.8598445	4.500
Monroe.....	123	29	30.54	303	28	17.43	3.5862196	2.396
Vaughn.....	263	47	22.62	83	48	32.94	3.4532108	1.934
Fayetteville.....	297	37	34.17	117	42	44.46	4.1886193	9.593
Camp Bragg East Base.....	313	15	27.62	133	17	10.89	3.7956898	3.882
Camp Bragg West Base.....	324	10	42.65	144	11	48.37	3.6943161	3.074

## McPHERSON, HOKE COUNTY, N. C.

On low, timbered hill locally known as McPherson Mountain, 1 mile west of the Raeford-Vass road at a point 10 miles north of Raeford. Lines of sight cut to distant points.

Signal: Quadripod of poles with cross targets.

Station mark: Concrete post 2.5 feet in ground and 18 inches square on top, which is 6 inches above surface. Geological Survey tablet in top.

Instrument under signal and over center.

Elevation, 542.747 feet (165.430 meters).

[Latitude 35° 08' 28.87." Longitude 79° 15' 17.51."]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Montrose Sanatorium.....	42 15 30.93	222 12 21.85	4.0931047	7.699
Southern Pines Tank.....	106 14 59.49	286 10 34.12	4.0844894	7.548
Gilliland.....	192 57 18.28	12 57 51.73	3.8164296	4.072
Gaddys.....	287 56 30.55	107 58 43.82	3.7898290	3.830
Finlayson.....	321 31 56.90	141 34 11.50	3.9791746	5.923

## MONROE, CUMBERLAND COUNTY, N. C.

About 14 miles north and west from Fayetteville and about 2 miles east and north of Longstreet Church, 0.5 mile north of Carthage road, in field, on top of ridge, and 75 feet southeast from gate.

Signal: Sawed lumber quadripod with cross targets.

Station mark: Concrete post 2.5 feet long and 18 inches square on top, which is 4 inches above surface.

Instrument over center and under signal.

Elevation, 485.894 feet (148.101 meters).

[Latitude 35° 08' 24.44". Longitude 79° 05' 03.47".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Polly Ray.....	58 24 52.93	238 23 21.66	3.6734821	2.930
Gaddys.....	79 42 18.29	259 38 38.21	3.9930884	6.116
Gilliland.....	114 54 59.61	294 49 39.38	4.1905444	9.636
Vaughn.....	285 49 33.24	105 51 56.69	3.8169471	4.077
Mac.....	303 28 17.43	123 29 30.54	3.5862196	2.396

## MONTROSE SANATORIUM, HOKE COUNTY, N. C.

Station is the center of tall standpipe at the Montrose Tuberculosis Sanatorium.

Signal: Center of standpipe.

Station mark: Center of standpipe.

Instrument off center.

[Latitude 35° 03' 31.15." Longitude 79° 20' 46.34".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Southern Pines Tank.....	165 06 40.22	345 05 24.27	4.1140597	8.080
McPherson.....	222 12 21.85	42 15 30.93	4.0931047	7.699
Gaddys.....	242 49 25.82	62 54 47.98	4.2027770	9.911
Finlayson.....	263 07 10.00	83 12 33.88	4.1572744	8.925

**MURCHISON, CUMBERLAND COUNTY, N. C.**

Station is 20 feet north of the Murchison road, 8.5 miles from Fayetteville, and about 2,000 feet southeast from forks of Murchison and plank roads, on sand ridge covered with bush.

Signal: Quadripod of sawed lumber with targets at right angles to each other.

Station mark: Concrete post 30 inches in the ground 18 inches square at top, which is 4 inches above surface and has a Geological Survey tablet in center.

Elevation, 326.673 feet (99.570 meters).

[Latitude 35° 08' 35.56". Longitude 78° 57' 41.91."]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Vaughn.....	66 20 29	246 18 38	3.72551	3.303
Bench mark 27.....	84 58 21	264 56 42	3.63864	2.704
Fayetteville.....	329 21 36	149 23 46	4.04929	6.960

**POLLY RAY, HOKE COUNTY, N. C.**

About 14 miles northwest from Fayetteville and 0.75 mile west of Longstreet Church, on a knoll, locally known as Polly Ray mountain; all timber was cleared from top except one tree left for signal.

Station mark: Concrete post 36 by 18 by 18 inches, set 30 inches in ground. Geological Survey tablet in top.

Elevation, 465.755 feet (141.962 meters).

[Latitude 35° 07' 04.28". Longitude 79° 07' 42.085."]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Finlayson.....	49 06 47.10	229 04 39.82	3.8703502	4.610
Gaddys.....	97 07 19.04	277 05 10.27	3.7567512	3.549
Gilliland.....	131 50 07.96	311 46 19.15	4.1300442	8.383
Monroe.....	238 23 21.66	58 24 52.93	3.6734821	2.930
Mac.....	267 15 50.06	87 18 34.40	3.8598445	4.500
Fayetteville.....	288 00 51.80	108 08 46.28	4.3423502	13.668

**SOUTHERN PINES TANK, MOORE COUNTY, N. C. (Not occupied.)**

Station is the center of a tall wooden water tank in a grove of pine trees, on top of hill, 0.5 mile southeast from the village of Southern Pines.

Signal: Center of tank.

