

## SOUTH CAROLINA.

### PRIMARY TRAVERSE.

Aiken, Allendale, Augusta, Awensdaw, Bamberg, Batesburg, Bishopville, Bonneau, Bowman, Bulls Island, Calibogue Sound, Camp Jackson Artillery Field, Chapin, Charleston, Chicora, Clarks Hill, Conway, Cordesville, Cottageville, Cummings, Edgefield, Edisto Island, Edmund, Ellenton, Elliot, Elloree, Eutawville, Fort Motte, Georgetown, Green Pond, Greens Cut, Guide, Hagood, Hardeeville, Hopkins, Hyman, Indiantown, James Island, Kingstree, Lexington, Lodge, Loris, Manning, Marion, Mayesville, Myrtle Beach, Nichols, Nixonville, Oakton, Okatie, Olar, Orangeburg, Parksville, Peeples, Pineland, Prosperity, Ravenels, Rhems, Ridgeville, Rimini, St. George, St. Matthews, Saluda, Santee, Savannah, Scranton, Seivern, Shirley, Summerville, Sumter, Talatha, Timmons ville, Trio, Varnville, Wadmclaw Island, Walterboro, Wampee, Warrenville, Waverly Mills, Williston, Woodford, Yauhannah, and Yemassee quadrangles.

AIKEN, BAMBERG, BARNWELL, BEAUFORT, BERKELEY, CALHOUN, CHARLESTON, CLARENDON, COLLETON, DORCHESTER, EDGEFIELD, FLORENCE, GEORGETOWN, HAMPTON, HORRY, JASPER, LEXINGTON, ORANGEBURG, SUMTER, AND WILLIAMS-BURG COUNTIES.

Credit for the work is given at the head of each quadrangle list.

For additional geographic positions in South Carolina see U. S. Geological Survey Bulletins Nos. 181, 276, and 310. The U. S. Coast and Geodetic Survey has many unpublished data.

#### AIKEN QUADRANGLE.

Along Southern Ry. near west border of quadrangle. (By B. H. Yoakum in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Milepost 15, railroad track opposite.....	33 39 48.0	81 44 08.0	.....
Milepost 16, road crossing near.....	33 39 34.7	81 43 14.2	4,743
Trestle A. B. 16.2, north end of.....	33 39 16.7	81 43 01.7	2,107
Lakeview, railroad track, opposite station sign.....	33 38 57.2	81 42 49.5	2,230
Milepost 18, railroad track opposite.....	33 37 55.6	81 42 27.1	6,507
Croft, 350 feet northwest of station, 50 feet east of wagon road, 18 feet north of railroad; iron poststamped "Prim. Trav. Sta. No. 5, 1918 Y".....	33 37 20.7	81 42 05.7	3,061
Trestle A. B. 19.5, north end of.....	33 36 52.2	81 41 46.1	3,329
Milepost 20, railroad track opposite.....	33 36 24.4	81 41 57.2	2,968
Pine Ridge, railroad track, opposite signboard.....	33 35 26.2	81 42 22.5	6,260
Milepost 22, railroad track opposite.....	33 34 45.4	81 42 20.6	4,120
Aiken, road crossing 1 mile north of.....	33 34 14.7	81 42 32.9	3,273
Aiken, railroad track, opposite milepost 23.....	33 33 56.6	81 42 43.9	2,055
Aiken, iron post 96, 1917 Mac.....	33 33 17.6	81 42 34.0	4,025
Aiken, corner of South Boundary Avenue and Chesterfield Street.....	33 33 16.0	81 43 17.5	3,683
James Weatherford's residence, road forks at.....	33 31 49.4	81 43 25.9	8,774
Millbrook Church, crossroads 500 feet west of.....	33 31 25.2	81 43 11.2	2,737
Aiken, 4 miles south of, 1.5 miles southeast of Millbrook Church on Whiskey Road, 20 feet south of crossroads; iron post stamped "Prim. Trav. Sta. No. 14, 1918 Y".....	33 30 03.4	81 42 22.3	9,250

## AIKEN QUADRANGLE—Continued.

Along highway near north border of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Tenant house owned by C. B. Gunner, T road east at.....	33	44	18.0	81	30	55.6	.....
Jones crossroads, 1 mile southwest of.....	33	44	59.7	81	33	19.6	.....
George Stack's gin, T road at.....	33	44	33.9	81	33	41.0	3,167
Merrit's bridge, crossroads 1,600 feet northeast of.....	33	42	46.4	81	34	12.0	11,170
Crossroads at mail box, 275 feet east of another crossroad.....	33	42	43.0	81	34	45.9	2,888
Road forks at mail box.....	33	42	38.0	81	35	13.8	2,404
Tenant house occupied by Eliza Belle, road opposite.....	33	42	51.8	81	35	56.8	3,897
Sawmill owned by Henry Jordan, bridge over mill race.....	33	43	03.7	81	36	27.4	2,850
Road fork, in horseshoe bend of road.....	33	43	51.3	81	36	57.7	5,451
W. B. Saunders's mail box, road forks 300 feet southeast of.....	33	44	29.3	81	38	04.2	6,798
Ergle's bridge, 2 miles northeast of, 600 feet north of house owned by C. B. La Fitte, 40 feet northwest of crossroads; iron post stamped "Prim. Trav. Sta. No. 13, 1918 Y".....	33	44	54.7	81	38	36.8	3,763
Mr. Gregory's house, crossroads at.....	33	44	32.9	81	42	24.4	.....
Long Branch negro school, forks of road 500 feet west of.....	33	44	10.0	81	43	13.0	4,711
Richard Ripplin's house, crossroads 500 feet north of.....	33	43	01.5	81	44	00.0	7,990
Eureka, about 2 miles northeast of, T road east, 50 feet north of T road west.....	33	42	49.2	81	44	53.1	4,660

Along Southern Ry. near south border of quadrangle.. (By E. L. McNair in 1918.)

Apia spur, road crossing at switch stand.....	33	30	01.2	81	32	03.6	.....
Milepost 47, center of track opposite.....	33	30	14.8	81	32	30.9	2,696
Intersection of tangents.....	33	30	34.8	81	33	29.2	5,329
Road crossing.....	33	30	46.9	81	34	21.4	4,590
Oakwood station, road crossing at.....	33	30	58.5	81	35	11.8	4,422
Road crossing.....	33	31	09.4	81	35	58.8	4,131
Road crossing.....	33	31	16.5	81	36	29.9	2,723
Road crossing.....	33	31	24.7	81	37	05.1	3,096
Montmorenci station, 160 feet northwest of, 60 feet north of center of track, near fence corner; iron post stamped "Prim. Trav. Sta. No. 95, 1918 Mac." Azimuth to switch stand, 288° 45' 15".....	33	31	39.5	81	38	05.7	5,330
Road crossing.....	33	32	05.1	81	38	53.2	4,795
Milepost 54, center of track opposite.....	33	32	16.4	81	39	20.3	2,558
Road crossing at old store.....	33	32	31.7	81	40	11.0	4,564
Road crossing.....	33	32	38.5	81	40	33.4	2,015
Road crossing.....	33	32	46.1	81	40	58.3	2,245
Road crossing.....	33	33	03.1	81	41	49.6	4,671
Aiken freight station, 125 feet west of, 25 feet southeast from center of track running to 90 feet southwest from street crossing; iron post stamped "Prim. Trav. Sta. No. 96, 1918 Mac." Azimuth to Catholic Church spire, 109° 39' 30".....	33	33	17.6	81	42	34.0	4,033
Street crossing, overhead.....	33	33	27.0	81	43	28.0	4,663
Road crossing.....	33	33	30.7	81	44	50.6	7,005

Along highways through center of quadrangle. (By B. H. Yoakum in 1918.)

Shaw's Creek, center of bridge over.....	33	39	32.8	81	43	05.4	.....
Crossroads, 120 feet west of, on south side, 3-inch iron pipe.....	33	39	35.5	81	42	49.7	1,357
Shiloh Church, 200 feet north of, T road south.....	33	39	30.5	81	42	20.8	2,492
Crossroads.....	33	39	32.4	81	42	03.0	1,505
Road forks.....	33	40	03.9	81	40	28.7	8,589
Road forks.....	33	40	21.1	81	39	39.2	4,533
Crossroads.....	33	40	39.5	81	38	45.9	4,871
Road forks.....	33	40	56.6	81	37	42.2	5,652
Crossroads.....	33	40	59.7	81	37	13.0	2,485
Merrit's bridge, 0.4 mile southwest of, road forks.....	33	41	04.8	81	36	31.5	3,539
Merrit's bridge, east end of.....	33	41	10.8	81	36	11.0	1,831
Crossroads, 200 feet north of L. H. Fox's residence.....	33	41	04.4	81	35	38.8	2,803
Aaron Moore's residence, in front of, on north side of road, in root of red-oak tree; copper nail and washer.....	33	40	28.0	81	34	45.0	5,842
Earle post office, 0.25 mile northeast of, 46 feet south of mail box No. 79, in angle between road forks; iron post stamped "Prim. Trav. Sta. No. 10, 1918 Y".....	33	39	27.6	81	33	58.9	7,248
W. W. Coleman's cotton gin and sawmill, road forks at.....	33	39	05.3	81	33	49.3	2,386
Crossroads.....	33	38	51.1	81	33	28.0	2,298
New Holland road, center of, T road south, 330 feet west is T road north.....	33	38	37.5	81	32	52.5	3,300
T road north.....	33	38	12.9	81	32	40.1	2,697
B. K. Boyston's residence, in front of, on north side of road, at foot of gum tree.....	33	38	32.0	81	31	35.9	5,765
Sam Anderson's residence, 500 feet west of, crossroads.....	33	38	41.1	81	30	40.4	4,778

## AIKEN QUADRANGLE—Continued.

Along highways near east border of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Crossroads.....	33	31	15.8	81	30	01.9	.....
Crossroads.....	33	30	34.7	81	30	18.6	4,381
Crossroads.....	33	30	04.7	81	30	38.9	3,486

Magnetic declination through center of quadrangle, 0° 35' E.; for east border of quadrangle, 0° 20' E.

Near southeast corner of quadrangle. (By G. T. Hawkins in 1918.)

Forks of road northwest.....	33	30	16.5	81	30	29.3	.....
Crossroads, 20 feet southwest to mail box.....	33	30	57.4	81	30	17.3	4,265
Northwest corner of crossroads; iron post stamped "Elev. 385 feet".....	33	31	15.9	81	30	02.0	2,268

Northwest across northeast corner of quadrangle. (By E. L. McNair in 1919.)

T road easterly.....	33	44	18.1	81	30	55.7	.....
Road forks, 700 feet south of schoolhouse.....	33	44	49.5	81	31	21.4	3,848

## ALLENDALE QUADRANGLE.

Along Charleston &amp; Western Carolina Ry. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road crossing at milepost 53.....	33	00	19.7	81	18	15.5	.....
Allendale longitude station (U. S. Coast and Geodetic Survey), 11.09 meters south and 0.32 meter east of latitude station, 21.50 meters distant from brick pier which forms the northeast support of church, 16.72 meters distant from large double pine tree, which has 5 nails driven in the southeast face; concrete pier about 19 by 34 by 60 inches, projecting 3 feet above surface of ground, with drill hole in top marking center; top is marked "U. S. C. & G. S. '07".....	33	00	31.12	81	18	40.65	2,432

Only one observation for magnetic declination, 0° 22' E.

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

Crossing of Southern Ry. under Atlantic Coast Line R. R. ....	33	14	18.8	81	21	13.6	.....
Barnwell station, opposite and across track from east end of, on bank about 3 feet higher than track; iron post stamped "Prim. Trav. Sta. No. 102, 1918 Mac;" azimuth to city water tower, 211° 35' 20"; to flag on public school, 217° 50' 20".....	33	14	15.5	81	21	31.6	1,565
Second-class road crossing.....	33	14	02.3	81	22	57.8	7,445
Creek crossing, 600 feet west of water tank, in center of stream.....	33	13	55.0	81	23	44.1	4,005
Public-road crossing.....	33	13	55.5	81	24	23.2	3,319
Second-class road crossing.....	33	14	02.0	81	24	42.8	1,785
Road crossing.....	33	14	09.0	81	25	41.4	5,029
Road crossing.....	33	14	11.0	81	26	20.9	3,365
Snelling station, across track from and about east of, 30 feet west of milepost 84; iron post stamped "Prim. Trav. Sta. No. 103, 1918 Mac".....	33	14	21.3	81	27	17.5	4,919
Road crossing.....	33	14	26.7	81	27	40.2	2,007
Milepost 85.....	33	14	20.9	81	28	18.0	3,257
Road crossing.....	33	13	54.3	81	29	15.7	5,592
Road crossing.....	33	13	31.5	81	29	48.4	3,617

## ALLEDALE QUADRANGLE—Continued.

## Southeast along Charleston &amp; Western Carolina Ry.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Public-road crossing.....	33	04	18.8	81	29	42.9	.....
Martin's station, public-road crossing.....	33	04	07.3	81	28	34.2	5,962
Farm-road crossing.....	33	04	36.7	81	27	04.6	8,185
Center of trestle bridge over creek.....	33	04	54.7	81	26	30.0	3,457
Beldoc station, about 150 feet southeast of, 20 feet south by 25 feet east of road crossing; iron post stamped "Prim. Trav. Sta. No. 100, 1918 Mac"; azimuth to center pole on top of water tank, 292° 43' 40".....	33	04	45.2	81	25	19.9	6,042
Beldoc, U. S. Coast and Geodetic Survey traverse station, first curve south of Beldoc station, 28 feet from center of track, on edge of swamp; nail in pine stub.....	33	04	39.61	81	25	03.27	1,526
Road crossing.....	33	04	10.5	81	24	21.1	4,640
Farm-road crossing.....	33	04	05.6	81	23	44.4	3,154
Road crossing, 550 feet north of switch stand at spur.....	33	03	56.1	81	23	11.2	2,987
Road crossing.....	33	02	52.9	81	22	11.7	8,151
Appleton, public-road crossing, center line of road southwest.....	33	02	36.5	81	21	40.9	2,680
Road crossing.....	33	02	05.8	81	21	00.7	5,010
Curve A (U. S. C. & G. S.), intersection of tangents.....	33	01	48.29	81	20	34.27	2,860
Milepost 51.....	33	01	22.8	81	19	53.5	4,325
Public-road crossing.....	33	00	51.3	81	19	03.0	5,355
Alledale, U. S. Coast and Geodetic Survey traverse station, at first curve north of railroad station, at end of 36-mile tangent from Yemassee (curve is so slight that station falls 2 feet outside of rail); a 2-foot drain tile set in cement, with nail marking center. It is about 8 inches below surface and right at end of ties.....	33	00	40.13	81	18	44.93	1,911
Alledale, 200 feet north of railroad station, 21 feet west and 17 feet south of crossing of Southern Ry. and Charleston & Western Carolina Ry., on bank about 2.5 feet above track; iron post not stamped. Azimuth to spire of Happy Home Baptist Church (colored), 145° 20' 15".....	33	00	30.5	81	18	31.6	1,497

## Northwest along Southern Ry. near center of quadrangle. (By H. S. Senseney in 1918.)

Alledale; iron post marked "Mac," not stamped.....	33	00	30.5	81	18	31.6	.....
Road crossing.....	33	01	15.4	81	18	41.4	4,613
Road crossing.....	33	01	55.4	81	18	53.2	4,170
Road crossing.....	33	02	22.3	81	19	01.0	2,800
Seigling, road crossing at station.....	33	02	41.9	81	19	06.8	2,040
Road crossing.....	33	03	21.0	81	19	18.3	4,075
Road crossing 175 feet north of milepost 183.....	33	03	45.9	81	19	25.6	2,585
Road crossing.....	33	04	13.3	81	19	33.7	2,855
Mathis, road crossing.....	33	04	44.0	81	19	42.7	3,195
Cave, road crossing at.....	33	05	36.1	81	19	58.0	5,425
Road crossing.....	33	06	25.2	81	20	12.4	5,115
Road crossing.....	33	06	52.9	81	20	20.6	2,885
Kline, road crossing.....	33	07	27.1	81	20	30.6	3,555
Kline, 750 feet north of station, 65 feet east of railroad crossing, 10 feet south of east and west road, azimuth to northeast corner of red-brick schoolhouse is 295° 38' 20"; iron post stamped "Prim. Trav. Sta. No. 11 S, 1918".....	33	07	34.5	81	20	31.9	757
Road crossing.....	33	08	00.0	81	20	40.3	2,676
Road crossing.....	33	08	20.9	81	20	46.5	2,180
Road crossing.....	33	08	40.8	81	20	52.3	2,070
Road crossing.....	33	09	06.9	81	21	00.0	2,720
Road crossing.....	33	09	42.3	81	21	04.1	3,593
Road crossing.....	33	09	58.8	81	21	02.8	1,670
Road crossing.....	33	10	36.1	81	20	59.9	3,780
Yenome, road crossing.....	33	10	56.8	81	20	58.2	2,095
Road crossing.....	33	11	34.3	81	20	56.9	3,795
Road crossing.....	33	11	59.8	81	20	03.7	2,648
Salkehatchie River, north end of trestle over.....	33	12	31.0	81	21	12.4	3,240
Road crossing.....	33	12	55.5	81	21	14.0	2,477
Road crossing.....	33	13	15.4	81	21	13.9	2,015
Road crossing.....	33	13	37.6	81	21	13.8	2,240
Road crossing.....	33	14	03.2	81	21	13.7	2,585
Barnwell, crossing of Southern Ry. over Atlantic Coast Line R. R. Barnwell, Prim. Trav. Sta. No. 102, 1917 Mac. (previously described).....	33	14	18.6	81	21	13.6	1,560
	33	14	15.5	81	21	31.6	1,562



## ALLENDALE QUADRANGLE—Continued.

East along highways through center of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Kline, 750 feet north of station; iron post stamped "Prim. Trav. Sta. No. 11 S, 1918".....	33	07	34.5	81	20	31.9	.....
Road forks.....	33	07	44.9	81	19	52.1	3,550
Second-class T road south.....	33	08	00.9	81	19	12.7	3,720
Second-class T road south.....	33	08	12.1	81	18	30.4	3,774
Road fork.....	33	08	12.8	81	18	07.5	1,946
T road west.....	33	08	36.5	81	17	53.8	2,662
Crossroads.....	33	08	31.5	81	17	40.8	1,218
T road north.....	33	08	35.0	81	17	14.0	2,307
T road northeast.....	33	08	31.5	81	16	32.2	3,575
Big Forks School, road fork.....	33	08	54.0	81	15	58.5	3,659
Crossroads.....	33	08	32.7	81	15	20.9	3,854

Northwest along highways near center of quadrangle.

Kline, Prim. Trav. Sta. No. 11 S.....	33	07	34.5	81	20	31.9	.....
Road forks.....	33	08	28.2	81	21	04.4	6,094
Second-class T road south.....	33	08	34.5	81	21	50.3	3,953
Second-class T road south.....	33	08	55.7	81	22	37.4	4,547
Crossroads.....	33	09	16.8	81	23	21.7	4,327
Crossroads.....	33	09	23.5	81	24	03.7	3,638
Second-class T road south.....	33	09	31.4	81	24	34.0	2,695
Crossroads.....	33	09	46.7	81	25	44.7	6,206
Crossroads.....	33	09	55.5	81	26	24.5	3,502
Road fork.....	33	09	59.5	81	26	43.9	1,695
Road fork.....	33	10	22.0	81	27	03.8	2,831
Road fork.....	33	10	35.6	81	27	30.1	2,628
Crossroads.....	33	10	40.6	81	27	53.1	2,018

South near west border of quadrangle.

Road fork.....	33	10	36.8	81	28	43.4	4,280
Road fork.....	33	10	26.3	81	28	58.6	1,691
T road east.....	33	09	54.3	81	29	12.3	3,445
Salem Church, T road west.....	33	08	34.7	81	29	33.3	8,240
Martin, 5.5 miles north of, 0.35 mile south of Salem Church, 12 feet north and 15 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 10 S, 1918".....	33	08	16.8	81	29	39.1	1,870
Road fork.....	33	07	57.4	81	29	42.0	1,979
Road fork, at sign, "Millets 3 miles".....	33	07	11.0	81	29	53.1	4,786
T road west.....	33	06	28.2	81	29	31.2	4,715
Crossroads, west of Three Runs Church.....	33	05	39.9	81	29	28.8	4,884
Lane northeast to house.....	33	05	18.4	81	29	12.4	2,585
Road fork.....	33	04	51.2	81	28	41.8	3,744
Road fork.....	33	04	34.0	81	28	42.1	1,734
North end of bridge over Lower Three Runs Creek.....	33	04	23.7	81	28	37.3	1,123
Station 1497=Station 1157.....	33	04	07.3	81	28	34.2	1,674

North along highways near west border of quadrangle.

Road fork.....	33	10	36.8	81	28	43.4	.....
Crossroads.....	33	11	26.0	81	28	04.0	5,986
Crossroads.....	33	11	48.8	81	27	56.8	2,396
Crossroads.....	33	12	27.2	81	27	45.0	4,012
Crossroads.....	33	12	36.4	81	27	41.5	977
Road fork, east of south end of pond.....	33	13	06.4	81	27	28.2	3,239
Crossroads.....	33	14	00.2	81	27	35.1	5,464
Snelling, Prim. Trav. Sta. No. 102, 1917 Mac.....	33	14	21.3	81	27	17.5	2,609

Magnetic declination for west border of quadrangle,  $0.5^{\circ}$  E.; for center of quadrangle,  $0.6^{\circ}$  W.

North along highways near east border of quadrangle. (By H. S. Senseney in 1918.)

Road forks at Big Forks School.....	33	08	54.0	81	15	58.5	.....
Crossroads.....	33	09	31.8	81	15	28.8	4,586
North end of bridge over Salkehatchie River.....	33	10	08.6	81	15	30.3	3,768

## ALLEDALE QUADRANGLE—Continued.

North along highways near east border of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road forks.....	33	10	33.6	81	15	25.8	2,684
Road fork at blazed pine tree on north side of road.....	33	10	49.8	81	15	10.7	2,085
T road north.....	33	13	06.2	81	15	24.1	.....
Crossroads.....	33	13	11.8	81	15	57.3	2,879
Road fork.....	33	13	42.8	81	15	51.0	3,179
Crossroads, south of creek.....	33	14	03.8	81	15	32.2	2,652

Magnetic declination along east border of quadrangle, 0.9° W.

West along highways near south border of quadrangle. (By H. S. Senseney in 1918.)

Allendale, iron post not stamped.....	33	00	30.5	81	18	31.6	.....
Crossroads.....	33	00	25.6	81	19	10.3	3,332
Road forks.....	33	00	17.0	81	19	41.8	2,820
Road forks at negro cabin.....	33	00	15.8	81	19	53.9	1,040
Crossroads.....	33	00	11.2	81	22	58.3	.....
Road forks.....	33	00	17.9	81	23	32.6	3,005
Crossroads.....	33	00	26.5	81	24	00.6	2,539
Road forks.....	33	00	05.1	81	24	33.5	3,533
Crossroads.....	33	00	13.5	81	25	13.6	3,520
Road forks at blazed pine tree.....	33	00	30.8	81	25	50.2	3,574
Crossroads.....	33	00	29.3	81	26	21.0	2,635
Crossroads.....	33	00	29.1	81	26	37.0	1,360
Crossroads at mail boxes 43 and 44.....	33	00	37.3	81	27	13.8	3,241
Crossroads.....	33	00	29.9	81	27	42.2	2,535
Martin, 4 miles south of and about 1 mile east of White Womans Point, 15 feet north and 15 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 9 S., 1918." Azimuth to head of nail in blaze on tree 305 feet north of post and on east side of road is 172° 23' 15".....							
Crossroads.....	33	00	29.5	81	28	47.6	5,573
Road forks at blazed pine tree.....	33	01	05.1	81	28	48.5	3,590
Road forks at blazed pine tree.....	33	01	26.5	81	28	52.5	2,196
Second-class T road east.....	33	01	42.2	81	29	01.3	1,753
Crossroads at blazed pine tree.....	33	02	17.5	81	29	02.9	3,568
Second-class T road east.....	33	02	48.0	81	29	01.1	3,088
Crossroads.....	33	03	22.0	81	28	54.9	3,474
Martin, south end of, road fork.....	33	03	51.6	81	28	37.2	3,353
Martin, railroad crossing.....	33	04	07.3	81	28	34.2	1,608

Mean magnetic declination along north border of quadrangle, 0.3° W.

Near southwest corner of quadrangle.

T road west.....	33	00	19.2	81	28	42.1	.....
Prim. Trav. Sta. No. 9 S (previously described).....	33	00	29.5	81	28	47.6	1,130
White Womans Landing, Army bench mark No. 24, on checked spur line. Azimuth to head of nail in triangular blaze on cypress tree is 171° 54' 05".....	33	00	33.8	81	29	28.2	3,476

Near northwest corner of quadrangle. (By B. H. Yoakum in 1918.)

T road southwest.....	33	14	49.2	81	28	44.5	.....
Crossroads.....	33	14	32.6	81	27	41.1	5,632

## AUGUSTA QUADRANGLE.

Southeast along Southern Ry. (By E. L. McNair in 1918.)

Beech Island triangulation station (U. S. C. & G. S.), about 1 mile south of Beech Island railroad station, on slight rise 15 feet above track, about 100 feet from where track passes station; on land of Maj. W. W. Woolsey of Aiken, S. C., on narrow strip between railroad and a cotton field, 400 meters from section house on opposite side of track. Station mark: A 6-inch drain tile filled with cement in which is a spike which marks the center of station, marked "U. S. C. & G. S. 1901".....							
Road crossing.....	33	23	41.27	81	53	22.58	.....
Twigg's Spur, 135 feet north of switch stand, road crossing.....	33	23	32.9	81	53	16.1	1,007
Private road crossing.....	33	23	10.2	81	52	55.1	2,907
Trestle over small stream.....	33	22	40.0	81	52	28.5	3,800
Road crossing.....	33	22	17.3	81	52	08.5	2,845
Road crossing.....	33	21	57.8	81	51	51.2	2,460

**AUGUSTA QUADRANGLE—Continued.**  
**Southeast along Southern Ry.—Continued.**

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Brown's flag station, 400 feet north of, road crossing.....	33	21	27.4	81	51	24.4	3,820
Kathwood siding, switch stand at north end of.....	33	20	55.6	81	50	56.4	4,000
Kathwood flag station, road crossing.....	33	20	36.8	81	50	39.8	2,365
Hankinson flag station, road crossing.....	33	19	49.8	81	49	58.3	5,910
Road crossing.....	33	18	53.3	81	49	08.4	7,115
Jackson station, 400 feet N. 35° W. of, 35 feet north and 20 feet east of public-road crossing, 35 feet northeast of center of main track; iron post stamped "Prim. Trav. Sta. No. 97, 1917 Mac." Azimuth to semaphore post in front of station is 139° 57' 15".	33	18	22.2	81	48	40.5	3,933
Jackson siding, switch stand at south end of.....	33	18	07.4	81	48	28.0	1,836
Road crossing near water tank.....	33	17	14.0	81	47	40.8	6,720
Second-class road crossing.....	33	16	33.8	81	47	05.4	5,050
Second-class road crossing.....	33	15	55.6	81	46	31.7	4,815
Bush flag station, road crossing.....	33	15	11.5	81	45	52.9	5,545

**Northeast along Southern Ry. (By B. H. Yoakum in 1918.)**

Augusta, old post office building, U. S. Coast and Geodetic Survey triangulation station.....	33	28	25.52	81	58	08.00	.....
Augusta, Southern Ry., at center of Green Street crossing, west rail joint.....	33	28	19.1	81	57	45.7	1,997
Aiken highway crossing.....	33	28	54.5	81	57	01.7	5,168
Hamburg station, opposite semaphore, center of main track.....	33	28	46.7	81	56	44.2	1,700
Hamburg, 1 mile east of, opposite "Station 1 mile" sign, center of track.....	33	28	28.6	81	55	46.2	5,250
Hamburg, 2 miles east of, at road crossing, center of track.....	33	28	28.2	81	55	00.2	3,894
Horse Creek station, 1 mile west of, opposite "1 mile" post, center of track.....	33	28	52.3	81	54	32.6	3,373
Horse Creek station, 1,465 feet west of, road crossing.....	33	29	15.2	81	53	56.6	3,829

**Along highways through center of quadrangle. (By B. H. Yoakum in 1918.)**

Road forks, 350 feet west of Zion Hill Church.....	33	24	11.0	81	45	34.1	.....
Talatha, 6 miles west of, 550 feet southeast of bridge over Holley Creek, in northwest angle of triangle formed by road forks; iron post stamped "Prim. Trav. Sta. No. 16, 1918 Y".....	33	24	22.7	81	47	01.7	7,517
Road forks.....	33	23	44.4	81	48	05.3	6,640
Center of bridge over Town's Creek.....	33	23	22.7	81	48	47.9	4,223
Crossroads at Murray's store.....	33	22	56.0	81	49	55.7	6,353
Private crossroads.....	33	22	21.7	81	50	30.3	4,538
Crossroads.....	33	21	31.3	81	50	35.3	5,100
Road forks.....	33	22	09.5	81	51	27.1	5,849

**Near southeast corner of quadrangle.**

Crossroads.....	33	15	13.6	81	45	30.7	.....
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**From Charleston & Western Carolina Ry. to Savannah River.**

Hankinson flag station, road crossing at.....	33	19	49.8	81	49	58.2	.....
Road forks.....	33	19	12.5	81	50	36.8	4,996
Silver Bluff Landing, Army b. m. No. 15.....	33	18	38.4	81	51	25.0	5,340

**Along Charleston & Western Carolina Ry. from Augusta southeast. (By E. L. McNair in 1918.)**

Savannah River bridge, center swing span.....	33	26	07.1	81	54	52.1	.....
Road crossing.....	33	25	40.1	81	54	47.9	2,756
Road crossing.....	33	24	45.8	81	54	27.5	5,752
Road crossing.....	33	24	16.0	81	54	06.9	3,485
Road crossing.....	33	24	00.6	81	53	46.7	2,313
Beech Island, U. S. Coast and Geodetic Survey triangulation station (previously described).....	33	23	41.3	81	53	22.6	2,830

**On Savannah River. (By B. H. Yoakum in 1918.)**

Augusta, 4 miles east of, about 150 feet southwest of ferry landing, on south side of wagon road; concrete post, marked "U. S. C. E. B. M. No. 4".....	33	26	24.1	81	54	54.2	.....
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## AWENSDAW QUADRANGLE.

Northeast along highways through southeast corner of quadrangle. (By Oscar Jones in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Center of small bridge.....	33	00	31.7	79	38	18.9	Feet.
Center of small bridge.....	33	00	45.9	79	38	04.6	1,959
Crossroads.....	33	01	22.1	79	37	48.3	3,819
Center of bridge over Awensdaw Creek.....	33	01	47.5	79	37	30.1	2,999
Road fork.....	33	02	13.2	79	36	59.0	3,707
Center of small bridge.....	33	02	17.5	79	36	03.4	4,750
Road fork.....	33	02	41.6	79	34	56.4	6,203
Crossroads.....	33	02	43.6	79	34	07.4	4,177
Crossing tramway.....	33	03	00.6	79	33	49.3	2,310
Road fork at milepost 29.....	33	03	31.7	79	33	10.5	4,557
Road fork.....	33	04	07.8	79	32	45.7	4,212
Northeast end of long tangent.....	33	05	10.1	79	31	33.5	8,800
McClellansville, 3 miles west of, at intersection of road at 32-mile house; post stamped "Prim. Trav. Sta. No. 2 J".....	33	05	33.5	79	31	04.6	3,405
Junction with line east and west.....	33	05	35.7	79	31	04.4	230
Center of road, opposite house and gate.....	33	06	45.1	79	30	16.2	8,118

## Southeast along highways through quadrangle. (By Oscar Jones in 1917.)

Center of bridge.....	33	14	52.1	79	38	23.3	-----
Center of road, opposite house and gate.....	33	14	17.5	79	38	14.9	3,564
Crossing of tramway.....	33	13	40.2	79	37	50.7	4,292
Road fork.....	33	13	12.4	79	37	21.5	3,748
Center of road, opposite school.....	33	12	27.2	79	37	02.2	4,857
Road fork, 250 feet east of bridge.....	33	11	41.1	79	36	27.3	5,517
Road fork.....	33	11	31.5	79	36	14.6	1,450
Fork of roads to Honey Hill and McClellansville; iron post stamped "Prim. Trav. Sta. No. 8 J".....	33	10	42.4	79	35	20.9	6,737
Crossroads.....	33	11	05.9	79	34	44.3	3,916
Crossroads.....	33	11	01.5	79	33	58.0	3,959
Road fork.....	33	10	30.6	79	33	35.2	3,674
Road fork.....	33	09	48.5	79	32	55.8	5,412
Center of small culvert.....	33	09	35.1	79	32	47.9	1,510
Center of small culvert.....	33	09	11.8	79	32	34.1	2,630
Center of bridge.....	33	09	03.1	79	32	34.5	878
Road fork.....	33	08	01.7	79	32	42.9	5,200
Center of bridge.....	33	07	36.9	79	32	28.8	3,720
Center of bridge.....	33	07	09.2	79	32	14.8	3,041
Center of small bridge over ditch.....	33	06	42.2	79	31	51.8	3,352
Station 1544=198, BA 3721, junction line north and south.....	33	05	35.7	79	31	04.4	7,831
Center of road, opposite milepost 33.....	33	05	44.0	79	30	22.9	3,627

## Southwest along highways.

Prim. Trav. Sta. No. 8 (previously described).....	33	10	42.4	79	35	20.9	-----
Center of road, opposite pine tree on west side of road, marked "U. S.".....	33	09	26.1	79	36	38.3	10,140
Crossroads.....	33	08	56.7	79	37	26.7	5,064
Crossroads at Posed.....	33	08	16.5	79	38	01.1	5,006
Road fork.....	33	07	39.5	79	38	12.5	3,862
Crossroads.....	33	07	10.4	79	38	44.2	3,986
Center of road, opposite school.....	33	06	52.6	79	38	50.0	1,867
Road fork at house.....	33	06	35.1	79	38	56.3	1,848
Halfway Creek, center of bridge over.....	33	05	20.9	79	39	43.8	8,513
Center of road, opposite pine tree on east side marked "U. S.".....	33	04	35.3	79	40	39.1	6,586
Road fork.....	33	04	06.9	79	41	03.4	3,537
Road fork.....	33	03	24.6	79	41	45.6	5,579
Road fork.....	33	02	50.5	79	42	05.0	3,819
Crossroads.....	33	02	37.2	79	42	28.2	2,385
Road fork.....	33	02	13.2	79	43	02.6	3,804
Road fork.....	33	01	51.3	79	43	11.4	2,333
Tramway crossing.....	33	01	48.9	79	43	19.3	715
Road fork.....	33	01	25.3	79	43	56.0	3,930
(McNair takes line.)							
Road crossing at Tuxbury Lumber Co.'s railroad.....	33	00	17.3	79	44	37.7	7,736

Magnetic declination for southwest part of quadrangle, 1.2° W.

## AWENSDAW QUADRANGLE—Continued.

North along highways near east border of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Tie point.....	33 01 11.1	79 43 59.8	.....
Forks of road.....	33 01 21.8	79 43 57.0	1,102
Road crossing on Tuxbury Lumber Co.'s railroad.....	33 01 49.2	79 43 19.1	4,251
Road crossing.....	33 03 04.5	79 44 16.2	8,748
Right of way, at edge, in blazed spot on pine tree, 3 feet above ground; nail.....	33 03 24.8	79 44 33.2	2,510
Road crossing.....	33 03 54.9	79 44 59.5	3,785

## BAMBERG QUADRANGLE.

From Denmark southwest along Atlantic Coast Line R. R. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Denmark, crossing of Atlantic Coast Line and Seaboard Air Line railroads.....	33 19 11.1	81 08 39.1	.....
Road crossing.....	33 19 00.6	81 08 51.2	1,475
Road crossing, second class.....	33 18 15.2	81 09 43.6	6,399
Road crossing, public.....	33 17 55.5	81 10 14.1	3,255
Road crossing, public.....	33 17 24.6	81 11 08.3	5,566
Road crossing, second class.....	33 17 12.0	81 12 16.0	5,885
Road crossing.....	33 16 58.2	81 13 00.4	4,020
Road crossing.....	33 16 47.5	81 13 34.8	3,110
Road crossing, 20 feet east of milepost 71.....	33 16 27.3	81 14 39.4	5,850
Hildasta, 400 feet west of, 80 feet south of center of track; iron post stamped "Prim. Trav. Sta. No. 101, 1918, Mac." Azimuth to tower on public school is 265° 45' 15".....	33 16 22.7	81 14 51.4	1,123

## Northeast along Seaboard Air Line Ry.

Milepost 224.....	33 15 07.0	81 09 45.1	.....
Second-class road crossing.....	33 16 01.7	81 09 22.1	5,872
Road crossing, at spur siding.....	33 16 29.3	81 09 12.9	2,890
Second-class road crossing.....	33 16 56.4	81 09 03.7	2,855
Second-class road crossing.....	33 18 10.3	81 08 47.2	7,601
Second-class road crossing.....	33 18 30.4	81 08 44.5	2,040
Denmark, intersection of Seaboard Air Line and Atlantic Coast Line railroads.....	33 19 11.1	81 08 39.1	4,141
Denmark, 40 feet N. 56° E. from crossing of Southern Ry., and Seaboard Air Line Ry., 30 feet west of Seaboard Air Line Ry., in line with telephone poles; iron post stamped "Prim. Trav. Sta. No. 88, 1917 Mac." Azimuth to south edge of Bank of Denmark brick building is 277° 38' 45".....	33 19 33.60	81 08 35.75	.....