[Latitude 35° 10' 18.93". Longitude 79° 22' 58.37".]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Gilliland.....	257 06 42.82	77 11 41.83	4.1202627	8.368
McPherson.....	286 10 34.12	106 14 59.49	4.0844894	7.548
Montrose Sanatorium.....	345 05 24.27	165 06 40.22	4.1140597	8.080

**VAUGHN, CUMBERLAND COUNTY, N. C.**

Vaughn is on a low hill, about 9 miles northwest of Fayetteville and 0.25 mile north of Yadkin road. Brush cleared from top and signal erected over center.

Signal: A quadripod of sawed lumber.

Station mark: Concrete post 2.5 feet long and 18 inches square, projecting 4 inches above surface. Geological Survey bench mark tablet in top, just over center and under signal.

Elevation, 426.250 feet (129.821 meters).

[Latitude 35° 07' 26.31". Longitude 79° 00' 54.18'']

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Camp Bragg West Base.....	2 39 04.19	182 38 59.62	3.6387276	2.704
Finlayson.....	70 53 27	250 47 37	4.22718	10.484
Mac.....	83 48 32.94	263 47 22.62	3.4932108	1.934
Monroe.....	105 51 56.69	285 49 33.24	3.8169471	4.077
Bench mark 27.....	196 54 45	16 54 57	3.26269	1.138
Murchison.....	246 18 38	66 20 29	3.72551	1.303
Fayetteville.....	305 19 37.01	125 23 37.05	4.1129212	8.059
Camp Bragg East Base.....	342 32 00.17	162 32 33.16	3.6849935	3.008

## PRIMARY TRAVERSE.

Arringdale, Beckford, Boykins, Cape Fear, Emporia, Guide, Halifax, Holland, Potecasi, Shallotte, Southport, Suffolk, Supply, Wampee, White Plains, and Wilmington quadrangles.

## ARRINGDALE QUADRANGLE.

BRUNSWICK, COLUMBUS, GATES, HARTFORD, HOLLAND, NEW HANOVER, AND NORTH-AMPTON COUNTIES.

Along highways near south border of quadrangle. (By H. J. Switzer in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
T road north at R. F. D. box 64.....	36 30 57.6	77 29 54.5	-----
T road south at R. F. D. box 62.....	36 30 59.2	77 29 26.8	2,264
Center of road, in line with fence along T road north.....	36 31 30.4	77 28 43.1	4,768
Junction of roads to Pleasant Hill and Seaboard, signboard reads "Pleasant Hill 6 miles, Seaboard 3 miles," in grass triangle; iron post stamped "Prim. Trav. Sta. No. 3, 1918".....	36 31 32.2	77 28 33.9	769
T lane north.....	36 31 46.3	77 27 31.8	5,262
T road south at mail box.....	36 32 01.0	77 26 59.1	3,059
Culvert, center of.....	36 32 13.5	77 26 02.9	4,752
Road north to negro cabin.....	36 32 30.0	77 25 18.9	3,961
Center of bridge over ditch.....	36 32 12.4	77 24 39.0	3,710
Culvert.....	36 32 15.3	77 23 47.5	4,212
T road north to Gaskins.....	36 32 00.0	77 22 37.9	5,892
Culvert under road.....	36 31 52.2	77 22 04.9	2,804
Culvert under road.....	36 31 51.4	77 21 23.7	3,365
Margaretsville, at intersection of county road and railroad, 33 feet south of north rail, 20 feet east of telegraph pole; iron post stamped "Prim. Trav. Sta. No. 4, 1918".....	36 31 52.2	77 20 58.0	2,092
Rogers siding, road crossing at.....	36 32 20.1	77 19 29.7	7,746
Virginia-North Carolina State line, south rail at.....	36 32 42.3	77 18 17.7	6,286
Crossing of Jackson-Severn roads.....	36 30 14.9	77 15 23.6	-----
Junction of roads to Branchville, Margaretsville, and Pendleton.....	36 30 55.7	77 16 03.2	5,248
T road north.....	36 31 03.4	77 17 08.9	5,414
Box culvert.....	36 31 02.3	77 17 51.8	3,503
Box culvert.....	36 31 12.9	77 18 56.6	5,402
T road north.....	36 31 07.0	77 19 39.6	3,558
Junction of roads to Galicia and Jackson.....	36 31 00.2	77 20 00.7	1,856
Gate on farm road west.....	36 31 38.1	77 20 15.2	4,015
Prim. Trav. Sta. No. 4, 1918 (previously listed).....	36 31 52.17	77 20 58.03	3,772

Magnetic declination for south border of quadrangle, 3.54° W.; near southeast corner of quadrangle, 5° 00' W.

## BECKFORD QUADRANGLE.

(By J. J. Phelan in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Savage, 1 mile east of, at junction of roads; iron post stamped "Prim. Trav. Sta. No. 13, 1905".....	36 29 08.3	76 34 36.5	-----
Intersection of highway and Dismal Swamp narrow-gage railroad, east side of highway and north of track.....	36 29 22.6	76 34 29.8	1,544

## BOYKINS QUADRANGLE.

(By C. B. Kendall in 1905.)

Station.	Latitude.	Longitude.	Distance between station.
	° ' "	° ' "	Feet.
Como, at southeast corner of G. C. Picot's store; iron post stamped "Prim. Trav. Sta. No. 9, 1905".....	36 30 05.0	77 00 27.3	.....

## North along highways near east border of quadrangle. (By J. J. Phelan in 1918.)

Como, at southwest (southeast?) corner of G. C. Picot's store; iron post stamped "Prim. Trav. Sta. No. 9, 1905" (Bull. 276, p. 104).....	36 30 05.0	77 00 27.3	.....
T road northwest, in front of church; iron post stamped "Prim. Trav. Sta. No. 10, 1918, P".....	36 30 14.0	77 00 16.0	1,296
Center of road, 230 feet north of Lit. Grant's mail box.....	36 31 35.4	77 00 55.2	8,828
T road south, 5 feet northeast of W. C. Britt's mail box.....	36 32 26.3	77 01 19.0	5,504
T road north, 13 feet from large cedar tree at corner of field.....	36 32 27.0	77 01 16.5	220
Center of road, directly in front of Adolphus Boom's house, 18 feet from mail box 16.....	36 32 47.2	77 01 21.1	2,074

Magnetic declination near southeast corner of quadrangle, 4.4° W.

## Along Seaboard Air Line Ry. (By H. J. Switzer in 1918.)

Meherrin River, north end of bridge 37 (542 feet in length).....	36 31 58.2	77 11 46.7	.....
Overhead bridge.....	36 31 19.8	77 11 21.2	4,404
Severn station, north end of trestle just south of.....	36 30 46.4	77 11 24.2	3,385
Road crossing, east rail at.....	36 30 08.2	77 11 34.4	3,961

Magnetic declination for south border of quadrangle, 4° 18' W.

## Near south border of quadrangle. (By J. J. Phelan in 1918.)

Como, Prim. Trav. Sta. No. 10, 1918 P.....	36 30 14.0	77 00 16.0	.....
Como, T road north at, in line with well and corner of store, 9 feet from well, 18 feet from store.....	36 30 04.8	77 00 27.4	1,312
Como, 1 mile north of store at, opposite John Jones' residence, center of road.....	36 30 28.4	77 01 28.5	5,530
Como, 1.25 miles north of, in angle of road forks to the southeast.....	36 30 32.7	77 01 39.4	980
Crossroads, in south wheel track of east and west road, 20 feet northeast of F. N. Howell's mail box No. 4.....	36 30 26.0	77 02 07.5	2,398
Bend in road of about 75°, large cedars to east and dense woods to west.....	36 30 19.5	77 02 59.4	4,287
T road east, on west side of north and south road, in line with center of road east, 6 feet northeast of Clem Grant's mail box No. 18.....	36 30 23.4	77 03 15.6	1,375
T road from Como-Sunshine road to Boone's bridge.....	36 30 33.8	77 03 16.2	1,050
Outside angle of sharp turn of road, 200 feet east of Paul Drake's gate, at mail box 50.....	36 30 32.9	77 03 48.2	2,620
Mount Zion Baptist Church, in center of triangle made by junction of Franklin-Como-Severn roads.....	36 31 17.6	77 04 20.0	5,217
Small bridge, east end of.....	36 31 25.5	77 04 31.2	1,213
Center of road, 20 feet northwest of Hugh Lee's mail box.....	36 31 36.8	77 04 51.5	2,013
T road north to Statesville.....	36 31 50.7	77 05 29.5	3,403
Small plank bridge, east end of.....	36 31 47.2	77 05 48.5	1,585
Sharp turn in road, 15 feet south of J. J. Cowper's mail box No. 40.....	36 31 47.6	77 06 07.1	1,520
Small plank culvert, center of.....	36 32 17.7	77 06 50.7	4,682
Road forks to south.....	36 32 20.4	77 07 37.0	3,785
Meherrin River, east end of Boone's bridge over, about 3 miles east of Severn.....	36 31 31.3	77 08 53.7	7,983
Northwest angle of triangle where road forks east to Como.....	36 30 51.3	77 09 44.9	5,814
Severn, about 1.5 miles east of, south rail of narrow-gage railroad, center of road crossing.....	36 31 12.2	77 10 38.6	4,897
Severn, 54 feet diagonally across from corner of Fleetwood's store, 18 feet east of railroad track; iron post stamped "Prim. Trav. Sta. No. 13, 1918, P. 59".....	36 30 49.5	77 11 23.0	4,281

Magnetic declination for south border of quadrangle, 4° 14' W.

## CAPE FEAR QUADRANGLE.

South along highways. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Small bridge.....	33 59 35.3	77 55 04.5	.....
Old brick chimney about 8 feet high with fire place on each side, about 600 feet south of frame house.....	33 59 02.9	77 55 10.1	3,309
Fort Fisher triangulation station of U. S. Coast and Geodetic Survey.....	33 58 08.89	77 55 00.72	5,521
Federal Point, U. S. C. E. triangulation station.....	33 57 35.72	77 56 28.83	8,145
Federal Point, block of concrete 18 inches square, set 3 feet in ground, marked with tablet and legend U. S. Coast and Geodetic Survey Station is on northwestern point of the mound on Federal Point. U. S. C. E. station was used as a reference mark.....	33 57 36.11	77 56 29.45	65

## HOLLAND QUADRANGLE.

Along highways between Gatesville and Gates station. (By C. B. Kendall in 1905.)

Station.	Latitude.	Longitude.	Distance between station.
	° ' "	° ' "	Feet.
Gates station, crossing of road and railway, 350 feet south of.....	36 30 08.6	76 46 09.9	.....