## East along Atlantic Coast Line R. R.

Crossing of Southern and Atlantic Coast Line railroads.....	33 19 28.7	81 08 18.7	1,520
Sato station, road crossing at east end of.....	33 19 18.2	81 07 38.8	3,550
Private-road crossing at milepost 18.....	33 19 05.0	81 06 49.2	4,420
Public-road crossing.....	33 18 55.8	81 06 14.3	3,105
Ottspur siding, road crossing.....	33 18 44.9	81 05 33.1	3,670
Private-road crossing.....	33 18 35.3	81 04 57.5	3,170
Private-road crossing.....	33 18 25.5	81 04 20.9	3,265
Private-road crossing.....	33 18 17.7	81 03 51.8	2,590
Public-road crossing.....	33 18 03.4	81 02 58.8	4,730
Bamberg station, 350 feet N. 54° W. of city water tower, 90 feet from northwest corner of Bamberg, Ehrhardt & Walterboro Ry. station, 18 feet west of center of track, and 20 feet north of center of street line; iron post stamped "Prim. Trav. Sta. No. 89, 1917 Mac." Azimuth to church 0.5 mile distant, 198° 28' 40"; to city water tower, 306° 07' 45".....	33 17 44.7	81 02 17.7	3,961
Intersection of railway tangents, angle of 8.5°.....	33 17 11.5	81 02 29.9	3,510
Public-road crossing.....	33 16 28.0	81 02 36.7	4,440
Pile bridge over creek crossing.....	33 16 04.0	81 02 37.3	2,420
Second-class road crossing.....	33 15 29.5	81 02 38.1	3,495

## BAMBERG QUADRANGLE—Continued.

West along highways near south border of quadrangle. (By H. S. Senseney in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Bamberg, 1.5 miles south of, 1,905 feet north of milepost marked "Bamberg 2, Ehr. 12," road crossing.....	33	16	28.0	81	02	36.7	.....
Second-class road west.....	33	15	44.9	81	03	06.0	5,014
Second-class road west.....	33	15	04.5	81	03	26.2	4,432
T road west to Glendale Springs.....	33	15	21.0	81	04	29.4	5,613
T road west at cotton gin (Ólar quadrangle).....	33	14	19.3	81	05	33.0	8,249
T road west.....	33	15	01.5	81	05	50.8	4,521
Bamberg, about 5 miles southwest of, on road to Govan, 15 feet north and 50 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 15 S, 1918".....	33	15	51.4	81	06	12.8	5,375
Second-class T road south.....	33	15	31.4	81	07	03.6	4,765
T road north.....	33	15	22.7	81	07	22.6	1,843
Crossroads.....	33	15	11.7	81	07	45.1	2,206

Magnetic declination for south border of quadrangle, 0.8° W.

Along Southern Ry. through center of quadrangle. (By E. L. McNair in 1918.)

Road crossing.....	33	19	51.4	81	09	29.3	.....
Road crossing.....	33	20	00.9	81	09	53.3	2,250
Road crossing at switch stand, Frogles spur.....	33	20	15.2	81	10	28.9	3,343
Road crossing.....	33	20	23.1	81	10	48.9	1,877
Milepost 23, center of track opposite.....	33	20	38.0	81	11	39.7	4,572
Lees flag station, road crossing at.....	33	20	53.1	81	12	42.6	5,544
Road crossing.....	33	21	02.7	81	13	46.8	5,534
Rose Mary spur, switch stand at.....	33	21	10.3	81	14	38.6	4,461
Bamberg, Prim. Trav. Sta. No. 89, 1917 Mac. (previously described).....	33	17	44.7	81	02	17.7	.....
Center of track at city-limit post.....	33	17	37.5	81	01	22.8	4,718
Road crossing.....	33	17	28.6	81	00	49.8	2,940

From Denmark north along Seaboard Air Line Ry. (By U. S. Coast &amp; Geodetic Survey and George T. Hawkins in 1918.)

Denmark triangulation station (U. S. C. & G. S.), on the Seaboard Air Line Ry. right of way, on the east bank of the cut, 750 meters south of milepost 229, 400 meters south of the Atlantic Coast Line R. R. crossing at Denmark railroad station, 5.3 meters east of east rail of main track and about 2 meters above the track, U. S. Coast and Geodetic Survey bench mark K <sub>1</sub> distant 13.23 meters; tablet set in top of concrete post.....	33	18	57.94	81	08	41.07	.....
Denmark, Prim. Trav. Sta. No. 88, Mac.....	33	19	33.60	81	08	35.75	.....
Road crossing.....	33	19	57.3	81	08	33.0	2,398
Road crossing.....	33	20	28.5	81	08	28.9	3,160
Plaza, on the Seaboard Air Line Ry. right of way, 75 meters south of milepost 231, about 1.5 miles north of Denmark railroad station, 2.36 meters west of west rail of main track, U. S. Coast and Geodetic Survey bench mark N <sub>1</sub> distant 10.12 meters; tablet set in top of concrete post.....	33	21	02.23	81	08	24.84	3,427
Road crossing.....	33	21	15.8	81	08	22.8	1,382
Road crossing, U. S. Coast and Geodetic Survey bench mark is 15 feet east.....	33	22	44.1	81	08	11.0	8,980
South end of iron bridge.....	33	23	37.3	81	08	03.9	5,410
Outside, on the Seaboard Air Line Ry. right of way, 600 meters south of milepost 235, about 1.33 miles north of Otsiderailroad station, 2.71 meters east of east rail of main track, U. S. Coast and Geodetic Survey bench mark P <sub>1</sub> distant 10.53 meters; tablet set in top of concrete post.....	33	24	12.84	81	07	59.07	3,611
South Norway, crossing.....	33	25	20.4	81	07	50.1	6,868
South Norway, crossing.....	33	25	37.7	81	07	47.8	1,760
Cresco, on the Seaboard Air Line Ry. right of way, 710 meters north of milepost 236, about 1 mile south of Norway railroad station, 120 meters south from a road crossing, 2.85 meters west of west rail of main track, U. S. Coast and Geodetic Survey bench mark Q <sub>1</sub> distant 147.96 meters; tablet set in top of concrete post.....	33	25	47.27	81	07	46.65	969
Road crossing, 30 feet southeast to U. S. Coast and Geodetic Survey bench mark.....	33	25	52.4	81	07	45.7	530
Road crossing.....	33	26	56.5	81	07	37.2	6,520
Norway station, at north end of, road crossing.....	33	27	05.5	81	07	35.9	911
Road crossing.....	33	28	06.4	81	07	27.8	6,200
Road crossing at two old houses east of railroad.....	33	28	24.8	81	07	25.3	1,870

## BAMBERG QUADRANGLE—Continued.

From Denmark north along Seaboard Air Line Ry.—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Norway station, on the Seaboard Air Line Ry. right of way, 375 meters north of milepost 240, about 2 miles north of Norway railroad station, 60 meters north of a whistling post, 150 meters south from a private-road crossing, 6.54 meters east of east rail of main track, U. S. Coast and Geodetic Survey bench mark T <sub>1</sub> distant 69.37 meters; tablet set in top of concrete post. ....	° ' " 33 29 03.80	° ' " 81 07 19.82	Feet. 3,963
Norway A, on the Seaboard Air Line Ry. right of way, at first curve north of Norway railroad station, about 1 mile north of milepost 240, at intersection of prolongation of southward tangent to curve of east rail and northward tangent to curve of west rail of main track, 2.02 meters west of west rail and about 1 meter below the track, U. S. Coast and Geodetic Survey bench mark U <sub>1</sub> distant 68.79 meters, is 4.99 meters west of west rail of main track; tablet set in top of concrete post. ....	° ' " 33 29 37.24	° ' " 81 07 15.55	3,396
Second-class road crossing. ....	° ' " 33 30 00.7	° ' " 81 07 07.5	2,472

## Along highways near northwest corner of quadrangle.

Springfield, 3 miles east of, at northeast corner of crossroads, 3 feet east of telephone pole; iron post stamped "Prim. Trav. Sta. No. 53 H, 1918".....	° ' " 33 29 45.9	° ' " 81 13 55.3	.....
Road forks to south at mail box 42.....	° ' " 33 29 36.7	° ' " 81 14 18.7	2,191
Creek south.....	° ' " 33 29 32.7	° ' " 81 14 43.5	2,142

## Along highways near east border of quadrangle. (By Oscar Jones in 1919.)

Bamberg, Prim. Trav. Sta. No. 89 (previously described).....	° ' " 33 17 44.70	° ' " 81 02 17.70	.....
Road fork.....	° ' " 33 18 12.8	° ' " 81 02 06.8	2,994
Road fork.....	° ' " 33 19 05.0	° ' " 81 01 59.0	5,308
Crossroads.....	° ' " 33 19 28.7	° ' " 81 01 51.7	2,477
Bamberg, 3 miles north of, 600 feet south of bridge over Edisto River; iron post stamped "Prim. Trav. Sta. Elev. 142".....	° ' " 33 20 07.6	° ' " 81 01 10.9	5,246
Road fork at temporary bench mark marked "162".....	° ' " 33 21 14.1	° ' " 81 00 38.9	7,246
Road fork.....	° ' " 33 21 50.9	° ' " 81 00 08.7	4,516
Cope, 200 feet northeast of station, crossroads.....	° ' " 33 22 40.4	° ' " 81 00 25.5	.....
Center of culvert.....	° ' " 33 23 15.2	° ' " 81 00 43.5	3,833
T road east.....	° ' " 33 24 02.4	° ' " 81 00 55.2	4,863
Cope, 2 miles north of, at road forks, elevation marked "264".....	° ' " 33 24 28.5	° ' " 81 00 58.7	2,660
Crossroads.....	° ' " 33 25 42.9	° ' " 81 01 04.1	7,530
Road fork.....	° ' " 33 26 16.2	° ' " 81 01 00.3	3,385
Crossroads.....	° ' " 33 26 53.6	° ' " 81 01 13.3	3,934
Cope, 5.50 miles north of, at road fork; iron post, bench mark elevation 274.....	° ' " 33 27 13.8	° ' " 81 01 15.6	2,055
Creek crossing, at road fork.....	° ' " 33 27 56.0	° ' " 81 00 37.8	5,334
Road fork.....	° ' " 33 28 30.2	° ' " 81 00 15.3	3,945

Magnetic declination for east border of quadrangle, 0° 12' W.; for north border of quadrangle, 0° 15' W.

## BATESBURG QUADRANGLE.

Along highways near south border of quadrangle. (By B. H. Yoakum in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
Monetta, 7.5 miles southeast of, at junction of Two Notch road and Ninety Six road, at residence of T. R. Jones, 15 feet north of crossroads; iron post stamped "Prim. Trav. Sta. No. 12, 1918 Y".....	° ' " 33 45 48.4	° ' " 81 32 43.6	Feet. ....
G. L. Sander's house, crossroads 250 feet east of.....	° ' " 33 45 19.3	° ' " 81 39 04.1	.....
Cotton gin, bridge over mill race at.....	° ' " 33 45 30.1	° ' " 81 39 30.4	2,474
Fork of road, 270 feet south of forks at Rev. W. T. Kennors's mail box, 500 feet east of J. M. Day's house, at mail box 87.....	° ' " 33 45 31.1	° ' " 81 40 12.2	3,530
Henry Johnson's house, forks in front of.....	° ' " 33 45 28.0	° ' " 81 40 43.8	2,685
New bridge over South Edisto River, north end of.....	° ' " 33 45 14.9	° ' " 81 41 06.6	2,333

## BATESBURG QUADRANGLE—Continued.

From Leesville north along east border of quadrangle. (By E. L. McNair in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Leesville, Prim. Trav. Sta. No. 49 H (previously described).....	33	55	03.07	81	30	46.28	.....
T road corner.....	33	55	17.5	81	30	04.8	2, 136
Road forks, 60 feet southeast of telephone pole.....	33	55	56.6	81	31	31.6	4, 553
Forks of roads to Leesville and to Batesburg.....	33	56	21.3	81	32	05.0	3, 761
Center of bridge crossing Lick Creek.....	33	57	03.8	81	32	00.7	4, 319
Private road east at two mail boxes.....	33	58	24.5	81	31	40.7	8, 330
T road east.....	33	58	46.4	81	31	36.1	2, 245
T road northwest.....	33	58	58.0	81	31	30.2	1, 273
Forks of road.....	33	59	50.6	81	30	59.7	5, 905
Leesville, 6.7 miles north of, on road to Prosperity, 600 feet north of milepost 6 miles from Batesburg, 70 feet north of forks of road, 3 feet west of signboard between forking roads; iron post stamped "Prim. Trav. Sta. No. 1, 1919 M" Azimuth to copper nail in root of oak tree 960 feet distant is 177° 32' 00".....	34	00	16.1	81	30	53.5	2, 629
Forks of road, point is 25 feet north of telephone pole.....	33	54	38.9	81	30	41.6	.....
Crossroads.....	33	54	02.3	81	30	40.4	3, 693
Road forks.....	33	53	28.5	81	30	45.3	3, 449
Forks of road 0.35 mile north of Kneecce.....	33	52	27.5	81	30	49.7	6, 174
T road west to church.....	33	51	43.8	81	30	18.9	5, 126
Center of road at milepost 4.....	33	51	38.3	81	30	15.0	645
Crossroads.....	33	51	30.3	81	30	09.3	941
Crossroads.....	33	47	57.7	81	30	10.6	.....
Forks of road.....	33	47	26.0	81	30	28.9	3, 668
Crossroads.....	33	47	19.0	81	30	44.4	1, 487
Road forks.....	33	47	03.8	81	31	00.7	2, 066
Crossroads.....	33	46	52.7	81	31	28.4	2, 589
Road crossing.....	33	46	18.3	81	32	09.2	4, 901
Monetta, 7.5 miles southeast of, "Prim. Trav. Sta. No. 12 Y, 1918" (previously described).....	33	45	48.4	81	32	43.6	4, 193

## Along north border of quadrangle.

Crossroads.....	33	59	39.3	81	37	41.0	.....
Crossroads, 430 feet west of milestone 44.....	33	59	34.8	81	37	57.9	1, 492
Crossroads.....	33	58	57.3	81	38	51.8	5, 917
Crossroads.....	33	58	45.7	81	39	07.4	1, 762
Batesburg, 10 miles northwest of, on Batesburg-Chappels road, about 1,250 feet southeast of C. D. Dulurers house, 50 feet southeast of forks of road; iron post stamped "Prim. Trav. Sta. No. 3, 1919 Mac" Azimuth to east edge of chimney on house 0.4 mile distant is 156° 40' 50".....	33	59	12.9	81	40	28.1	7, 330
Crossroads.....	33	59	38.3	81	40	47.4	3, 043
Crossroads.....	33	59	55.9	81	41	11.8	2, 715
T road south.....	33	59	49.4	81	42	33.8	6, 937
Crossroads.....	33	59	59.6	81	43	16.0	3, 694

## South near west border of quadrangle.

Road crossing.....	33	56	24.4	81	44	49.4	.....
Road crossing.....	33	55	44.3	81	43	49.9	6, 453
Road crossing at sawmill.....	33	55	12.7	81	43	46.5	3, 195
Creek crossing.....	33	54	43.9	81	43	55.8	3, 017
Public-road crossing.....	33	54	21.6	81	44	03.6	2, 340
Road crossing at Spigener flag station.....	33	54	11.6	81	44	00.7	1, 039
Small creek crossing.....	33	53	21.7	81	43	50.9	5, 109
Road crossing.....	33	52	53.1	81	43	48.6	2, 896
Road crossing.....	33	52	19.1	81	43	50.2	3, 440
Public-road crossing.....	33	51	50.8	81	43	42.7	2, 925
Ward station, 250 feet east of, 6 feet north of main line between tracks; iron post stamped "Prim. Trav. Sta. No. 50, 1918 H".....	33	51	26.9	81	43	49.9	2, 485
T road south.....	33	51	21.6	81	44	23.3	2, 863

## From southeast corner northwest to post 12. (By E. L. McNair in 1919.)

Second-class crossroad.....	33	45	27.6	81	32	05.8	.....
"Prim. Trav. Sta. No. 12, 1918 Yoakum".....	33	45	43.37	81	32	43.62	3, 820

Magnetic declination in northeast quarter of quadrangle, 00° 04' W.; along east border, 00° 14' E.; along north border, 00° 11' E.; along west border, 00° 07' W.



## BATESBURG QUADRANGLE—Continued.

East along Southern Ry. through center of quadrangle. (By George T. Hawkins in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road crossing.....	33	51	18.1	81	44	23.0	Feet.
Ward, 250 feet east of station, 6 feet north of main line, between tracks; iron post stamped "Prim. Trav. Sta. No. 50, 1918 H" ..	33	51	26.88	81	43	49.93	2, 923
Road crossing.....	33	51	16.7	81	42	51.0	5, 073
Road crossing, 20 feet northeast to sign.....	33	51	07.0	81	41	59.7	4, 432
Road crossing.....	33	50	51.2	81	40	35.4	7, 285
Road crossing, 100 feet west of Ridge Spring station.....	33	50	41.6	81	39	43.3	4, 502
County-road crossing.....	33	50	40.3	81	38	52.4	4, 294
Road crossing.....	33	50	39.7	81	38	12.8	3, 340
Station-215, 1,025 feet southwest of bench mark 51, on south rail.	33	50	51.5	81	36	45.3	7, 474
Monetta, on west side of track, 100 feet southwest of station; iron post stamped "Prim. Trav. Sta. No. 51, 1918 H" ..	33	50	59.20	81	36	35.70	1, 125
Road crossing.....	33	51	16.7	81	36	13.1	2, 605
Road crossing.....	33	51	33.4	81	35	52.3	2, 427
Second-class road crossing.....	33	52	15.4	81	35	30.0	4, 648
Road crossing, 300 feet north of Hibernia.....	33	53	09.2	81	35	02.3	5, 919
Second-class road crossing.....	33	53	41.3	81	34	30.3	4, 216
Second-class road crossing.....	33	53	50.0	81	34	14.8	1, 582
Batesburg station, 900 feet west of, east side of crossing, joint of south rail.....	33	54	16.8	81	33	04.4	6, 520
Batesburg siding, east end of.....	33	54	30.8	81	32	27.0	3, 453
Summerland, joint of crossing.....	33	54	40.1	81	31	55.0	2, 855
Leesville, 100 feet southwest of station, 6 feet south of south rail, west of road crossing; iron post stamped "Prim. Trav. Sta. No. 49, 1918 H" ..	33	55	03.07	81	30	46.28	6, 243
Goodrich signpost.....	33	55	21.9	81	30	00.7	4, 288

No declination observed.