## Along highways between Como and Gates station.

Como, road forks, 2 miles northeast of, 40 feet south to pine tree, 80 feet east to pine tree.....	36 30 46.2	76 59 20.2	.....
Second-class road forks to northwest, 15 feet south to corner of rail fence.....	36 31 20.7	76 58 04.0	.....
Riddicksville, T road southeast, 40 feet south to chimney, 80 feet west to gate.....	36 31 38.7	76 56 22.8	.....
Mannys Ferry, east landing.....	36 31 43.0	76 54 45.4	.....
Mannys Ferry four corners, 1 mile southeast of.....	36 31 13.2	76 54 02.2	.....
T road south, northwest of Topsy, 10 feet north to fence, 30 feet southwest to fence.....	36 30 38.8	76 52 53.5	.....
Topsy, in angle at forks of road near store; iron post stamped "Prim. Trav. Sta. No. 10, 1905".....	36 30 13.2	76 52 19.0	.....
Church, T road north, 700 feet east of.....	36 30 23.0	76 50 49.0	.....
T road north, 25 feet south to gate, 30 feet northeast to cedar.....	36 30 13.8	76 49 46.1	.....
Four corners, 20 feet east to signpost which reads "Gatesville 10 miles," 30 feet west to gum tree.....	36 30 07.5	76 48 38.7	.....
Second-class T road east.....	36 30 08.3	76 47 36.8	.....
Four corners, 25 feet west to persimmon tree, 60 feet southeast to oak tree.....	36 30 03.2	76 46 41.1	.....
Gates, at northeast corner of C. R. Hinton's house; iron post stamped "Prim. Trav. Sta. No. 11, 1905".....	36 30 13.0	76 46 08.9	.....
Gates, railway crossing, 350 feet south of station.....	36 30 08.6	76 46 09.9	.....

## Near southeast corner of quadrangle. (By J. J. Phelan in 1918.)

Road crossing.....	36 30 54.6	76 45 18.9	.....
Gates, first road crossing south of.....	36 30 08.6	76 46 09.8	5,238

## South along highways near center of quadrangle.

Road forks, at little-traveled wood road, about 20 feet south of fence which is said to be on Virginia-North Carolina boundary line.....	36 33 05.7	76 51 22.8	.....
T road north.....	36 32 45.2	76 51 22.7	2,073
Center of small culvert.....	36 32 02.4	76 52 03.1	5,448
Dort, 150 feet northeast of church, 10 feet from mail box No. 38, center of road.....	36 31 46.8	76 52 13.0	1,770
T road south.....	36 31 40.5	76 52 29.8	1,510
Topsy, about 1.25 miles north of, on side of road, at point where road makes right-angle turn; iron rod 1.5 inches diameter (local survey mark).....	36 31 07.5	76 52 29.3	3,340
T road south.....	36 30 38.9	76 52 53.3	3,494
Center of bridge over creek.....	36 30 28.1	76 52 44.3	1,315
Topsy, in angle at forks of road near store; iron post stamped "Prim. Trav. Sta. No. 10, 1905" (Bull. 276, p. 103).....	36 30 13.2	76 52 19.0	2,559

Magnetic declination for south border of quadrangle, 4.3° W.

## EMPORIA QUADRANGLE.

South along Atlantic Coast Line R.R. near east border of quadrangle. (By Herman Switzer in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Pleasant Hill, 5 feet north of semaphore; iron post stamped "Prim. Trav. Sta. No. 2, 1918".....	36 31 53.3	77 32 02.4	5,089
Road crossing.....	36 31 36.7	77 32 06.9	1,718
Road crossing, near milepost 76.....	36 30 31.8	77 32 26.9	6,759

## West along highways near south border of quadrangle.

Farm lane south.....	36 30 01.8	77 34 59.4	.....
Five-foot bridge.....	36 30 22.0	77 35 42.2	4,047
T road north.....	36 30 33.0	77 36 12.3	2,694
T road north.....	36 30 36.2	77 37 10.3	4,751
Eighteen-foot bridge, east end of.....	36 30 22.0	77 37 59.8	4,283
Roanoke Rapids, 2.5 miles north of, at T road south, 9 feet east by 3 feet north of northwest corner of Fitzhugh's store; iron post stamped "Prim. Trav. Sta. No. 11, 1918".....	36 30 00.3	77 38 43.0	4,162
T road south.....	36 30 14.8	77 40 06.6	6,981
T road north.....	36 30 22.1	77 40 48.8	3,521
T road north.....	36 30 38.8	77 42 26.1	8,120

## Along Southern Ry. west from Emporia.

White Church, 250 feet east of road, east edge of road opposite front door of.....	36 32 37.0	77 44 25.3	.....
Culvert, 18 inches by 60 inches log and plank.....	36 31 50.4	77 44 59.3	5,473

## West along highways near south border of quadrangle.

T road north.....	36 30 37.0	77 43 01.2	.....
T road north.....	36 30 22.3	77 43 54.6	4,612
Farm-road crossing.....	36 30 09.5	77 44 15.2	2,119
Farm-road crossing.....	36 30 07.9	77 44 43.6	2,318

Magnetic declination for south border of quadrangle, 4° 00' W.

Near center of quadrangle. (By H. J. Switzer in 1918.)

Mail box, at T road west to Pleasant Hill.....	36 30 34.2	77 31 09.9	.....
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## GUIDE QUADRANGLE.