## BISHOPVILLE QUADRANGLE.

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

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road forks.....	34	00	22.6	80	24	43.3	Feet.
Road forks at store.....	34	00	56.8	80	25	15.6	4, 398
Dalzell, 50 feet north of station, center of track of Northwestern R. R. of South Carolina and road crossing.....	34	00	53.1	80	25	50.3	2, 930
T road north.....	34	01	00.3	80	26	37.4	3, 970
Road forks at house.....	34	01	24.2	80	27	34.5	5, 381
Crossroads.....	34	01	53.8	80	27	45.5	3, 140
Creek crossing.....	34	01	23.8	80	28	23.1	4, 387
Road forks, 400 feet north of Catchall Church.....	34	00	56.8	80	29	16.0	5, 220
Road forks, center of road opposite house.....	34	00	25.8	80	29	24.1	3, 206

Magnetic declination for south border of quadrangle, 00° 47' W.

## BONNEAU QUADRANGLE.

Northeast along Atlantic Coast Line R. R. through west part of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Public-road crossing.....	33	15	05.2	79	58	40.8	Feet.
Public-road crossing, about 1,200 feet south of Macbeth station..	33	16	04.0	79	58	19.5	6, 219
Milepost Chn. 37.....	33	17	17.6	79	57	52.9	7, 770
Bonneau station, across track from and nearly opposite south end of, 75 feet west of center of road bed, at edge of brush; iron post stamped "Prim. Trav. Sta. No. 19, 1917 Mac." ..							
Azimuth of railroad tangent to top of hill north, 196° 52'; from post to semaphore post on east side of track, about 1,800 feet south, 14° 25'.....	33	18	28.5	79	57	28.3	7, 486

## BONNEAU QUADRANGLE—Continued.

Northeast along Atlantic Coast Line R. R. through west part of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Iron-girder bridge, center of roadbed.....	33	19	15.5	79	57	10.3	4,991
Farm-road crossing.....	33	19	49.5	79	56	58.0	3,590
Second-class road crossing.....	33	20	46.4	79	56	37.5	6,000
Second-class road crossing.....	33	21	24.6	79	56	23.6	4,045
Center of iron-girder bridge.....	33	22	04.4	79	56	09.3	4,200
Road crossing.....	33	23	07.9	79	55	46.3	6,710
Road crossing.....	33	23	57.9	79	55	28.2	5,280
St. Stephens station, 75 feet south of, 80 feet west of center of railroad bed, 40 feet south of street, on open, level ground; iron post stamped "Prim. Trav. Sta. No. 20, 1917 Mac." Azimuth of long railroad tangent northward, 196° 53'; to semaphore post about 1,100 feet distant, on east side of track, 11° 31' 30".....	33	24	14.6	79	55	23.2	1,740
Public-road crossing, about 0.3 mile north of St. Stephens station.....	33	24	31.4	79	55	16.0	1,797
Switch stand, north end of tower, single track.....	33	25	25.0	79	54	56.6	5,670
South end of steel-girder bridge.....	33	26	12.7	79	54	39.4	5,030
North end of steel-girder bridge.....	33	26	36.1	79	54	30.9	2,470
Center of swing span, Santee River bridge, 130 feet south of center of river.....	33	27	20.5	79	54	14.8	4,690
Santee Bluff, beginning of double track; switch stand.....	33	28	06.5	79	53	58.1	4,680
Gourdin station, 1,100 feet south of, public-road crossing.....	33	28	58.4	79	53	39.2	5,490

## Southeast along railroad.

Second-class road crossing.....	33	29	43.8	79	45	33.1	7,170
Blakely station, road crossing.....	33	29	40.8	79	45	20.7	1,090

## West along highways near south border of quadrangle. (By E. L. McNair in 1917.)

Swamp crossing at lowest ground, now dry.....	33	15	24.3	79	51	59.6	.....
Forks of road.....	33	15	48.4	79	52	40.4	4,229
Crossroads.....	33	16	07.2	79	53	39.6	5,371
Bonneau, about 5 miles southeast of, 130 feet west of Providence Church, 10 feet south of forks of road; iron post stamped "Prim Trav. Sta. No. 72, 1917 Mac.".....	33	16	13.2	79	53	52.3	1,237
Road forks.....	33	16	08.2	79	54	30.3	3,264
Road forks.....	33	15	23.4	79	56	05.3	9,361

Magnetic declination for south border of quadrangle, 1.1° W.

## Unchecked spur line south along highways. (By Oscar Jones in 1918.)

Santee River, double willow tree on north bank of, 20 feet west of boat landing at outlet of small slough; tree blazed on 3 sides, has nail in each blaze and is marked "U. S.".....	33	29	58.6	79	58	01.0	.....
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From Lonestar east along Santee River road across west-central part of quadrangle to St. Stephens.  
(By Oscar Jones in 1919.)

Center of tavern bridge.....	33	26	17.9	79	59	45.4	.....
Cemetery, road fork to.....	33	26	07.4	79	58	26.1	6,811
Peru Plantation, settled 1700 A. D., road fork at.....	33	25	58.1	79	58	05.7	1,959
Crossroads.....	33	25	46.6	79	57	36.0	2,776
Center of bridge.....	33	25	29.4	79	56	56.4	3,088
Gates across road.....	33	25	15.9	79	56	23.7	3,776
Center of creek crossing.....	33	24	57.6	79	55	52.2	3,257
St. Stephens, Prim. Trav. Sta. No. 20 Mac. 1917 (previously de- scribed).....	33	24	14.60	79	55	23.20	4,988

**BONNEAU QUADRANGLE—Continued.**

From Pineville southeast to Bonneau in west central part of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road fork.....	33 24 04.9	79 59 36.3	.....
Russellville, road fork at Murrell's Ferry and Bonneau-Pineville road.....	33 23 47.8	79 58 18.8	6,799
Center of bridge.....	33 23 06.5	79 57 54.6	4,645
Center of bridge at angle of road.....	33 22 02.7	79 57 32.3	0,724
Road fork.....	33 21 13.0	79 57 25.3	5,050
Crossroads.....	33 20 56.2	79 57 22.9	1,710
Center of bridge.....	33 20 10.2	79 57 16.1	4,690
Road fork at angle in road.....	33 19 51.4	79 57 13.6	1,900
Center of road, opposite house on west side of road.....	33 19 18.5	79 57 27.6	3,535
Center of bridge.....	33 18 50.7	79 57 30.2	2,819
Bonneau, Prim. Trav. Sta. No. 19, Mac. 1917 (previously described).....	33 18 28.51	79 57 28.26	2,243

From station 6442 east to Bonneau in southwest corner of quadrangle.

Crossroads at gate across road.....	33 18 42.1	79 58 59.9	.....
Bonneau, Prim. Trav. Sta. No. 19, 1917 Mac. (previously described).....	33 18 28.51	79 57 28.26	7,901

Magnetic declination for west central part of quadrangle 34' W.

**BOWMAN QUADRANGLE.**

Along highways in southeast corner of quadrangle. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
St. George, 6 miles north of, 0.6 mile north of Indian Field Church, 6 miles northwest of Harleyville, on Charleston-Orangeburg road, 100 feet northwest of crossroad, 15 feet north of center of road, 2.5 feet from gatepost at entrance to barnyard; iron post stamped "Prim. Trav. Sta. No. 7, 1918 Mac." Azimuth to south edge of chimney on west end of house 800 feet southeast, 308° 03' 30"; to north edge of chimney on east end of house about 0.4 mile west, 120° 20' 08".....	33 15 16.6	80 31 40.8	.....
Crossroads.....	33 15 04.8	80 31 16.4	2,388

From St. George northwest along highway to Bowman. (By E. L. McNair in 1918.)

St. George, 6 miles north of; iron post stamped Prim. Trav. Sta. No. 7, 1918, Mac (described above).....	33 15 16.6	80 31 40.8	.....
Forks of road.....	33 15 43.1	80 32 45.9	0,142
T road southwest.....	33 16 01.4	80 33 32.0	4,329
T road southwest.....	33 16 11.4	80 33 57.8	2,410
Crossing of lumber company's narrow-gage railroad.....	33 16 16.4	80 34 11.3	1,255
T road southeast.....	33 16 33.0	80 34 56.1	4,155
Forks of road.....	33 16 52.5	80 35 48.5	4,859
Second-class road southwest.....	33 17 16.9	80 36 54.2	6,100
T road about N. 25° E.....	33 17 25.6	80 37 17.4	2,156
Road forks, road southeast.....	33 19 04.4	80 39 15.7	14,161
Forks of road.....	33 19 52.6	80 39 54.8	5,901
Angle of 9½° in road, centerline both ways.....	33 20 28.0	80 40 24.6	4,377
Bowman, at terminus of Branchville & Bowman R. R., 35 feet west of center of Main Street, just inside sidewalk and nearly on building line of street, 108 feet S. 52° E. from southeast corner of T. H. Knight & Sons' store, 120 feet N. 47° W. from northwest corner of Farris & Wise's store; iron post stamped "Prim. Trav. Sta. No. 8, 1918 Mac." Azimuth to northeast corner of T. H. Knight & Sons' store, 192° 42'; to west edge of chimney on Jim Cridolle's house, 700 feet distant, 200° 56' 00".....	33 20 57.25	80 41 00.36	4,235

## BOWMAN QUADRANGLE—Continued.

From Branchville northeast along public road to Bowman.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fect.
Cattle Creek, center of bridge over.....	33 17 49.4	80 44 09.8	.....
Forks of road.....	33 18 05.2	80 43 49.1	2,370
Road crossing on Branchville & Bowman R. R.....	33 18 44.9	80 43 45.5	4,021
Forks of road.....	33 19 10.8	80 43 34.5	2,779
Road crossing on Branchville & Bowman R. R.....	33 19 19.0	80 43 13.6	1,955
Forks of road.....	33 19 24.3	80 42 37.1	3,149
Second-class crossroads.....	33 19 43.2	80 42 02.3	3,512
T road S. 20° E.....	33 19 50.5	80 41 42.8	1,812
T road corners at church.....	33 20 42.7	80 41 03.7	6,231
Bowman "Prim.Trav.Sta.No.8" (previously described).....	33 20 57.25	80 41 00.36	1,497

Magnetic declination for south half of quadrangle, 0° 39' W.

From drainage station southeast through west central part of quadrangle to Bowman. (By Oscar Jones in 1919.)

Road fork at schoolhouse.....	33 24 49.2	80 44 55.6	.....
Road fork.....	33 23 52.3	80 44 03.5	7,250
Road fork.....	33 23 20.9	80 43 34.7	4,009
Road fork.....	33 22 48.5	80 43 05.0	4,129
Road fork.....	33 22 11.4	80 42 28.1	4,882
Crossroads.....	33 22 00.9	80 42 12.5	1,706
Center of bridge.....	33 21 39.4	80 41 49.2	2,940
Road fork.....	33 21 18.8	80 41 25.4	2,898
Bowman, Prim.Trav.Sta.No.8 McNair, 1918.....	33 20 57.25	80 41 00.36	3,046

Magnetic declination for west central part of quadrangle, 15' W.

From Holly Hill west along State road to Bowman. (By Oscar Jones in 1919.)

Road fork.....	33 22 47.7	80 30 10.9	.....
T road north.....	33 22 56.4	80 30 50.4	3,460
Road fork southwest.....	33 22 56.3	80 31 30.2	3,379
Road fork.....	33 23 18.6	80 32 08.1	3,924
T road southwest, near Providence Church.....	33 23 33.5	80 32 31.5	2,490
Road fork near gin.....	33 23 10.1	80 32 52.2	2,941
Road fork.....	33 22 30.8	80 33 01.7	4,059
Four Hole Swamp, south end of main bridge over.....	33 21 48.8	80 33 39.5	5,313
Center of bridge.....	33 21 24.9	80 34 16.8	3,980
Road fork.....	33 21 12.4	80 34 54.1	3,401
T road west.....	33 21 02.9	80 35 19.4	2,353
Tram-road crossing.....	33 20 46.6	80 35 33.0	2,009
T road north.....	33 20 04.5	80 35 56.1	4,680
Road fork.....	33 19 52.2	80 36 18.8	2,288
Ebenezer Church, center of road, opposite T road north.....	33 19 58.9	80 36 48.2	2,583
Center of bridge.....	33 20 10.8	80 37 20.5	3,000
Angle in road, center line both ways.....	33 20 17.4	80 38 17.5	4,880
Center of bridge.....	33 20 25.4	80 38 40.9	2,145
Center of bridge.....	33 20 06.5	80 39 23.7	4,099
Center of road.....	33 19 52.6	80 39 54.8	2,990

From station 3,796 south to post 7 McNair, 1918.

Four Hole Swamp, west end of bridge, the west one of two bridges.....	33 18 03.2	80 30 00.5	.....
Road fork.....	33 17 59.6	80 30 13.6	1,170
Center of bridge.....	33 17 18.2	80 30 44.8	4,942
Road fork.....	33 16 49.0	80 31 03.2	3,338
Center of bridge.....	33 16 05.2	80 31 08.1	4,448
Center of road, opposite gate and house.....	33 15 39.3	80 31 24.2	2,947
Prim.Trav.Sta.No.7 McNair, 1918 (previously described).....	33 15 16.61	80 31 40.80	2,688

Mean magnetic declination, 1° 02' W.

Southeast along public road across northeast corner of quadrangle.

Road fork.....	33 29 41.7	80 31 17.4	.....
Parler, in front of R. Q. Moore's store, T road south.....	33 29 36.0	80 30 37.9	3,400
Cross roads.....	33 29 34.3	80 30 02.3	3,020

## BOWMAN QUADRANGLE—Continued.

North along northeast border of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Cross roads.....	33	25	14.0	80	30	17.5	.....
Smoke stack of sawmill and gin, center of road opposite.....	33	25	42.7	80	30	31.4	3,141
T road west.....	33	26	16.7	80	30	38.3	3,489
Well at white church, center of road opposite.....	33	26	52.1	80	30	53.0	3,796
Center of bridge.....	33	27	00.0	80	31	05.9	1,358
Cross roads.....	33	27	36.8	80	31	20.9	3,944
Cross roads.....	33	27	57.0	80	31	30.4	2,196
Center of bridge.....	33	28	20.0	80	31	21.1	2,462
Road fork.....	33	28	46.9	80	31	00.8	3,226
T road northwest.....	33	29	11.5	80	30	26.4	3,855
Parler, T road south at (previously described).....	33	29	36.0	80	30	37.9	2,670

Mean magnetic declination, 1° 10' W.

Northwest along State road to Cameron. (By Oscar Jones in 1919.)

Providence church, near, T road southwest (previously described).....	33	23	33.5	80	32	31.5	.....
T road north at church.....	33	23	52.4	80	33	00.7	3,128
T road northeast.....	33	24	21.5	80	33	45.7	4,818
Road fork southwest, 500 feet southeast of store.....	33	24	38.5	80	34	12.0	2,820
Center of bridge.....	33	25	18.4	80	35	16.2	6,772
Church, center of road opposite.....	33	25	54.6	80	36	08.5	5,748
Road fork near church.....	33	26	28.4	80	36	59.2	5,490
Goodby Swamp, center of bridge.....	33	26	38.7	80	37	07.8	1,279
T road northeast at store.....	33	27	17.8	80	37	19.4	4,076
Road fork to Orangeburg.....	33	27	31.7	80	37	31.2	1,729
Road fork at J. R. Dantzler's mail box.....	33	28	05.2	80	38	00.1	4,180
Road fork to Ellore, 7 miles southeast of Cameron, on north side of State road, 2 feet west of telephone pole; iron post stamped "Prim. Trav. Sta. No. 73 J, 1919".....	33	28	35.65	80	38	26.65	3,811
Road fork.....	33	29	15.1	80	39	01.1	4,949
Road fork.....	33	29	42.4	80	39	24.5	3,400

From Ellore southwest along public road to post 73.

Road fork, 300 feet east of church.....	33	29	47.9	80	36	37.7	.....
Creek crossing.....	33	29	32.4	80	37	11.2	3,241
Road fork.....	33	29	18.2	80	37	30.5	2,180
Prim. Trav. Sta. No. 73 J (previously described).....	33	28	35.65	80	38	26.56	6,406

Northeast along public road across northwest corner of quadrangle.

Crossroads.....	33	27	32.8	80	44	49.7	.....
Creek crossing.....	33	27	48.4	80	44	38.4	1,845
Road fork.....	33	28	13.5	80	44	29.9	2,641
Center of culvert pipe.....	33	28	22.5	80	44	26.9	937
Center of bridge.....	33	28	43.3	80	44	08.0	2,643
Road fork.....	33	29	17.2	80	43	26.5	4,901
Tie station 7278=7304.....	33	29	18.0	80	43	25.3	130
T road north.....	33	29	19.4	80	42	49.4	3,042
Road fork.....	33	29	21.9	80	42	24.2	2,153
Road fork.....	33	29	23.3	80	41	15.9	5,783
South end of bridge over Four Hole Swamp.....	33	29	23.0	80	40	43.0	2,787

Northwest along public road in northwest corner of quadrangle.

Tie station 7304=7278 (previously described).....	33	29	18.0	80	43	25.3	.....
Road fork.....	33	29	07.1	80	44	16.2	4,446
Road fork.....	33	29	11.6	80	44	46.8	2,640

Magnetic declination for northeast part of quadrangle, 4' W.; for northwest part of quadrangle, 29' W.

## BULLS ISLAND 15' QUADRANGLE (SEWEE BAY 7½' QUADRANGLE).

Northeast along highways through northwest corner of quadrangle. (By Oscar Jones in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road fork at store.....	32	53	14.2	79	44	39.0	.....
Road fork.....	32	53	43.2	79	44	05.2	4,110
Road fork.....	32	54	12.0	79	43	43.2	3,464
Center of road, opposite milepost 13.....	32	54	40.9	79	43	22.0	3,438
Road fork.....	32	54	52.3	79	43	05.2	1,631
Crossing of tramway.....	32	55	10.5	79	42	34.6	3,190
Road fork, in triangle at; iron post stamped "Prim. Trav. Sta. No. 1 J".....	32	55	43.1	79	43	07.7	4,331
Center of bridge.....	32	56	06.6	79	42	50.7	2,787
Road fork at Freeman house.....	32	56	18.3	79	42	36.3	1,695
Road fork at camp ground.....	32	57	33.7	79	41	18.5	10,108
Road fork.....	32	58	17.5	79	40	28.7	6,129
Center of road, opposite schoolhouse.....	32	58	50.5	79	39	36.8	5,536
Road fork.....	32	59	24.0	79	38	38.6	6,005
Road fork.....	32	59	51.3	79	38	39.2	2,758

Magnetic declination along line through northwest corner of quadrangle, 1.2° W.

Along highway in northwest part of quadrangle. (By E. L. McNair in 1917.)