Along highways near south border of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Forks of road.....	34 00 10.0	78 32 34.6	.....
Scippee Creek, at old mill, center of south one of two bridges.....	34 00 30.5	78 32 37.4	2,086
Forks of road.....	34 00 46.6	78 33 09.4	3,151
Regan schoolhouse, in northwest corner of yard, at southeast corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 29 J, 1918".....	34 00 59.5	78 33 57.5	4,253
Forks of road.....	34 00 48.7	78 34 43.8	4,043
Creek crossing.....	34 00 39.8	78 35 53.4	5,930
Forks of road.....	34 00 25.8	78 36 48.6	4,853
Creek crossing.....	34 00 33.0	78 37 17.0	2,505
Forks of road.....	34 00 39.0	78 37 35.0	1,623
Pineway Ferry, on Waccamaw River, west landing.....	34 00 36.5	78 38 28.1	4,475
Pineway, road fork in front of store.....	34 00 38.4	78 38 32.1	393
Conway, Pineway, and Loris road fork, (Wampee quadrangle).....	33 59 52.0	78 39 05.4	5,466
Center of bridge, the west one of two.....	34 00 04.8	78 40 03.1	5,030
Center of bridge culvert.....	34 00 22.8	78 41 34.6	7,913
Forks of road.....	34 00 28.4	78 42 02.5	2,410
Center of road in front of house and flowing well.....	34 00 34.2	78 42 55.5	4,501

Magnetic declination near south border of quadrangle, 2° 10' W.

## HALIFAX QUADRANGLE.

Along highways near north border of quadrangle. (By H. J. Switzer in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road crossing on Atlantic Coast Line R. R., on east rail of east track.	36 29 40.6	77 32 42.8	.....
Small bridge, east end of.....	36 29 45.2	77 33 32.0	4,043

Magnetic declination for north part of quadrangle, 4° 00' W.

## POTECASI QUADRANGLE.

Along Seaboard Air Line Ry. and highways. (By H. J. Switzer in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
North end of trestle.....	36 29 16.0	77 11 48.2	.....
County-road crossing.....	36 28 46.1	77 11 57.2	3,110
Fendleton, 15 feet east of east rail of east track, 15 feet north of center of road, near railroad-crossing sign; iron post stamped "Prim. Trav. Sta. No. 15, 1918." Azimuth to south gable of corrugated iron warehouse, 3° 29' 50".	36 28 18.3	77 12 05.4	2,890
East edge of stream crossing.....	36 28 28.3	77 12 26.9	2,021
East end of bridge.....	36 28 55.3	77 13 13.8	4,708
Farm-road crossing.....	36 29 13.3	77 13 42.0	2,933
South edge of branch crossing road.....	36 29 48.5	77 14 40.2	5,937

Magnetic declination for north border of quadrangle, 4° 18' W.

## SHALLOTTE QUADRANGLE.

Northeast along highways across northwest corner of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Crossroads.....	33 54 58.7	78 29 32.7	.....
Road fork.....	33 55 03.5	78 28 59.5	2,842
Center of road, opposite house on south side of road.....	33 55 29.2	78 27 36.3	7,480
Center of road, opposite blazed pine tree on south side of road.....	33 55 46.7	78 26 36.6	5,327
Road fork at small culvert.....	33 55 57.1	78 26 00.1	3,251
Road fork.....	33 56 15.7	78 25 10.4	4,589
Road fork south.....	33 56 34.2	78 24 38.0	3,305
Crossroads at church.....	33 57 13.9	78 24 11.7	4,585
Road fork at store.....	33 57 40.7	78 23 46.0	3,469
Shallotte, center of bridge over Shallotte River.....	33 58 20.0	78 23 12.4	4,884
Center of bridge over creek.....	33 58 42.2	78 22 40.0	3,527
Road fork.....	33 59 14.3	78 21 31.8	6,597
Crossroads.....	33 59 20.8	78 21 12.9	1,720
Center of bridge.....	33 59 37.1	78 20 26.3	4,260
Crossroads.....	33 59 56.2	78 19 30.8	5,049

Magnetic declination for northwest part of quadrangle, 2° 20' W.

From north border of quadrangle south, west, and north along highways.

Crossroads.....	33 59 24.2	78 16 38.0	.....
Center of road, opposite large tombstone on west side of road.....	33 58 57.8	78 16 16.7	3,226
Road fork, at Fulwood mail box.....	33 58 26.5	78 15 52.5	3,760
Bachelor Creek, center of bridge over.....	33 58 06.7	78 15 35.9	2,445
Crossroads.....	33 57 44.0	78 15 37.0	2,297
Maple Creek, center of bridge over.....	33 57 30.3	78 15 32.1	1,447
Road fork, at signboard reading "6 miles to Supply".....	33 56 38.9	78 15 15.8	5,370
Road fork, about 400 feet southeast of white schoolhouse.....	33 56 29.8	78 15 10.4	1,034
Crossroads.....	33 56 32.7	78 16 22.1	6,047

## SHALLOTTE QUADRANGLE—Continued.

From north border of quadrangle south, west, and north along highways—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Road fork, at corner of field.....	33 56 43.5	78 17 22.9	5,233
Crossroads.....	33 56 33.1	78 18 04.9	3,688
Road fork, opposite signboard reading "Sea Shore Outlet 2½ miles".....	33 56 48.7	78 18 31.1	2,710
Road fork, in front of barn.....	33 57 06.4	78 18 45.1	2,147
Crossroads.....	33 57 19.6	78 19 02.2	1,957
Creek crossing.....	33 57 52.5	78 19 37.6	4,471
Crossroads.....	33 58 18.5	78 20 06.3	3,565
Sharon Branch, center of bridge crossing.....	33 58 31.4	78 20 32.6	2,569
Center of bridge.....	33 58 36.9	78 21 18.0	3,866
Road fork.....	33 58 41.4	78 21 40.6	1,952
Shallotte, 1 mile east of, in southeast corner of road fork, 30 feet northeast of old store, 3 feet west of signboard; iron post stamped "Prim. Trav. Sta. No. 25, J, 1918".....	33 58 50.5	78 22 27.8	4,086
Center of bridge over creek (previously described).....	33 58 42.2	78 22 40.0	1,327

Magnetic declination for quadrangle, 2° 30' W.