Primary Traverse Station No. 1 (previously described).....	32	55	43.1	79	43	07.7	.....
Freeman's place, T road corners.....	32	56	18.6	79	42	36.4	4,474
Road forks, at dim road north.....	32	56	40.1	79	42	47.2	2,365
Wards bridge over tidewater stream.....	32	56	42.4	79	43	32.3	3,848
At angle in road; granite post 10 inches square by 18 inches high, marked "XIII".....	32	56	37.2	79	44	50.3	6,668

Magnetic declination near northwest corner of quadrangle, 1.3° W.

## CALIBOGUE SOUND QUADRANGLE.

Along highways near north border of quadrangle. (By H. S. Senseney in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Bluffton, at northeast corner of old store building owned by Martin Oscar; iron post stamped "Prim. Trav. Sta. No. 6 S, 1918." Azimuth to southwest corner of house, about 500 feet north of post and on west side of road, 187° 13' 10".....	32	14	12.9	80	51	38.5	.....
Road forks.....	32	14	13.3	80	51	58.6	1,722
Bend in road, in front of blazed oak tree.....	32	14	28.7	80	53	24.3	7,524
Crossroads.....	32	14	06.9	80	54	02.5	3,951
Road south through gate, at mail box.....	32	13	52.9	80	54	27.1	2,542
O. G. Fuller's mail box, cross lanes at.....	32	13	52.2	80	55	26.0	5,062
East end of bridge.....	32	13	54.1	80	55	43.6	1,524
Road forks.....	32	14	04.0	80	56	51.4	5,910
T road north.....	32	14	15.6	80	57	51.4	5,284
Pritchardville post office, in front of, center of road.....	32	14	19.1	80	58	11.5	1,758
Pritchardville post office, 0.75 mile west of, 100 feet east of road forks, 30 feet west of fence corner; iron post stamped, "Prim. Trav. Sta. No. 7 S, 1918." Azimuth to nail in blaze on pine tree, 145 feet east of post and on south side of road, 290° 10' 15".....	32	14	31.4	80	59	00.1	4,360

Magnetic declination for north border of quadrangle, 0° 16' E.

## Camp Jackson Artillery Field.

Hagood, Hopkins, and Killian quadrangles.

## KERSHAW AND RICHLAND COUNTIES.

The following positions on North American datum were determined in 1918 by primary traverse run by George T. Hawkins, P. W. McMillen, and L. F. Biggs. The positions are based on a mean value of U. S. Coast and Geodetic Survey primary traverse stations Nob A, Richland A, Hyatts, Elmwood A, Elmwood B, Columbia, Columbia D, and Columbia C. The lines follow highways and trails and lanes cut through the brush.

From iron post No. 59 to iron post No. 59 around border of the range. (By George T. Hawkins in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Fet.
Columbia, 5 miles northeast of, at southeast corner of crossroads, 400 feet west of bridge, across the road and 80 feet from house; iron post stamped "Prim. Trav. Sta. No. 59, 1918 H. Elev. 177".	34	01	05.92	80	57	58.84	2,680
North side of road; copper nail in hub.	34	01	17.56	80	57	30.26	
North side of road, at forks, 50 feet west of G. G. Davis's mail box; copper nail in hub.	34	01	25.62	80	57	06.40	2,245
Granite milepost 6, center of.	34	01	42.30	80	56	45.48	2,377
Columbia, 5.5 miles northeast of, on southeast side of road, 5 feet east of nail in blaze on pine tree; iron post stamped "Prim. Trav. Sta. No. 60, 1918 H."	34	02	07.98	80	56	22.41	3,244
Copper nail in hub, south of road, 5 feet east and 4 feet south to post with 3 notches cut on side.	34	02	25.56	80	56	11.08	2,015
Nail in top of stump, 70 feet northwest of Beulah Church at forks.	34	02	31.79	80	56	01.83	1,000
Copper nail in hub, at southeast corner of crossroads, 3 feet north of bank.	34	02	56.89	80	55	44.31	2,936
Nail in hub, 30 feet northeast of forks, on south side of road.	34	03	10.91	80	55	17.98	2,631
Columbia, 9 miles northeast of, on south side of road, in front of house, 2 feet south of mail box No. 35; iron post stamped "Prim. Trav. Sta. No. 61, 1918 H. 307".	34	03	23.83	80	54	55.48	2,300
Copper nail in hub, south of road and opposite schoolhouse, 27 feet northwest to nail in blaze, 24 feet southwest to blaze.	34	03	49.15	80	54	33.82	3,142
Copper nail in hub, north of road, 700 feet northeast of house, 34 feet south to nail in pine tree, 4 feet west to nail in pine tree.	34	04	11.08	80	54	15.51	2,700
Copper nail in hub, north of road, at forks, 20 feet north to nail in oak tree.	34	04	23.96	80	53	58.33	1,942
Columbia, 11 miles northeast of, on south side of road, opposite new house, 20 feet west of forks, 10 feet east to nail in pine tree; iron post stamped "Prim. Trav. Sta. No. 62, 1918 H. Elev. 312 feet".	34	04	32.33	80	53	26.28	2,830
Nail in hub, south of road, 100 feet southwest of forks, 3 feet south to nail in pine tree.	34	04	48.37	80	52	54.96	3,094
Nail in hub, south of road, 400 feet east of creek, 45 feet southwest to nail in pine tree, 20 feet east to nail in pine tree.	34	04	56.32	80	52	24.40	2,694
Columbia, 13 miles northeast of, south of road, 900 feet southwest of milepost 13, 12 feet southwest to nail in pine tree; iron post stamped "Prim. Trav. Sta. No. 63, 1918 H. Elev. 370 feet".	34	05	12.66	80	51	47.24	3,536
Nail in hub, 20 feet northeast of crossroads, 36 feet northeast to nail in pine tree, 57 feet south to nail in pine tree.	34	05	27.84	80	51	17.92	2,903
Nail in hub, north side of road, 60 feet east to nail in pine tree, 50 feet southeast to nail in pine tree.	34	05	35.29	80	50	45.13	2,860
Nail in hub, south side of road, west of stream, 30 feet southwest to nail in pine tree, 30 feet east to nail in oak tree.	34	05	43.10	80	50	14.64	2,681
Nail in hub, north side of road, $\frac{1}{4}$ mile west of church, 8 feet northwest to nail in oak tree.	34	06	03.81	80	49	49.76	2,960
Spear Creek Church, near southwest corner of churchyard, 18 feet east to corner of fence; iron post stamped "Prim. Trav. Sta. No. 64, 1918 H. Elev. 349".	34	06	12.69	80	49	32.12	1,720
Granite milepost 16, center of.	34	06	17.44	80	48	59.62	2,793
Nail in hub, on north side of road, at forks, 7 feet northwest to nail in pine tree.	34	06	17.14	80	48	23.29	3,055
Granite milepost 17, center of.	34	06	09.74	80	48	03.66	1,814
Spear Creek Church, 2 miles southeast of, 1,000 feet east of milepost 17, at forks, on south side of road; iron post stamped "Prim. Trav. Sta. No. 65, 1918 H. 335".	34	06	06.74	80	47	52.38	995
Nail in hub, south of road, 13 feet east to nail in oak tree, 13 feet northwest to nail in oak tree.	34	05	57.38	80	47	19.02	2,960

From iron post No. 59 to iron post No. 59 around border of the range—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Nail in hub, west side of wire road at second-class crossroad, 37 feet to nail in oak tree east of road.	34 05 50.25	80 46 54.31	Feet. 2,200
Stone on Richland and Kershaw county line, east side of wire road.	34 06 09.00	80 46 45.86	2,025
Stone on county line, south of second-class road.	34 06 09.18	80 46 42.69	268
Stone on county line, south of second-class road.	34 06 08.87	80 46 39.24	291
Stone on county line, south of second-class road, 10 feet north-east to blazed tree.	34 06 02.40	80 46 16.36	2,032
Crossroads, southeast corner of, 20 feet north to nail in oak tree, 36 feet east to nail in oak tree; iron post stamped "Prim. Trav. Sta. No. 66, 1918 H, 357"	34 05 58.15	80 46 05.06	1,039
Copper nail in hub, south of road, 15 feet east to nail in oak tree, 26 feet north to nail in oak tree, 30 feet west to nail in oak tree.	34 05 58.76	80 45 30.09	2,942
Copper nail in stump, south of road, 37 feet northeast to U. S. mark on dead pine tree.	34 06 04.42	80 45 07.11	2,017
Copper nail in hub, at forks, 18 feet south to nail in pine tree, 22 feet west to nail in pine tree, 25 feet north to nail in pine tree.	34 06 18.68	80 44 43.49	2,454
On south side of road, 5 feet north of wire fence, 200 feet east of gate, 20 feet east of blaze on pine tree; iron post stamped "Prim. Trav. Sta. No. 67, 1918 H"	34 06 34.85	80 44 28.87	2,045
Copper nail in hub, south of road, 300 feet northeast of house, 2 feet north of gatepost to cowpen.	34 06 40.29	80 43 57.16	2,723
House, 200 feet west of, middle of road at gate.	34 06 46.79	80 43 46.50	1,109
Copper nail in hub, 30 feet northeast of Boston Jefferson's house, 6 feet east to nail in hickory tree.	34 06 47.86	80 43 30.13	1,377
Copper nail in hub, east of road, 12 feet north to nail in oak tree, 10 feet east to nail in oak tree.	34 06 24.98	80 43 16.29	2,588
In northwest corner of field, on east side of road, 13 feet north-east to blaze, 31 feet north to blaze 36 feet southwest to blaze; iron post stamped "Prim. Trav. Sta. No. 68, 1918 H"	34 05 50.82	80 43 05.90	3,562
Copper nail in hub, at northeast corner of crossroads, 2 feet north to gatepost marked "U. S.", 10 feet southwest to gatepost marked "U. S."	34 05 27.18	80 42 35.92	3,474
Copper nail in hub, 20 feet east of road, 2 feet east of nail in oak tree, 12 feet southeast of nail in oak tree.	34 05 07.96	80 42 03.65	3,338
English post office, 750 feet east of, on northwest side of road, at southeast corner of barn; iron post stamped "Prim. Trav. Sta. No. 69, 1918 H"	34 04 47.66	80 41 53.84	2,211
English crossroads, 1/4 mile southeast of.	34 04 32.59	80 41 43.86	1,738
Granite milepost marked "21," center of.	34 04 16.89	80 41 51.95	1,725
Copper nail in hub, east of road, 6 feet southwest to "U. S." on pine tree.	34 03 55.12	80 42 07.72	2,569
Copper nail in hub, east of road, 34 feet north to "U. S." on pine tree, 23 feet northeast to "U. S." on pine tree, 7 feet south to "U. S." on pine tree.	34 03 28.33	80 42 10.91	2,720
Piney Grove School, 2 miles north of, on west edge of road, 45 feet north to "U. S." on oak tree, 25 feet northeast to "U. S." on pine tree; iron post stamped "Prim. Trav. Sta. No. 70, 1918 H"	34 02 58.96	80 42 20.90	3,085
Granite milepost marked "19," center of.	34 02 39.56	80 42 19.79	1,963
Copper nail in hub, west of road, 20 feet north of blazed oak tree, 35 feet northeast of "U. S." on pine tree.	34 02 09.91	80 42 18.09	3,000
Granite milepost marked "18," center of.	34 01 45.44	80 42 14.23	2,496
Copper nail in hub, east of road, 50 feet north of forks, 36 feet northeast to "U. S." on oak tree, 70 feet northwest to "U. S." on pine tree.	34 01 20.91	80 42 10.56	2,500
Leasburg, 150 feet south of store, 30 feet southwest of T road west, 2 feet north of fence; iron post stamped "Prim. Trav. Sta. No. 71, 1918 H"	34 00 52.00	80 42 02.94	2,992
Copper nail in hub, south of road, on top of hill, 0.25 mile west of store.	34 00 51.10	80 42 45.94	3,705
Copper nail in log, north of road, 20 feet north of forks, 14 feet west of pump.	34 00 54.96	80 43 18.68	2,698
Copper nail in log, northwest of road, on bank, 5 feet west to nail in snag.	34 00 42.45	80 43 40.76	2,249
Columbia, 19 miles from, center of milestone.	34 00 30.82	80 43 55.26	1,694
Copper nail in hub, west of road, 30 feet west to blaze on pine stump.	34 00 19.50	80 44 08.14	1,575
Andrew Campbell's grist mill, 150 feet south of, 40 feet south-west of forks, 250 feet southwest of bridge over Colonels Creek; iron post stamped "Prim. Trav. Sta. No. 72, 1918 H"	33 59 56.80	80 44 32.73	3,090
Columbia, 18 miles from, center of milestone.	33 59 54.93	80 44 38.54	520
Copper nail in hub, north of road, near cabin, 177 feet west of "U. S." on hickory tree.	33 59 44.02	80 45 06.62	2,683
Cement post, on south side of road, marked "14-11"	33 59 36.94	80 45 42.00	2,982
Copper nail in hub, on south bank of cut, 12 feet southwest to "U. S." on oak tree, 78 feet northeast to "U. S." on oak tree.	33 59 47.86	80 46 28.60	4,076
Columbia, 16 miles from, 4 feet east of milepost, on south side of road, near drain crossing road; iron post stamped "Prim. Trav. Sta. No. 73, 1918 H"	33 59 50.91	80 46 36.43	728



From iron post No. 59 to iron post No. 59 around border of the range—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Copper nail in hub, south of road, 15 feet northeast of "U. S." on pine tree, 29 feet southwest of "U. S." on pine tree. ....	33 59 55.82	80 47 06.47	<i>Feet.</i> 2,579
Columbia, 15 miles from, on south side of road; center of granite post. ....	34 00 02.54	80 47 37.13	2,588
Copper nail in hub, on south edge of road, 21 feet southwest of "U. S." on pine tree, 27 feet southeast of "U. S." on pine tree. ....	33 59 59.38	80 48 03.50	2,326
Union School, 110 feet southeast of, on north side of road; iron post stamped "Prim. Trav. Sta. No. 74, 1918 H" . ....	33 59 46.40	80 48 51.97	4,287
Copper nail in hub, at southeast corner of crossroads, 900 feet west of Union School. ....	33 59 42.13	80 49 01.35	900
Columbia, 13 miles from, south of road; center of granite post. ....	33 59 22.26	80 49 29.87	3,134
Columbia, 12.5 miles east of, on south edge of road; iron post stamped "Prim. Trav. Sta. No. 75, 1918 H" . ....	33 59 16.35	80 50 02.10	2,780
Copper nail in hub, north of road, 5 feet southwest of "U. S." on pine tree. ....	33 59 31.44	80 50 29.84	2,790
Copper nail in hub, south of road, opposite T road north, 25 feet northwest to "U. S." on pine tree. ....	33 59 33.38	80 50 53.75	2,022
Copper nail in hub, south of road, 12 feet south to "U. S." on oak tree, 30 feet east to "U. S." on pine tree. ....	33 59 24.66	80 51 27.28	2,953
Browns Chapel School, 100 feet south of, on north side of road, 30 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 76, 1918 H" . ....	33 59 25.44	80 51 58.12	2,596
Columbia, 10 miles from, on south side of road, center of granite post. ....	33 59 19.15	80 52 30.63	2,809
Copper nail in hub, on south side of road, 61 feet southeast of "U. S." on gum tree, 62 feet west of "U. S." on oak tree. ....	33 59 10.38	80 53 01.65	2,757
Columbia 9-mile post, 300 feet east of, 60 feet south of new house, on north side of road; iron post stamped "Prim. Trav. Sta. No. 77, 1918 H" . ....	33 59 07.38	80 53 27.77	2,220
Copper nail in hub, north of road, 57 feet south to "U. S." on pine tree, 98 feet east to "U. S." on hickory tree. ....	33 59 00.01	80 54 00.81	2,878
Copper nail in hub, north of road, 28 feet southwest to "U. S." on fence post, 24 feet southeast to "U. S." on gatepost. ....	33 58 52.26	80 54 32.84	2,808
Copper nail in hub, north of road, at northwest corner of T road north, 35 feet southwest to "U. S." on pine tree, 15 feet southeast to "U. S." on oak tree. ....	33 53 47.84	80 55 04.84	2,731
Columbia, 8 miles east of, at northwest corner of crossroads, 800 feet west of milepost 8; iron post stamped "Prim. Trav. Sta. No. 78, 1918 H" . ....	33 58 41.56	80 55 46.74	3,585
Concrete post on north side of road, marked "5," center of. ....	33 58 32.12	80 56 10.33	2,205
Granite post on south side of road, at forks, marked "6," center of. ....	33 58 34.24	80 56 38.02	2,343
Railroad crossing, east of forks, near center of road, joint of east rail. ....	33 58 29.67	80 57 21.41	3,682
Church, center of road opposite. ....	33 58 44.80	80 57 39.53	2,161
Columbia, 5 miles east of, south side of Garners Ferry road, on top of hill near east end of deep cut, on bank; iron post stamped "Prim. Trav. Sta. No. 79, 1918 H" . ....	33 59 06.07	80 58 11.01	3,471
Gills Creek, east pier of bridge over, on Garners Ferry road. ....	33 59 21.84	80 58 26.89	2,032
John C. Lott's office, in front of, corner of east wing wall of culvert. ....	33 59 37.53	80 58 52.76	2,694
Intersection of roads, 35 feet southeast to Firestone sign, 30 feet southwest to crossing sign. ....	33 59 48.28	80 59 15.22	2,182
Intersection of highway and street-car track, center of road, 3 feet west of west rail, 43 feet northeast to "U. S." on telephone pole, 35 feet northwest to "U. S." on transmission line pole. ....	34 00 04.78	80 59 10.24	.....
Intersection of highway and street-car track, in road; joint of south rail, 30 feet east to crossing sign. ....	34 00 02.54	80 58 31.41	3,276
Copper nail in hub, on north edge of road, opposite T road south, 21 feet west of north end of culvert. ....	34 00 28.69	80 58 13.28	3,053

From station 1007 to English post office.