## Along highways in north part of quadrangle.

Road forks at store.....	33 57 40.7	78 23 46.0	-----
Center of bridge.....	33 57 37.1	78 24 31.8	3,870
Small stream crossing.....	33 57 40.2	78 25 38.0	5,590
Center of bridge.....	33 57 36.5	78 25 55.2	1,488
Forks of road.....	33 57 29.9	78 26 19.4	2,145
Center of culvert.....	33 57 36.4	78 27 15.1	4,734
Center of bridge.....	33 57 39.7	78 28 09.5	4,585
Crossroads at white church.....	33 57 44.5	78 28 34.0	2,119
Road forks at store.....	33 57 37.1	78 29 37.4	5,396

Magnetic declination for north part of quadrangle, 2° 26' W.

## SOUTHPORT QUADRANGLE.

From northwest corner of quadrangle southeast along highways. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between station.
	° ' "	° ' "	<i>Feet.</i>
T road north.....	33 59 47.7	78 14 06.5	-----
Center of bridge.....	33 59 37.9	78 13 25.4	3,600
Road fork.....	33 59 31.9	78 13 00.0	2,220
Center of bridge.....	33 59 21.5	78 12 16.2	3,831
Road fork at gate.....	33 59 08.1	78 11 19.9	4,930
Center of bridge.....	33 58 57.5	78 10 35.5	3,890
Second-class crossroads.....	33 58 39.9	78 09 21.7	6,460
Road fork south at mail box.....	33 58 32.5	78 08 50.9	2,700
At southwest corner of crossroads, Bolivia, Southport, and Supply roads; iron post stamped "Prim. Trav. Sta. No. 27 J, 1918".....	33 58 18.0	78 07 50.6	5,288
Road fork.....	33 58 08.3	78 07 09.5	3,599
Center of road, opposite pine tree on north side, blazed and marked "U. S.".....	33 57 57.6	78 06 24.9	3,901
Beaver Creek, center of bridge over.....	33 57 38.0	78 05 02.2	7,242
Old road to south at wrecked bridge.....	33 57 29.3	78 04 25.7	3,201
Center of road, opposite signboard on pine tree, south side of road.....	33 57 24.8	78 04 06.7	1,660
Center of bridge.....	33 57 13.3	78 03 18.8	4,199
Center of bridge.....	33 56 58.2	78 02 19.0	5,266
Crossroads.....	33 56 52.3	78 02 06.2	1,228
Crossroads.....	33 56 36.0	78 01 46.4	2,340
Road fork, signboard reading "Supply 15 miles".....	33 56 17.3	78 01 35.6	2,096
Road fork.....	33 55 56.0	78 01 25.7	2,310
Southport, Episcopal Church spire, triangulation station of the U. S. Coast and Geodetic Survey.....	33 55 06.21	78 01 04.20	5,349

Magnetic declination for northeast part of quadrangle, 2° 45' W.

## SOUTHPORT QUADRANGLE—Continued.

Northeast to northeast corner of quadrangle. (Checked spur.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road fork, signboard reading "Supply 15 miles" (previously described).....	33 56 17.3	78 01 35.6	.....
Center of bridge at road fork.....	33 56 50.4	78 01 21.6	3,548
Road fork.....	33 57 24.4	78 01 47.5	4,070
Center of road, opposite 4-mile post.....	33 58 20.5	78 01 25.6	5,967
Crossroads, at signboard reading "Wilmington 25 miles".....	33 58 42.0	78 01 13.9	2,385
Crossing of Spring Creek, 70 feet south of, on east side of road, 200 feet north of road fork; iron post stamped "Prim. Trav. Sta. No. 28 J, 1918".....	33 58 54.4	78 01 04.0	1,506

## SUFFOLK QUADRANGLE.

Along highways. (By C. B. Kendall in 1905.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
T road northwest, 20 feet west to corner of fence.....	36 30 29.8	76 43 22.9	.....
Schoolhouse, road forks at, 20 feet east to signpost reading "Sunbury 10 miles".....	36 31 06.1	76 41 57.7	.....
Second-class T road east, 20 feet southeast to corner of wire fence.....	36 31 50.5	76 40 36.4	.....
Four corners, 15 feet southwest to signpost reading "Somerton 5 miles, Sunbury 8 miles".....	36 32 30.6	76 40 17.3	.....
Second-class T road south.....	36 31 54.0	76 39 04.4	.....
Wiggins crossroads, 0.8 mile north of, four corners, 0.2 mile south of schoolhouse.....	36 31 47.0	76 38 29.6	.....
Wiggins crossroads, at southwest corner of C. C. Savage's store, iron post stamped "Prim. Trav. Sta. No. 12".....	36 31 05.9	76 38 15.3	.....
Wiggins, T road east, 1.25 miles south of, 50 feet northeast to persimmon tree.....	36 30 05.2	76 37 57.2	.....

North along narrow-gage railroad. (By J. J. Phelan in 1918.)