Copper nail in hub, south of road, 36 feet south to "U. S." on telephone pole, 15 feet northwest to nail in pine tree. ....	34 01 29.01	80 56 33.48	2,708
Columbia, 6.5 miles east of, at junction of wire road and Ancrum Ferry road; iron post stamped "Prim. Trav. Sta. No. 80, 1918 H" . ....	34 01 36.39	80 56 08.03	2,270
Copper nail in hub, on south side of road, 50 feet west of Red Cross building, 34 feet southwest of "U. S." on telephone pole. ....	34 01 24.10	80 55 39.08	2,735
Jackson, U. S. C. & G. S. triangulation station, on highest part of hill, about 0.25 mile south of base hospital at Camp Jackson, 8.63 meters northwest from middle of water tank, marked "Z 601," at southwest corner of base of tank; tablet in concrete; reference distance 9.83 meters. ....	34 01 13.44	80 55 16.27	2,205
U. S. C. & G. S. value. ....	34 01 13.44	80 55 16.27	.....
Copper nail in hub, south of road, 6 feet west of danger sign. ....	34 01 03.33	80 54 51.58	2,313

## From station 1007 to English post office—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Copper nail in cedar stump, south of road, 37 feet southeast to blazed oak tree, 24 feet northeast to blazed oak tree.....	34	01	06.97	80	54	36.52	1,323
Copper nail in pine stump, south of road.....	34	01	11.01	80	54	25.39	1,018
Copper nail in hub, south of road, at forks, 30 feet southeast to "U. S." on pine tree, 37 feet north to "U. S." on haw tree.....	34	01	21.54	80	53	44.61	3,594
Base Hospital, 2 miles east of, on north side of road, 20 feet southwest to "U. S." on oak tree, 20 feet east to "U. S." on pine tree; iron post stamped "Prim. Trav. Sta. No. 81, 1918 H".....	34	01	26.86	80	53	33.95	1,044
Copper nail in hub south of road, 4 feet southwest to "U. S." on pine tree bearing range sign marked "O 4 C".....	34	01	28.98	80	53	03.04	2,610
Copper nail in hub, south of road, 7 feet southeast to "U. S." on pine tree, 14 feet north to "U. S." on pine tree.....	34	01	28.44	80	52	32.16	2,600
Copper nail in stump, south of road, 20 feet north of "U. S." marked on fence post at northeast corner of J. B. Davis's yard.....	34	01	37.45	80	52	03.45	2,583
Copper nail in hub, south of road, 30 feet south of "U. S." marked on oak tree, 73 feet southwest of "U. S." on pine tree.....	34	01	44.85	80	51	33.50	2,229
Center pole of roof to Cox's tower.....	34	01	47.57	80	51	47.65	.....
Copper nail in hub, south of road, 27 feet north to "U. S." on pine tree, 23 feet northwest to "U. S." on pine tree.....	34	01	51.25	80	51	05.40	.....
Camp Jackson Base Hospital, 4.5 miles east of, on north side of road, on top of low hill; iron post stamped "Prim. Trav. Sta. No. 82, 1918 H".....	34	01	56.00	80	50	42.45	1,990
Copper nail in hub, at northeast corner of crossroads.....	34	01	56.83	80	50	29.25	1,114
Copper nail in hub, south of road, 20 feet west of crossroads, 15 feet northwest of concrete milepost on south side of road, 45 feet southwest of concrete milepost north of road.....	34	02	00.97	80	49	57.33	2,717
Copper nail in hub, on north edge of road.....	34	02	06.77	80	49	30.98	2,293
Copper nail in hub, 49 feet southwest of "U. S." on house, 45 feet southeast of "U. S." on house.....	34	02	04.85	80	49	04.47	2,241
Copper nail in hub, on north side of road, 7 feet southwest of nail in oak tree, 49 feet northeast of nail in oak tree.....	34	02	10.36	80	48	50.56	1,296
Old store, 75 feet east of, on north side of road, 20 feet east of forks; iron post stamped "Prim. Trav. Sta. No. 83, 1918 H".....	34	02	12.51	80	48	27.49	1,954
Copper nail in hub, south of road, 43 feet south of "U. S." on gum tree, 37 feet west of "U. S." on oak tree.....	34	02	06.62	80	48	05.12	1,975
Copper nail in stump, south of road, 5 feet east of "U. S." on gum tree.....	34	02	13.82	80	47	29.37	3,095
Copper nail in hub, on south side of road, 14 feet west of "U. S." on oak tree, 35 feet east of "U. S." on oak tree.....	34	02	16.81	80	47	11.18	1,559
Copper nail in hub, on north side of road, 25 feet north of two blazed persimmon trees.....	34	02	22.77	80	46	51.72	1,744
Columbia, 16 miles from, 800 feet east of milepost, on south edge of road; iron post stamped "Prim. Trav. Sta. No. 84, 1918 H".....	34	02	24.52	80	46	05.82	3,867
Copper nail in hub, on south edge of road.....	34	02	24.11	80	45	44.28	1,813
Copper nail in hub, on south edge of road, 5 feet north of end of rail fence.....	34	02	30.29	80	45	24.49	1,778
Copper nail in hub, on north edge of road, 22 feet north of milepost 17.....	34	02	33.06	80	45	15.46	810
Copper nail in hub, on north edge of road, 22 feet west of "U. S." on oak tree, 20 feet northeast of "U. S." on oak tree.....	34	02	48.98	80	44	44.06	3,095
Columbia, 18 miles from, 900 feet east of milepost, on south side of road; iron post stamped "Prim. Trav. Sta. No. 85, 1918 H".....	34	03	09.38	80	44	17.12	3,063
Copper nail in hub, on north edge of road, 25 feet northwest to "U. S." on oak tree.....	34	03	30.15	80	43	47.32	3,271
Copper nail in hub, on south edge of road.....	34	03	47.96	80	43	25.02	2,600
Copper nail in hub, at northeast corner of crossroads, 30 feet northwest of "U. S." on oak tree, 25 feet northeast of "U. S." on gum tree.....	34	03	56.15	80	43	16.41	1,100
Granite milepost marked "20".....	34	04	11.96	80	42	46.16	3,005
Copper nail in hub, on south edge of road, 25 feet southwest of "U. S." on gum tree, 6 feet northwest of "U. S." on oak tree.....	34	04	25.62	80	42	36.57	2,152

## From bench mark 80 to county-line stone on wire road.

Copper nail in hub, south of road, 10 feet east of forks, 25 feet southeast of "U. S." on pine tree.....	34	01	48.94	80	55	35.99	2,977
Copper nail in hub, at northeast corner of T road north, 2 feet south of "U. S." on corner fence post.....	34	02	09.30	80	55	17.28	2,590
Copper nail in hub, on south edge of road, 3 feet north of "U. S." on telephone pole.....	34	02	14.58	80	54	49.37	2,408
Copper nail in hub, south of road, 12 feet north of "U. S." on oak tree, 20 feet west of "U. S." on gum tree.....	34	02	26.64	80	54	27.37	2,218
Copper nail in hub, south of road, 35 feet southeast of "U. S." on oak tree, 25 feet west of "U. S." on pine tree.....	34	02	47.98	80	53	58.43	3,253
Copper nail in hub, north of road, 30 feet east of forks, 25 feet northwest of "U. S." on gum tree.....	34	03	00.06	80	53	37.45	2,147
Copper nail in hub, north of road, 5 feet southeast of "U. S." on cedar tree.....	34	03	07.79	80	53	27.30	1,158

## From bench mark 80 to county-line stone on wire road—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Copper nail in hub, north of road, 7 feet south of "U. S." on pine tree.....	34 03 10.50	80 53 17.13	900
Copper nail in hub, south of road, 54 feet east of nail in hackberry tree.....	34 03 07.05	80 52 44.48	3,020
Copper nail in hub, south of road, 8 feet north of "U. S." on hickory tree.....	34 03 10.51	80 52 20.34	1,811
Copper nail in hub, north of road, 5 feet south of telephone pole marked "U. S.".....	34 03 12.33	80 51 46.88	2,823
Copper nail in hub, 25 feet northwest of milepost 12.....	34 03 10.60	80 51 19.98	2,267
Copper nail in hub, south of road, 14 feet west of "U. S." on telephone pole.....	34 03 06.67	80 50 49.32	2,610
Copper nail in hub, south of road, 25 feet northwest of milepost 15-16, 30 feet west of "U. S." on telephone pole.....	34 03 05.60	80 50 24.42	2,095
Copper nail in hub, north of road, 5 feet southwest of "U. S." on telephone pole.....	34 03 11.53	90 50 05.39	1,709
Copper nail in hub, south of road, at crossroads, 14 feet east of "U. S." on oak tree, 25 feet west of "U. S." on oak tree.....	34 03 10.79	80 49 51.39	1,178
Copper nail in hub north of road at forks, 30 feet southeast of "U. S." on oak.....	34 03 17.47	80 49 30.69	1,868
Milepost marked "14," center of.....	34 03 22.97	80 49 14.65	1,460
Copper nail in hub, at northwest corner of crossroads, 35 feet southwest of "U. S." on oak tree, 30 feet northwest of "U. S." on telephone pole.....	34 03 32.74	80 49 00.70	1,536
Copper nail in hub, at northeast corner of crossroads, 3 feet south of mail box.....	34 03 43.44	80 48 40.02	2,047
Copper nail in hub, north of road, 12 feet west of "U. S." on oak tree.....	34 03 53.15	80 48 08.08	2,860
Copper nail in hub, south of road, 18 feet west of "U. S." on oak tree, 12 feet northeast of "U. S." on oak tree, 25 feet southeast of "U. S." on telephone pole.....	34 03 57.41	80 47 35.86	2,744
Copper nail in hub, east of road, 60 feet northeast of concrete bridge, 93 feet southeast of blazed gum tree near Messers mill.....	34 04 16.63	80 47 07.87	3,053
Copper nail in hub, east of road, 37 feet south of "U. S." on telephone pole, 29 feet east of blazed oak tree.....	34 04 51.00	80 47 10.04	3,479
Copper nail in hub, east of road, 8 feet southwest of "U. S." on telephone pole, 25 feet northeast of blazed oak tree.....	34 05 15.70	80 47 04.92	2,520
Copper nail in hub, west of road, 30 feet west of blazed oak tree.....	34 05 39.21	80 46 57.89	2,472

## From copper-nail station 1622 to bench mark 65. (By P. W. McMillen in 1918.)

Copper nail in hub, west side of road, 7 feet southeast of "U. S." on oak tree, 15 feet northeast of "U. S." on oak tree.....	34 05 10.68	80 47 19.48	2,142
Copper nail in hub, east side of road, 20 feet northwest of "U. S." on oak tree, 23 feet northeast of "U. S." on pine tree.....	34 05 33.68	80 47 16.09	2,343
Copper nail in hub, east side of road, 68 feet southeast of "U. S." on oak, 58 feet north of "U. S." on pine tree.....	34 05 59.86	80 47 33.18	3,010

## From copper-nail station 1192 to copper-nail station 1606. (By P. W. McMillen in 1918.)

Copper nail in hub, west side of road, 11 feet east of "U. S." on pine tree.....	34 06 03.58	80 48 34.15	1,646
Copper nail in hub, east side of road, 14 feet southwest of "U. S." on pine tree, 30 feet east of "U. S." on pine tree.....	34 05 31.05	80 48 36.02	3,292
Copper nail in hub, west side of road, 30 feet northeast of "U. S." on gate post.....	34 05 20.33	80 48 44.34	1,289
Copper nail in hub, west side of road, 18 feet northwest of "U. S." on oak tree, 55 feet southwest of "U. S." on oak tree.....	34 04 50.58	80 49 05.43	3,493
Copper nail in floor of bridge over spillway to dam, opposite mill door.....	34 04 29.86	80 49 16.00	2,276
Copper nail in hub, west of road, 25 feet west of "U. S." on pine tree, 25 feet northwest of "U. S." on pine tree.....	34 04 06.66	80 49 15.36	2,346
Copper nail in stump, east of road, 8 feet west of "U. S." on pine tree, 12 feet south of "U. S." on pine tree.....	34 03 45.80	80 49 09.21	2,173

## From bench mark 64 to copper-nail station 1597.

Copper nail in hub, west side of road, 23 feet southeast of "U. S." on pine tree, 50 feet southwest of "U. S." on gatepost.....	34 05 36.92	80 49 43.23	3,731
Copper nail in hub, west side of road, at forks, 20 feet southwest of "U. S." on oak tree, 47 feet northeast of "U. S." on oak tree.....	34 05 06.89	80 49 49.34	3,079
Copper nail in hub, west side of road, at forks, 25 feet north of "U. S." on pine tree, 25 feet east of "U. S." on oak tree.....	34 04 45.92	80 50 01.72	2,360

## From bench mark 64 to copper-nail station 1597—Continued.

Station.	Latitude.	- Longitude.	Distance between stations.
Copper nail in hub, at southeast corner of crossroads, 20 feet northeast of "U. S." on pine tree, 43 feet northwest of "U. S." on gum tree.....	34 04 18.23	80 49 55.10	Feet. 2,855
Copper nail in hub, west side of road, 8 feet southwest of "U. S." on post at southwest corner of W. Hannwood's house.....	34 03 52.16	80 50 03.28	2,722
Copper nail in hub, in triangle of road forks, 25 feet west of "U. S." on oak tree, 45 feet northeast of "U. S." on oak tree..	34 03 26.34	80 50 11.68	2,706

## From copper-nail station 1592 to copper-nail station 1071.

Copper nail in hub, at forks, 16 feet southwest of "U. S." on stump, 18 feet east of "U. S." on oak tree.....	34 03 31.15	80 51 38.06	2,577
Copper nail in hub, at forks, 40 feet north of bridge over spillway of Brazels Mill, 50 feet west to "U. S." on oak tree.....	34 03 37.96	80 51 59.40	1,921
Copper nail in hub, north edge of road, 10 feet east to blazed oak tree, 30 feet south west to "U. S." on pine tree.....	34 03 49.42	80 51 41.91	1,874
Copper nail in hub, at northwest corner of crossroads.....	34 04 01.09	80 51 04.38	3,370
Copper nail in hub, at southeast corner of crossroads, 19 feet southeast of two blazed pine trees.....	34 04 29.30	80 51 13.02	2,943
Copper nail in hub, on west edge of road, 19 feet southeast of "U. S." on oak tree, 85 feet northwest of "U. S." on pine tree..	34 04 55.83	80 51 07.35	2,724

## From copper-nail station 1818 to copper-nail station 1596.

Copper nail in hub, west of road, 12 feet northeast of "U. S." on pine tree, 15 feet northeast to "U. S." on oak tree.....	34 03 35.02	80 50 38.72	3,406
Copper nail in stump, west of road, 15 feet west to blazed elm tree, 25 feet south to blazed elm tree.....	34 03 21.21	80 50 28.70	1,631

## From copper-nail station 1576 to bench mark 62.

Copper nail in hub, west side of road, 17 feet east of "U. S." on pine tree, 42 feet northwest of "U. S." on pine tree.....	34 03 23.51	80 53 19.35	1,330
Copper nail in hub, north side of road, 16 feet west of "U. S." on pine tree, 11 feet south of "U. S." on pine tree.....	34 03 53.24	80 53 00.97	3,379
Copper nail in hub, west side of road, 23 feet southwest of "U. S." on pine tree, 17 feet southeast of "U. S." on pine tree.....	34 04 18.01	80 52 55.91	2,540

## From copper-nail station 1875 to copper-nail station 1930.

Copper nail in hub, north side of road, 31 feet southeast of "U. S." on oak tree, 34 feet northeast of "U. S." on pine tree.....	34 03 30.59	80 53 53.25	2,943
Copper nail in hub, west side of road, 11 feet south of "U. S." on pine tree, 10 feet north of "U. S." on pine tree.....	34 03 41.57	80 54 11.38	1,887

## From copper-nail station 1805 to copper-nail station 1059.

Copper nail in hub, east of road, at northwest corner of field, 35 feet north of nail in pine tree, 12 feet west of nail in oak tree....	34 03 53.24	80 52 19.62	2,298
Copper nail in hub, east of road, 250 feet north of church, 15 feet south of "U. S." in pine tree, 6 feet west of "U. S." in oak tree....	34 04 00.76	80 52 42.02	2,032
Copper nail in hub, west side of road, 25 feet southwest of forks, 14 feet southeast to "U. S." on pine tree, 12 feet northeast to "U. S." on pine tree.....	34 04 12.15	80 52 38.47	1,192
Copper nail in hub, east of road, 28 feet southeast of "U. S." on gum tree, 17 feet south of "U. S." on gum tree.....	34 04 32.09	80 52 40.52	2,025
<b>By L. F. Biggs in 1918.</b>			
Copper nail in root of pine tree painted "P. T. 1".....	34 02 45.52	80 44 04.46	.....
Copper nail in root of pine stump, 30 feet west of road, painted "U. S. P. T. 2".....	34 02 21.32	80 43 47.87	2,816
Copper nail in hub, west side of road, 42 feet southwest of tree marked "U. S. P. T. 3".....	34 02 13.39	80 43 29.93	1,709
Copper nail in log, east side of road, painted "U. S. P. T. 4".....	34 01 55.38	80 42 59.62	3,134
Copper nail in stump, west side of road, 200 feet south of stream, near tree painted "U. S. P. T.".....	34 01 23.88	80 42 57.78	3,187
Copper nail in pine tree at crossroads, painted "U. S. P. T. 6"....	34 01 08.01	80 42 31.86	2,707

## From copper-nail station 3011 to Shady Grove. (By L. F. Biggs in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
Copper nail in root of pine tree, 40 feet north of forks at house, tree painted "U. S. P. T. 7".....	34 02 35.94	80 43 38.64	<i>Feet.</i> 2,394
Copper nail in root of pine tree, east of road, tree painted "U. S. P. T. 8".....	34 02 48.67	80 43 25.37	1,703
Copper nail in root of china tree, 20 feet north of cabin, tree painted "U. S. P. T. 9".....	34 03 03.26	80 43 11.55	1,876
Copper nail in root of stump, west of road, at house, tree painted "U. S. P. T. 10".....	34 03 20.55	80 43 04.28	1,852
Copper nail in root in road, 12 feet west of stump, tree painted "U. S. P. T. 11".....	34 03 45.90	80 43 12.89	2,661

## From copper-nail station 1476 to copper-nail station 1246.

Copper nail in hub, in trail, 240 feet south of stream crossing, near oak tree, painted "U. S. P. T. 12".....	34 02 00.83	80 45 05.58	3,362
Hickory tree, west of road, painted "U. S. P. T. 13".....	34 01 45.11	80 44 52.63	1,926
Copper nail in hub, northeast of road, 200 feet east of forks, near oak tree painted "U. S. P. T. 14".....	34 01 34.17	80 44 42.25	1,407
Corner of picket fence at house, near oak tree painted "U. S. P. T. 15".....	34 01 32.25	80 44 16.09	2,211
Copper nail in root of oak tree, at stream crossing, near oak tree painted "U. S. P. T. 16".....	34 01 04.00	80 43 54.46	3,387

## From Ancrum Ferry road to Kaufman School.

Copper nail in base of pine tree, east of road, painted "U. S. P. T. 17".....	34 02 02.63	80 45 47.93	2,676
Copper nail in base of pine tree, east of road, at sharp angle to south painted "U. S. P. T. 18".....	34 01 48.08	80 46 09.34	2,326
Copper nail in base of pine tree, west of road, painted "U. S. P. T. 19".....	34 01 25.83	80 46 10.89	2,252
Copper nail in hub, south of road, 9 feet west of oak tree, painted "U. S. P. T. 20".....	34 01 17.47	80 46 20.18	1,149
Copper nail in base of pecan tree, 160 feet west of road, 20 feet north of crossroads, painted "U. S. P. T. 21".....	34 01 07.14	80 46 47.56	2,530
Copper nail in stump, in field, 250 feet northeast of house, painted "U. S. P. T. 22".....	34 00 29.54	80 47 07.90	4,168