Road crossing, east rail.....	36 30 28.1	76 35 02.9	.....
Wiggins crossroads, 3.1 miles east of, 1,118 feet northeast of railroad, at main road forks, 0.8 mile south of Corapeake, west of road; iron post stamped "38 Adj. 1903" and "Prim. Trav. Sta. No. 1 P, 1918".....	36 31 16.6	76 34 34.4	5,425
Center of bridge No. 2 across swamp, 430 feet north of center of bridge No. 1.....	36 31 32.0	76 34 42.0	1,621
Corapeake, west rail of main line, directly opposite south end of station.....	36 32 07.6	76 34 35.7	3,631
Crossing of Suffolk and Corapeake highway.....	36 32 30.1	76 34 32.1	2,298
North Carolina-Virginia State line, brass plate in granite boundary monument on county road (Prim. Trav. Sta. No. 3 P).....	36 33 02.9	76 34 32.6	3,320

Southwest along Atlantic Coast Line R. R.

Virginia-North Carolina State line, railroad signboard, 31 feet west of westerly rail.....	36 33 03.3	76 42 56.2	.....
Drumhill, road crossing, 50 feet southwest of.....	36 32 31.2	76 43 31.9	4,366
Road crossing.....	36 31 30.7	76 44 38.9	8,202

Southeast along highways.

T road east.....	36 33 01.9	76 44 14.9	.....
T road west.....	36 32 39.1	76 43 53.4	2,896
Drumhill, road crossing.....	36 32 31.2	76 43 31.9	1,925

Magnetic declination for southwest part of quadrangle, 4.7° W.

## SUPPLY QUADRANGLE.

East along highways in southeast corner of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Crossroads.....	34 00 24.9	78 18 07.2	.....
Center of bridge.....	34 00 42.6	78 17 17.2	4,570
Road fork.....	34 01 01.3	78 16 24.0	4,865
Supply, 100 feet south of post office, on south side of road; iron post stamped "Prim. Trav. Sta. No. 26 J, 1918".....	34 00 43.5	78 15 56.6	2,927
Road fork.....	34 00 08.6	78 15 33.9	4,008

## WAMPEE QUADRANGLE.

From center of quadrangle east along highways. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
North Carolina and South Carolina State line.....	33 53 24.9	78 35 13.3	.....
Crossroads.....	33 53 23.6	78 34 49.8	1,981
Calabash post office, crossroads at.....	33 58 27.2	78 34 01.7	4,071
Road fork.....	33 53 51.3	78 33 17.6	4,442
Crossroads.....	33 54 24.7	78 31 43.4	8,635
Crossroads.....	33 54 45.9	78 30 32.0	6,383

Magnetic declination for center of quadrangle, 2° 04' W.

## Along highways near northeast corner of quadrangle.

Forks of road.....	33 57 52.0	78 30 38.7	.....
Forks of road.....	33 58 08.3	78 31 19.1	3,781
Forks of road.....	33 58 37.6	78 31 35.9	3,285
Caw Caw Creek crossing.....	33 58 52.3	78 31 47.7	1,786
Forks of road, at northeast corner of field.....	33 59 33.7	78 32 08.2	4,528

## Along highways near northwest corner of quadrangle.

Center of bridge.....	33 58 51.2	78 44 48.1	.....
Forks of three roads.....	33 58 18.4	78 44 26.9	3,758
Center of north one of two culverts.....	33 57 21.7	78 44 09.0	5,939
Forks of road.....	33 57 05.4	78 43 45.2	2,591
Buck Creek Church, road forks at (tie point).....	33 57 06.4	78 43 24.4	1,751

Magnetic declination near northwest corner of quadrangle, 2° 15' W.

## WHITE PLAINS QUADRANGLE.

South along highways near east border of quadrangle. (By J. C. Fales in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
T road west past unused store building, at corner.....	36 31 29.1	77 45 26.1	.....
Vulture, at northwest corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 15, 1918".....	36 31 00.4	77 46 00.9	4,063

(By H. J. Switzer in 1918.)

Farm-road crossing.....	36 30 29.7	77 45 30.0	3,997
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## WHITE PLAINS QUADRANGLE—Continued.

Along highways near south border of quadrangle. (By H. J. Switzer in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fet.</i>
Prim. Trav. Sta. No. 15, 1918 (previously described).....	36 31 00.4	77 46 00.9	.....
T road north.....	36 31 30.5	77 46 30.9	3,906
Farm road north.....	36 32 08.7	77 47 31.2	6,255
Culvert, 18-inch galvanized-iron pipe.....	36 31 59.9	77 48 37.6	5,498
Farm road north.....	36 32 02.4	77 49 05.8	2,315
Henrico, 75 feet east of store, 10 feet south of road; iron post stamped "Prim. Trav. Sta. No. 12, 1918".....	36 31 57.4	77 49 42.1	2,999
East end of bridge.....	36 31 45.3	77 50 31.4	4,208
Farm road south, at stone gate posts, on south side of road.....	36 31 23.2	77 50 53.1	2,857
Culvert, 36-inch galvanized-iron pipe.....	36 31 17.6	77 51 32.6	3,272
Farm road north.....	36 31 14.2	77 52 22.4	4,077
East end of bridge.....	36 31 37.5	77 53 23.1	5,488
Farm road north to Gasburg.....	36 31 59.8	77 54 12.4	4,608
Farm road north.....	36 31 41.0	77 54 35.8	2,696
Box culvert.....	36 31 25.9	77 55 02.0	2,622
Farm road east.....	36 31 36.3	77 55 49.8	4,042
Junction of roads to Henrico and Ferry.....	36 31 55.0	77 56 13.0	2,679
Clams, at junction of roads, 25 feet west of road to White Plains, 14 feet south of road to Robertson Ferry; iron post stamped "Prim. Trav. Sta. No. 13, 1918".....	36 32 29.8	77 56 36.7	4,010

Magnetic declination for south edge of quadrangle, 4° 22' W.