## From Union School to Ancrum Ferry road.

Copper nail in base of oak tree, painted "U. S. P. T. 24".....	34 00 09.49	80 49 14.72	2,983
Copper nail in base of oak tree, at forks, painted "U. S. P. T. 25".....	34 00 38.58	80 49 17.51	2,950
Copper nail in base of pine tree, north of road, painted "U. S. P. T. 26".....	34 00 54.85	80 49 22.43	1,694
Copper nail in stump, west of road, painted "U. S. P. T. 27".....	34 01 13.34	80 49 41.78	2,478
Copper nail in base of cherry tree, west of road, at forks to mill, painted "U. S. P. T. 28".....	34 01 28.25	80 49 50.63	1,682

## From bench mark 72 to copper-nail station 3160.

Copper nail in base of gum tree, west of road, 100 feet northeast of house, painted "U. S. P. T. 29".....	34 00 26.35	80 44 29.48	2,997
Copper nail in base of pine snag, 30 feet north of road, painted "U. S. P. T. 30".....	34 00 51.18	80 44 29.36	2,511
Copper nail in root in road, pine tree east of road painted "U. S. P. T. 31".....	34 01 13.49	80 44 46.69	2,686
Pine tree, 30 feet west of road, near forks to mill, painted "U. S. P. T. 32".....	34 01 22.32	80 44 54.48	1,109
Copper nail in base of pine tree, 50 feet south of road, painted "U. S. P. T. 33".....	34 01 31.55	80 45 17.66	2,164
Copper nail in stump, north of road, painted "U. S. P. T. 34".....	34 01 32.66	80 45 47.35	2,500

## From bench mark 73 to copper-nail station 3167.

Copper nail in stump, west of road, painted "U. S. P. T. 35".....	34 00 01.49	80 46 06.13	2,766
Copper nail in base of pine tree, 30 feet west of road, painted "U. S. P. T. 36".....	34 00 18.75	80 45 54.37	2,005
Copper nail in stump, at forks, painted "U. S. P. T. 37".....	34 00 35.76	80 46 03.57	1,887
Copper nail in base of oak tree, east of road, at forks on top of hill, painted "U. S. P. T. 38".....	34 00 54.37	80 46 01.90	1,888

From copper-nail station 1622 to bench mark 85. (By P. W. McMillen in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Copper nail in hub.....	34	04	23.24	80	47	09.15	2,802
Copper nail in base of oak tree, in road forks, marked "Elev. 229.4".....	34	04	20.20	80	46	45.08	2,064
Copper nail in stump, 300 feet northwest of house, in cotton field.....	34	04	17.96	80	46	27.30	1,514
Copper nail in stump, north of road, 14 feet north of blazed stump, 14 feet northeast of blazed stump.....	34	04	13.48	80	46	16.54	1,012
Copper nail in hub, south of road, at northeast corner of field, 25 feet south to blazed pine tree, 25 feet northwest to blazed oak tree.....	34	03	58.70	80	45	51.50	2,581
Spike, in base of pine tree, south of road, 20 feet northeast of gate, elevation on gate "286.8".....	34	03	58.64	80	45	21.45	2,528
Copper nail in hub, at northeast corner of crossroads, 18 feet northeast of blaze on oak tree, 26 feet southeast of blaze on pine tree.....	34	03	52.96	80	44	58.23	2,035
Copper nail in hub, east of road, 15 feet east of blaze on oak tree, 14 feet south of blaze on oak tree.....	34	03	25.54	80	44	47.54	2,914
Copper nail in hub, north of road, 100 feet north of church 45 feet northwest of blaze on oak tree, 30 feet south of blaze on oak tree.....	34	03	11.72	80	44	34.23	1,790

## From copper-nail station 1993 to copper-nail station 1178.

Copper nail in hub, east of road, 20 feet east of blazed oak tree, 45 feet southwest of blaze on oak tree.....	34	04	30.50	80	46	04.53	2,299
Copper nail in hub, center of crossroads, 75 feet west of blaze on oak tree, 24 feet northeast of blaze on pine tree.....	34	04	49.46	80	45	31.98	3,347
Copper nail in hub, north of road, at forks, 20 feet southeast of corner fence post, 14 feet southwest of blaze on oak tree.....	34	05	05.69	80	45	17.81	2,028
Copper nail in hub, 20 feet north of road, at forks, 62 feet north of blaze on pine tree, 33 feet southeast of corner of sawmill.....	34	04	56.16	80	44	31.16	.....
Copper nail in hub, north of road, 16 feet northwest of chimney, 53 feet northeast of fence post.....	34	04	36.36	80	43	54.53	3,675
Copper nail in hub, north of road, at forks, 6 feet southwest of blaze on oak tree, 25 feet north of blaze on oak tree.....	34	04	09.64	80	43	33.44	3,232

## From copper-nail station 2087 to copper-nail station 1178.

Copper nail in hub, south of road, at forks, 20 feet northeast of blaze on pine tree, 20 feet south of blaze on pine tree.....	34	04	53.55	80	43	44.80	2,290
Copper nail in hub, north of road, at forks.....	34	05	07.10	80	43	35.68	1,572

## From copper-nail station 2102 to copper-nail station 1158.

Copper nail in hub, on west side of road, 12 feet northwest of blaze on pine stump.....	34	05	27.62	80	43	45.08	2,221
Copper nail in hub, on west side of road, 12 feet west of blaze on pine tree, 30 feet north of blaze on oak tree.....	34	05	58.90	80	43	34.50	3,285

## From copper-nail station 2143 to copper-nail station 2065.

Copper nail in hub, on west side of road, 45 feet northwest of blaze on oak tree, 36 feet south of blaze on pine tree.....	34	05	51.28	80	44	04.17	2,612
Copper nail in hub, on west side of road, 13 feet northwest of blaze on oak tree, 30 feet east of blaze on stump.....	34	05	20.11	80	44	02.43	3,156
Copper nail in hub, on north side of road, 6 feet east of blaze on gum tree, 18 feet southwest of blaze on oak tree.....	34	04	57.72	80	44	13.36	2,444

## From copper-nail station 2055 to copper-nail station 1141.

Copper nail in hub, 50 feet east of road, 12 feet southwest of southwest corner of northwest barn.....	34	05	23.97	80	44	53.38	2,252
Copper nail in hub, east of road, 15 feet south of creek, 5 feet west of blaze on gum tree, 15 feet southeast of blaze on gum tree....	34	05	51.09	80	44	50.18	2,755

## From copper-nail station 2053 to bench mark 66.

Station.	Latitude.	Longitude.	Distance between stations.
Copper nail in hub, on west side of road, 10 feet north of blaze on oak tree, 37 feet southwest of blaze on oak tree.....	° ' " 34 05 23.85	° ' " 80 45 43.38	Feet. 2,827
Copper nail in hub, on west side of road, 12 feet northeast of blaze on pine tree, 25 feet southwest of blaze on pine tree.....	34 05 42.54	80 45 56.66	2,194

## From copper-nail station 2050 to copper-nail station 1490.

Copper nail in stump, west of road, 6 feet northwest of blaze on oak tree, 20 feet southwest of blaze on oak tree.....	34 04 21.86	80 45 24.33	2,862
Copper nail in hub, on east side of road, at forks, 25 feet east of "U. S." on gatepost.....	34 04 04.25	80 45 02.86	2,536
Copper nail in hub, on east side of road, 5 feet northwest of blaze on gum tree, 15 feet southeast of blaze on oak tree.....	34 04 11.08	80 44 30.68	2,795
Copper nail in stump, northeast corner of crossroads, 5 feet south of blaze on oak tree, 30 feet north of blaze on gum tree.....	34 04 19.79	80 44 07.53	2,136
Copper nail in hub, east side of road, 15 feet southeast of blaze on oak tree, 25 feet east of blaze on pine tree.....	34 03 53.99	80 44 00.52	2,674

## From copper-nail station 1616 to bench mark 84.

Copper nail in hub, on south side of road, 8 feet north of blaze on oak tree, 20 feet southwest of blaze on oak tree.....	34 03 45.83	80 46 57.74	3,413
Copper nail in hub, on east side of road, 18 feet northeast of blaze on hickory tree, 10 feet west of blaze on oak tree.....	34 03 31.68	80 46 45.76	1,750
Copper nail in hub, west side of road, 14 feet southeast of blaze on oak tree.....	34 03 07.14	80 46 27.28	2,929
Copper nail in hub, on east side of road, 30 feet north of forks, 8 feet east of blaze on oak tree.....	34 02 59.17	80 46 15.38	1,285

## From copper-nail station 1459 to copper-nail station 1436.

Copper nail in hub, on east side of road, 15 feet northeast of blaze on oak tree, 25 feet northwest of blaze on oak tree.....	34 02 28.22	80 47 58.72	2,108
Copper nail in hub, on east side of road at forks, 14 feet east of blaze on pine tree, 20 feet northwest of blaze on oak tree.....	34 02 49.13	80 48 00.94	2,121
Copper nail in hub, on north side of road, 15 feet east of blaze on pine tree, 18 feet northwest of blaze on oak tree.....	34 03 01.47	80 48 18.67	1,944
Copper nail in hub, south side of road, 50 feet south of blaze on oak tree, 40 feet northeast of blaze on oak tree.....	34 03 10.44	80 48 43.95	2,313
Copper nail in hub, on north side of road, 40 feet northeast of blaze on pine tree, 45 feet west of blaze on oak tree.....	34 03 10.89	80 49 00.17	1,366
Copper nail in hub, south of road, 20 feet south of blaze on oak tree, 25 feet southeast of blaze on oak tree.....	34 03 03.29	80 49 20.12	1,847
Copper nail in hub, on south side of road, 6 feet northeast of blaze on pine tree, 25 feet south of blaze on oak tree.....	34 02 44.14	80 49 47.66	3,020
Copper nail in hub, on south side of road, at forks, 40 feet south of blaze on oak tree, 20 feet west of blaze on oak tree.....	34 02 25.80	80 50 09.73	2,623
Copper nail in hub, on west side of road, in center of triangle formed by three blazed oak trees.....	34 02 24.19	80 50 29.12	1,640
Copper nail in hub, on east side of road, 6 feet northwest to pine stump, 16 feet southwest of blaze on oak tree.....	34 02 39.41	80 50 53.13	2,540
Copper nail in hub, on west side of road at forks, 25 feet north of blaze on oak tree, 20 feet south of blaze on oak tree.....	34 02 32.36	80 51 17.76	2,193
Copper nail in hub, on west side of road, 12 feet northwest of blaze on oak tree, 35 feet northeast of blaze on pine tree.....	34 02 05.88	80 51 21.61	2,707

## From copper-nail station 1459 to copper-nail station 1436.

Copper nail in hub, on west side of road, in line with south end of house, 20 feet east of wire fence.....	34 00 06.43	80 50 54.13	3,340
Copper nail in hub, on east side of road, 35 feet north of crossroads.	34 00 28.01	80 50 44.06	2,341
Copper nail in hub, 15 feet north of right-angle turn in road, 30 feet north of blaze on pine tree.....	34 01 02.93	80 50 27.98	3,779
Copper nail in hub, 40 feet west of road, 160 feet southwest of house.....	34 01 25.34	80 50 19.30	2,379
Copper nail in hub, on north side of road, 50 feet east of forks...	34 01 43.02	80 50 06.49	2,532

## From bench mark 83 to copper-nail station 3171. (By L. F. Biggs in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Copper nail in base of pine tree, 110 feet west of road, painted "U. S. P. T. 39".....	34	01	48.29	80	48	06.92	3,500
Copper nail in stump, on south side of road, near tree, painted "U. S. P. T. 40".....	34	01	35.57	80	47	36.19	2,888
Tree west of road, in front of vacant house, painted "U. S. P. T. 41".....	34	01	26.51	80	47	11.83	2,247

## From Ancrum Ferry road southward.

Copper nail in root of pine tree, 30 feet south of road, at south edge of clearing, painted "U. S. P. T. 42".....	34	01	55.16	80	47	21.51	2,000
Copper nail in root of pine tree, east of road, at forks, painted "U. S. P. T. 43".....	34	01	50.80	80	46	51.06	2,600
Copper nail in root of oak tree, north side of road, west of stream, painted "U. S. P. T. 45".....	34	01	35.77	80	46	37.07	1,924

## From milepost 15 to bench mark 83. (By P. W. McMillen in 1918.)

Copper nail in hub, on west side of road, 4 feet north of blaze on pine tree, 8 feet northwest of blaze on pine tree.....	34	00	16.12	80	48	03.66	2,764
Copper nail in hub, on north side of road, at crossroads, 14 feet southeast of blaze on oak tree, 12 feet northwest of blaze on oak tree.....	34	00	38.30	80	48	12.41	2,360
Copper nail in hub, on east side of road, at forks, 8 feet northwest of blaze on oak tree, 10 feet southeast of blaze on oak tree.....	34	01	03.25	80	48	15.64	2,537
Copper nail in hub, west of road, 25 feet north of blaze on pine tree, 25 feet northeast of blaze on oak tree.....	34	01	29.76	80	48	04.18	2,850
Copper nail in hub, on west side of road, 10 feet north of oak tree, 25 feet southwest of blaze on oak tree.....	34	01	54.63	80	48	10.70	2,573

## From copper-nail station 1984 to copper-nail station 1670.

Copper nail in hub, south of road, 10 feet northeast of blaze on oak tree, 15 feet south of blaze on oak tree.....	34	04	14.65	80	47	31.18	1,970
Copper nail in hub, on south side of road, 16 feet west of creek, 8 feet north of blaze on pine tree, 20 feet west of blaze on pine tree.....	34	04	21.35	80	47	52.94	1,952
Copper nail in stump, in open field, 120 feet southeast of gate, 3 feet southwest of oak tree.....	34	04	31.08	80	48	09.43	1,700
Copper nail in hub, east of road, 14 feet southeast of corner of yard fence.....	34	05	06.25	80	48	08.22	3,559
Copper nail in hub, on north side of road, 50 feet west of gate.....	34	05	17.48	80	48	33.01	2,373
Copper nail in stump of telegraph pole, east of railroad, 150 feet south of road crossing.....	33	58	52.53	80	57	22.10	.....
East end of concrete-tile drain.....	33	59	15.78	80	57	20.58	2,353
Level bench mark, copper nail in west end of switch tie opposite switch stand. Elevation, 199.3.....	33	59	43.51	80	57	15.73	2,834
Copper nail in hub, west of road, 5 feet south of blazed pine tree, 6 feet northeast to blaze on pine tree.....	34	00	08.04	80	57	02.74	2,709
Copper nail in base of trolley-line pole between car tracks.....	34	00	38.99	80	56	44.44	3,486
Copper nail in west curb of concrete road, 20 feet north of T road west.....	34	00	55.41	80	56	26.43	2,247

## From bench mark 74 to copper-nail station 2820.

Copper nail in hub, south of road, 6 feet north of blaze on persimmon tree, 10 feet south of blaze on oak tree.....	33	59	57.32	80	49	16.04	1,972
Copper nail in hub, on north side of road, 30 feet southeast of blaze on persimmon tree, 40 feet northeast of blaze on pine tree.....	34	00	17.80	80	49	41.60	2,985
Copper nail in hub, on north side of road, 12 feet northwest of blaze on oak tree, 20 feet southeast of blaze on oak tree.....	34	00	28.95	80	50	04.32	2,220
Copper nail in hub, north of road, 5 feet south of blaze on pine tree, 22 feet west of blaze on gum tree.....	34	00	40.00	80	50	35.96	2,890
Copper nail in hub, south of road, 25 feet southeast of blaze on oak tree, 14 feet southwest of blaze on oak tree.....	34	00	40.24	80	51	02.55	2,240



## From copper-nail station 1434 to bench mark 65.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Copper nail in hub, west of road, at top of small hill.....	34	01	17.00	80	52	07.57	2,095
Copper nail in hub, west of road, 8 feet southeast of blaze on oak tree, 20 feet southwest of blaze on oak tree.....	34	01	00.65	80	51	54.05	2,008
Copper nail in hub, north of road, at forks, 25 feet southeast of blaze on oak tree, 14 feet north of blaze on oak tree.....	34	00	49.87	80	51	35.15	1,926
Copper nail in hub, at north corner of crossroads.....	34	00	11.69	80	51	18.38	.....
Copper nail in hub, north of road, 30 feet east of dead pine tree, 40 feet north of pine tree in field.....	33	59	47.26	80	51	50.40	3,655

## From bench mark 78 to Coast Survey station Jackson.

Copper nail in hub, west of road, 40 feet north of forks, 25 feet southwest of blaze on oak tree, 25 feet northwest of blaze on oak tree.....	33	59	09.64	80	56	04.10	3,194
Copper nail in hub, east of road, 4 feet east of gatepost at entrance to remount area.....	33	59	31.52	80	56	03.85	2,212
Copper nail in hub, east of road, opposite T road west.....	33	59	08.72	80	55	10.80	5,026
Copper nail in hub, east of road, at forks, 17 feet southwest of blaze on hickory tree, 14 feet north of blaze on hickory tree.....	33	59	30.87	80	54	44.19	2,640
Copper nail in hub, west of road, 5 feet west of stump, 15 feet northwest of blaze on fence post.....	33	59	49.21	80	55	06.52	2,126
Copper nail in hub, 100 feet north of road, 52 feet north of blaze on pine tree, 55 feet southeast of blaze on stump.....	34	00	12.35	80	55	23.21	2,730
Copper nail in hub, east of road, 16 feet northwest of blaze on oak tree, 18 feet southwest of blaze on oak tree.....	34	00	39.89	80	55	21.51	2,787

## From copper-nail station 1434 to copper-nail station 1558.

Copper nail in hub, west of road, 15 feet west of blaze on oak tree, 11 feet northeast of blaze on oak tree.....	34	01	44.81	80	52	16.66	1,336
Copper nail in hub, north of road, opposite T road south, 18 feet northwest of blaze on oak tree.....	34	02	06.81	80	52	08.27	2,229
Copper nail in hub, north of road, 10 feet east of blaze on oak tree, 20 feet northwest of blaze on oak tree.....	34	02	03.51	80	52	42.90	2,100
Copper nail in hub, on south side of pine tree, at northwest corner of crossroads. Elevation marked "336.1".....	34	01	59.66	80	52	54.97	1,086
Copper nail in stump, south of road.....	34	02	00.94	80	53	16.07	1,780
Copper nail in stump, east of road, level bench mark "317.3".....	34	01	50.50	80	53	46.89	2,800
Level bench mark on post, on southwest corner of bridge over outlet of pond. Elevation, 248.3.....	34	01	53.95	80	54	24.50	3,184

## From copper-nail station 2755 to copper-nail station 1571.

Copper nail in hub, east of road, 10 feet southeast of blaze on pine tree, 35 feet east of blaze on pine tree.....	34	02	23.30	80	52	34.63	1,604
Copper nail in hub, at northeast corner of crossroads, 11 feet southwest of blaze on oak tree, 23 feet northwest of blaze on oak tree.....	34	02	37.05	80	52	47.59	1,766
Copper nail in hub, east of road, 31 feet southeast of blaze on pine tree, 13 feet north of blaze on oak tree.....	34	02	50.73	80	53	03.19	1,905
Copper nail in hub, south of road, 27 feet southwest of blaze on oak tree, 37 feet southeast of blaze on pine tree.....	34	02	51.66	80	53	18.96	1,330