## WILMINGTON QUADRANGLE.

East along electric railroad (Wilmington to Wrightsville Beach). (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fet.</i>
Wilmington corner of Third and South Market streets, center of tower of St. James Episcopal Church, U. S. C. & G. S. triangulation station.....	34 14 05.93	77 56 45.69	.....
Intersection of Seventeenth and Newmarket streets.....	34 14 12.1	77 55 40.1	5,541
Public-road crossing.....	34 13 45.2	77 55 33.8	2,776
Oleander station, opposite center of south track.....	34 13 20.3	77 54 40.5	5,138
Garden City station, center of road crossing at Audubon Nursery.....	34 13 01.4	77 54 00.0	3,900
Winter Park Gardens, center of road crossing.....	34 12 46.9	77 53 11.4	4,337
Winter Park Gardens, station at point of angle in lots, in line with telephone poles; iron post stamped "Prim. Trav. Sta. No. 1, 1917, Mac." Azimuth to tower on Presbyterian Church about 700 feet distant, 141° 54' 15".....	34 12 46.3	77 53 10.1	128

South along highways near middle of quadrangle.

Fork of road.....	34 11 57.5	77 52 18.4	6,569
Center of bridge over Hewlett's Creek.....	34 11 23.5	77 51 53.4	4,029
Fork of road in line with road south.....	34 11 06.4	77 51 39.4	2,089
Sea Breeze Park, fork of road at entrance.....	34 10 06.3	77 51 47.2	6,113
Center of stone-arch culvert over Whiskey Creek.....	34 09 35.2	77 51 59.4	3,306
Second-class crossroad.....	34 09 00.0	77 52 14.5	3,784
Crossroads near schoolhouse.....	34 08 12.9	77 52 38.6	5,176
Wilmington, about 8 miles southeast of, on Belt road at junction with road to Fort Fisher, about 200 feet southeast of fork of road and in line with center of roadway in three directions; iron post stamped "Prim. Trav. Sta. No. 2, 1917, Mac." Azimuth to nail in pine tree on north side of road, 295° 06' 30".....	34 08 22.5	77 53 37.5	5,040
Angle of 21° in road, on center line both ways.....	34 07 30.5	77 53 59.7	5,582
Second-class crossroads.....	34 06 51.1	77 54 03.5	3,996
Angle of 15½° in road, opposite church on west.....	34 05 52.0	77 53 57.3	6,000
Angle of 23½° in road, on center line both ways.....	34 04 39.0	77 53 39.4	7,530
Fork of road.....	34 03 45.6	77 53 55.9	5,570
Old road crossing at telephone line.....	34 03 04.4	77 54 08.6	4,300
Avenue east to Carolina Beach.....	34 02 11.0	77 54 25.0	5,580
Avenue east to Wilmington Beach.....	34 01 18.8	77 54 44.6	5,530
Angle of 9½° in road, on center line both ways.....	34 00 09.3	77 54 53.5	7,063
T road east to beach.....	34 00 00.0	77 54 56.5	973

## WILMINGTON QUADRANGLE—Continued.

## Northwest along highways.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Primary traverse station No. 2, 1917, Mac.....	34 08 22.5	77 53 37.5	.....
Second-class crossroads.....	34 08 46.0	77 54 00.3	3,050
Angle of $13\frac{1}{2}^{\circ}$ in road, on center line both ways.....	34 10 04.1	77 55 16.3	10,158
Second-class crossroads.....	34 11 00.3	77 55 48.5	6,297
T road west.....	34 12 10.5	77 56 28.6	7,850
Center of bridge.....	34 12 43.0	77 56 44.6	3,560
Wilmington, crossing of Third and Wright streets.....	34 13 21.2	77 56 41.1	3,874
Wilmington, St. James Church triangulation station.....	34 14 05.93	77 56 45.7	4,535

Magnetic declination for northwest part of quadrangle,  $2^{\circ} 40' W$ .

## West along road and electric railway between Wilmington and Wrightsville Beach.

New Kirk triangulation station.....	34 14 05.57	77 47 52.56	.....
Center of driveway at north-side entrance to winter lodge of Pembroke Jones, of New York City. Point is 10 feet north of concrete wall at entrance.....	34 13 51.1	77 48 14.9	2,382
Wrightsville station on electric car line, about 500 feet north of, center of bridge over tidewater.....	34 13 11.9	77 48 51.6	5,017
Public-road crossing, south track.....	34 13 13.2	77 49 35.6	3,702
Public-road crossing.....	34 13 09.6	77 49 57.9	1,900
Seagate station, public-road crossing.....	34 12 43.5	77 50 17.5	3,112
Intersection of two long tangents (about $15^{\circ}$ angle) on electric railway.....	34 12 36.4	77 51 23.2	5,570
Road crossing.....	34 12 43.7	77 52 30.1	5,660
Winter Park Gardens, road crossing, center of south track.....	34 12 48.05	77 53 10.69	3,440
Adjusted position.....	34 12 46.90	77 53 11.40	.....
(Latitude error $+1.15''$ , longitude error $-0.71''$ , not adjusted.)			



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