## From copper-nail station 2389 to copper-nail station 1608.

Copper nail in hub, east of road, 25 feet northwest of blaze on oak tree, 32 feet north of blaze on pine tree.....	34	03	14.06	80	48	12.88	1,473
Copper nail in hub, west of road, 14 feet southeast of blaze on oak tree 25 feet west of blaze on pine tree.....	34	03	30.31	80	48	27.77	2,066

## From Coast Survey station Jackson to copper-nail station 1430. (By L. F. Biggs in 1918.)

Copper nail in root, in road near tree, painted "Elev. 319.3" U. S. P. T. 46.....	34	00	58.72	80	54	54.11	2,381
Copper nail in stump, near tree, painted "U. S. P. T. 5".....	34	00	36.32	80	54	20.96	3,594
Copper nail in hub, north of road, near east end of clearing, painted "U. S. P. T. 48".....	34	00	27.50	80	53	46.32	3,050

## From Coast Survey station Jackson to copper-nail station 1430—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Copper nail in hub, north of road, just west of gate to large house.	34	00	21.90	80	53	18.41	2,417
Copper nail in root, north of road. Elevation, 343.1.....	34	00	12.07	80	53	00.02	1,839
Copper nail in hub, north of road, at crossroads, near tree, painted "U. S. P. T. 50".....	34	00	30.46	80	52	37.86	2,634
Copper nail in hub, east of road, near forks, near tree, painted "U. S. P. T. 52".....	34	00	46.72	80	52	05.94	3,150
Copper nail in hub, north of road, at crossroads, near tree, painted "U. S. P. T. 53".....	34	01	11.47	80	52	17.32	2,678

## From U. S. primary traverse station 53 to U. S. primary traverse station 48.

Copper nail in hub, south of road, near tree, painted "U. S. P. T. 54".....	34	01	07.14	80	52	45.30	2,394
Copper nail in hub, south of road, on top of hill, near tree, painted "U. S. P. T. 55".....	34	01	03.34	80	53	10.99	2,195
Copper nail in hub, north of road, near tree, painted "U. S. P. T. 56".....	34	00	56.84	80	53	41.30	2,634
Copper nail in hub, north of road, at forks, near tree.....	34	00	49.08	80	54	00.44	1,792

## From copper-nail station 3480 to bench mark 77.

Copper nail in hub, east of road, 200 feet north of crossroads, opposite wire road north.....	33	59	55.31	80	53	13.82	2,052
Copper nail in hub, west of road, 200 feet south of field.....	33	59	29.92	80	53	22.01	2,655

## From copper-nail station 2692 to copper-nail station 2657. (By P. W. McMillen in 1918.)

Copper nail in hub, 20 feet northwest of highway and street railway crossing, 35 feet north of corner of freight shed.....	33	59	41.41	80	56	22.53	1,863
Copper nail in stump, 15 feet north of street railway, opposite west door of freight house.....	33	59	44.56	80	56	39.11	1,432
Copper nail in trolley pole, 7 feet north of street-car track.....	33	59	48.67	80	57	03.23	2,071

## From copper-nail station 2915 to Coast Survey station Jackson.

Copper nail in stump, west of road, opposite garbage disposal plant.	33	59	53.94	80	56	17.48	1,334
Copper nail in stump, in field, 15 feet south of road, 60 feet south of forks.....	34	00	01.49	80	56	16.12	768
Copper nail in stump, south of road, 30 feet east of forks.....	34	00	22.16	80	56	03.40	2,347
Copper nail in telephone pole, east of road, marked "U. S.".....	34	00	28.87	80	55	51.84	1,187
Copper nail in telephone pole, east of road, marked "U. S.".....	34	00	41.08	80	55	58.83	1,367
Level bench mark on southeast corner of bridge, marked "Elev. 244.9".....	34	00	50.57	80	56	18.88	1,942
Nail in blaze on pine tree, at corner of fence, west of gate to base hospital.....	34	01	08.96	80	55	57.43	2,592

## From copper-nail station 3407 to bench mark 77.

Copper nail in hub, 25 feet northeast of cherry tree at southeast corner of cabin.....	34	00	02.17	80	53	29.37	1,483
Copper nail in hub, at forks, 13 feet southwest to blaze on pine tree, 21 feet east to blaze on pine tree.....	33	59	46.18	80	53	43.23	1,992
Copper nail in hub, at northwest corner of field, 8 feet northeast of blaze on oak tree, 16 feet northwest to blaze on oak tree.....	33	59	31.34	80	53	59.80	2,047
Copper nail in stump, north of road, 30 feet southwest of corner of corn crib.....	33	59	05.24	80	54	04.31	2,665

## From primary traverse station 37 to bench mark 72. (By L. F. Biggs in 1918.)

Copper nail in hub, 30 feet south and 15 feet west of road forks..	34	00	23.04	80	45	40.21	1,900
Copper nail in hub, 50 feet east of house, 25 feet southeast of well.	34	00	13.55	80	45	13.80	2,421
Copper nail in stump, west of road, 35 feet south of T road west.	34	00	16.92	80	44	41.24	2,762

## From level bench mark 343.1 to Browns Chapel.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Copper nail in hub, south of road, at forks.....	34	00	08.13	80	52	44.62	1,356
Copper nail in hub, south of road, near danger sign.....	34	00	05.98	80	52	20.42	2,050
Copper nail in hub, at northeast corner of crossroads, 13 feet southeast of blaze on oak tree, 27 feet east of blaze on oak tree.....	34	05	46.92	80	51	23.31	.....
Copper nail in hub, 400 feet west of crossroads, 13 feet southeast of blaze on oak tree, 8 feet northwest of blaze on oak tree.....	34	06	05.73	80	51	30.73	2,000
Copper nail in hub, north of road, 7 feet east of blaze on pine tree, 13 feet west of blaze on oak tree.....	34	06	02.16	80	51	54.97	2,071
Copper nail in hub, north of road, 75 feet east of crossroads, 7 feet east of blaze on oak tree, 17 feet northwest of blaze on oak tree.....	34	05	54.02	80	52	22.63	2,468
Copper nail in hub, north of road, 10 feet southeast of blaze on oak tree, 8 feet southwest of blaze on oak tree.....	34	05	41.26	80	52	39.22	1,903
Copper nail in hub, north of road.....	34	05	35.29	80	52	52.59	1,273
Copper nail in hub, east of road, 35 feet south of forks.....	34	05	44.82	80	52	48.00	1,039
Copper nail in hub, south of road, east of field, 21 feet southeast of blaze on hickory tree, 31 feet northwest of blaze on pine tree.....	34	05	54.04	80	52	48.28	931
Washington Medlin's house, on north edge of road, at corner of yard; iron post stamped "Prim. Trav. Sta. No. 86, 1918 H".....	34	06	03.25	80	53	04.23	1,631
Copper nail in hub, on edge of road, near forks, 8 feet north of blaze on oak tree, 10 feet southwest of blaze on oak tree.....	34	05	55.22	80	53	31.81	2,458
Copper nail in hub, east of road, 25 feet south of gate, 12 feet south of blaze on pine tree, 10 feet southwest of blaze on pine tree.....	34	06	09.83	80	53	45.60	1,879
Copper nail in hub, northwest corner of crossroads, 12 feet northwest of blaze on oak tree, 45 feet southwest of blaze on oak tree.....	34	06	10.58	80	54	03.96	1,545

## Along Seaboard Air Line Ry.

Concrete post marked "18-19," south of road, 25 feet southwest of overhead railroad crossing.....	34	06	17.08	80	54	21.43	1,610
U. S. Coast and Geodetic Survey station Weddell A, 1918 (no description).....	34	06	05.81	80	54	50.24	2,678
U. S. Coast and Geodetic Survey value.....	34	06	06.01	80	54	50.32	.....
U. S. Coast and Geodetic Survey station Nob H, 1918 (no description).....	34	05	44.61	80	55	19.49	3,260
U. S. Coast and Geodetic Survey value.....	34	05	44.80	80	55	19.58	.....
Copper nail in tie (station 3692, Biggs).....	34	05	22.59	80	55	37.14	2,675
U. S. Coast and Geodetic Survey station Nob G, 1918, on the Seaboard Air Line Ry. right of way, at the curve 700 meters north of milepost 350, about 10 miles north of Columbia, at intersection of tangents to curve of east rail, 2.77 meters west of west rail, 0.5 meter below track. Reference mark: A mound, distance 20.64 meters, 8.10 meters east of east rail, about the same elevation as the track. Station mark: A standard disk set in top of square block of concrete.....	34	05	14.80	80	55	43.35	943
U. S. Coast and Geodetic Survey value.....	34	05	14.97	80	55	43.43	.....
U. S. Coast and Geodetic Survey station Nob G (prime), 1918, 0.5 mile west of Weddell station.....	34	04	58.55	80	56	12.51	2,953
U. S. Coast and Geodetic Survey value.....	34	04	58.71	80	56	12.59	.....
Nail in wooden guard rail, at southwest corner of crossing, 150 feet east of milepost 350.....	34	04	43.68	80	56	29.24	2,059
U. S. Coast and Geodetic Survey station Nob F, 1918, on the Seaboard Air Line Ry. right of way, at the second curve about 0.75 mile north of Dentsville railroad station, 1.25 miles south of Weddell railroad station, at intersection of tangents to curve of east rail of main track, 2.44 meters west of west rail. Reference mark: A piece of railroad rail standing upright and projecting two feet above ground with concrete about the base, distance 12.31 meters, 9.91 meters west of west rail. Station mark: A standard disk set in top of a square block of concrete.....	34	04	22.08	80	56	53.55	2,990
U. S. Coast and Geodetic Survey value.....	34	04	22.22	80	56	53.61	.....
Copper nail in hub, at southwest corner of crossing over railroad, 28 feet east of whistle post.....	34	04	04.10	80	57	09.60	2,265
Nail in switch tie, 50 feet northeast of crossing, at Dent, 5 feet north of north rail.....	34	03	50.26	80	57	27.20	2,037
U. S. Coast and Geodetic Survey station Nob C, 1918, 0.3 mile southwest of Dent, on Seaboard Air Line Ry. right of way, at the curve 520 meters north of milepost 352, about 8 miles north of Columbia railroad station, at intersection of tangents to curve of east rail of main track, 2 meters above the track, 10.27 meters east of east rail. Reference mark: A mound, distance 19.17 meters, about 2.5 meters above the track, 12.96 meters east of east rail. Station mark: A standard disk set in top of a square block of concrete.....	34	03	35.14	80	57	37.05	1,741
U. S. Coast and Geodetic Survey value.....	34	03	35.24	80	57	37.10	.....
Nail in guard rail at southwest corner of crossing.....	34	03	28.92	80	57	44.64	900

## Along Seaboard Air Line Ry.—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
U. S. Coast and Geodetic Survey station Nob B, 1918, 75 feet west of house, 75 feet southwest of crossing, on Seaboard Air Line Ry. right of way, at the first curve 0.5 mile north of milepost 353, about 7.5 miles north of Columbia, at intersection of tangents to curve of east rail, 22.05 meters east of east rail, on cultivated land. Reference mark: A mound, distance 16.77 meters, on the prolongation of southward tangent to curve of east rail, 27.5 meters east of east rail, about 1 meter below track. Station mark: A standard disk set in top of a square block of concrete.	34	03	08.09	80	58	10.05	Feet. 3,002
U. S. Coast and Geodetic Survey value.	34	03	08.15	80	58	10.08	.....
Nail in tie at southeast corner of crossing, 300 feet southeast of schoolhouse.	34	03	04.91	80	58	34.23	2,059
U. S. Coast and Geodetic Survey station Nob A, 1918, 500 feet northeast of overhead crossing, on the Seaboard Air Line Ry. right of way, at the curve 200 meters south of milepost 353, about 7 miles north of Columbia railroad station, at intersection of tangents to curve of east rail of main track, about 4 meters above track. Reference mark: A mound, distance 31.45 meters, on east bank of cut at curve, about 4 meters above track, 20 meters east of east rail. Station mark: A standard disk set in top of a square block of concrete.	34	03	01.93	80	58	56.70	1,916
U. S. Coast and Geodetic Survey value.	34	03	01.97	80	58	56.72	.....
Copper nail in hub, at forks, 20 feet south of blaze on pine tree, 20 feet northeast of blaze on pine tree.	34	02	43.91	80	58	43.97	2,110
Copper nail in hub, north of road, 40 feet east of crossroads, 16 feet west of blaze on pine tree, 20 feet north of blaze on oak tree.	34	02	27.67	80	58	26.11	2,227
Copper nail in hub, east of road, 14 feet west of blaze on pine tree, 20 feet northeast of blaze on hickory tree.	34	02	09.74	80	58	17.04	1,965
Copper nail, in hub, east of road, 35 feet south of forks, 11 feet south of blaze on pine tree, 11 feet east of blaze on pine tree.	34	01	49.07	80	58	04.50	2,341
Copper nail in hub, east of road, 10 feet northeast of blaze on oak tree, 25 feet northeast of blaze on oak tree.	34	01	20.30	80	57	47.92	3,226

## From copper-nail station 1071 to bench mark 59. (By L. F. Biggs in 1918.)

Copper nail in hub, at forks.	34	05	29.61	80	53	08.50	1,456
Copper nail in hub, south of road, at crossroads.	34	05	23.85	80	53	20.59	1,170
Copper nail in hub, 50 feet south of five corners.	34	04	51.64	80	53	30.38	3,360
Copper nail in hub, north of road, 10 feet northeast of second-class crossroads.	34	05	00.20	80	53	52.67	2,064
Copper nail in hub, south of road, 120 feet southeast of house, 150 feet east of forks.	34	04	55.77	80	54	18.76	2,238
Copper nail in hub, at forks.	34	05	03.64	80	54	41.64	.....
Copper nail in hub, north of road, 12 feet south of blaze on pine tree, at southwest corner of field.	34	05	06.89	80	55	06.59	2,124
Copper nail in root of tree, 5 feet north of road, 40 feet north of house.	34	04	54.40	80	55	40.67	3,132
Copper nail in hub, west of road, at angle in road.	34	04	33.76	80	55	48.17	2,182
Copper nail in hub, west of road, 30 feet west of forks, 200 feet southeast of barn.	34	04	14.87	80	55	33.46	2,276
Copper nail in hub, east of road, at northeast corner of crossroads.	34	03	57.14	80	55	19.74	2,131
Copper nail in hub, south of road, 20 feet northeast of blaze on persimmon tree.	34	03	58.19	80	54	53.89	2,211

## From copper-nail station 1020 to copper-nail station 4100.

Copper nail in hub, west of road, 3 feet north of blaze on pine tree, 50 feet north of level bench mark 284.4.	34	02	40.16	80	56	31.50	2,265
Copper nail in stump, east of crossroads, 35 feet west of blaze on oak tree, 75 feet east of pump.	34	03	05.84	80	56	43.08	2,773
Copper nail in stump, north of road, 5 feet east of blaze on pine tree.	34	03	11.71	80	56	32.13	1,097
Copper nail in stump, south of road, 16 feet northwest of blaze on pine tree.	34	03	20.07	80	56	15.10	1,664
Copper nail in stump, southeast of road, 12 feet west of oak tree, 18 feet southwest of pump.	34	03	31.75	80	55	51.54	2,307
Copper nail in hub, on base line of land survey, 5 feet east of a hub at right angle in base line.	34	03	48.58	80	55	53.80	1,715
Copper nail in hub, in front of house, 16 feet west of blaze on oak tree, 5 feet southeast of blaze on oak tree.	34	04	07.46	80	55	55.12	1,910
Copper nail in hub, west of road, 160 feet north of stream, near three blazed trees.	34	04	25.29	80	56	10.89	2,159

## From copper-nail station 4151 to copper-nail station 3667. (By P. W. McMillen in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Copper nail in hub, east of road, at forks, 32 feet south of blaze on persimmon tree, 42 feet southwest of blaze on pine tree....	34 01 47.61	80 57 37.83	2,729
Copper nail in hub, north of road, at forks, 6 feet southwest of blaze on pine tree, 8 feet northeast of blaze on pine tree.....	34 02 11.69	80 57 31.32	2,494
Copper nail in stump, east of road, 10 feet southwest of blaze on pine tree.....	34 02 18.01	80 57 16.41	1,410
Copper nail in stump, east of road, at forks, 20 feet east of blaze on pine tree.....	34 02 28.65	80 57 12.56	1,123
Copper nail in hub, west of road, 60 feet north of forks, 6 feet northeast of blaze on oak tree, 30 feet southeast of blaze on oak tree.....	34 02 51.75	80 57 07.66	2,373

## From copper-nail station 3602 to copper-nail station 4081. (By L. F. Biggs in 1918.)

Copper nail in hub, west of road, 200 feet southwest of crossroads.	34 05 32.06	80 54 29.76	3,365
Copper nail in stump, east of road, 100 feet north of clearing....	34 05 43.27	80 54 13.84	1,755
Copper nail in hub, west of road, near three blazed trees.....	34 05 53.46	80 54 09.58	1,578

## From copper-nail station 4108 to copper-nail station 3667.

Copper nail in hub, east of road, 5 feet south of southeast corner of bridge.....	34 03 33.45	80 57 13.70	2,047
Copper nail in hub, west of road, on top of hill.....	34 03 23.42	80 56 58.50	1,634

## From copper-nail station 3608 to Weddell.

Copper nail in hub, 50 feet northwest of crossroads.....	34 05 12.22	80 54 54.50	1,386
Copper nail in hub, south of road, 2,000 feet east of Weddell.....	34 05 22.01	80 55 20.89	2,429

## From copper-nail station 4186 to copper-nail station 4135. (By P. W. McMillen in 1918.)

Copper nail in stump, west of road, 10 feet north of forks, 14 feet northwest of blaze on oak tree, 35 feet northeast of blaze on oak tree.....	34 02 30.55	80 57 32.74	1,808
Copper nail in hub, at northeast corner of crossroads, 10 feet northeast of blaze on pine tree, 22 feet northeast of blaze on oak tree.....	34 02 19.95	80 57 54.92	2,154

## From copper-nail station 4127 to copper-nail station 4108.

Copper nail in hub, at forks, 14 feet northwest of blaze on oak tree, 14 feet south of blaze on oak tree.....	34 02 44.60	80 58 07.85	2,300
Copper nail in hub, north of road, at forks, 12 feet northeast of blaze on oak tree, 8 feet southeast of blaze on oak tree.....	34 02 48.81	80 57 57.54	964
Copper nail in stump, east of road, 14 feet northeast of blaze on oak tree.....	34 02 57.32	80 57 48.12	1,170
Copper nail in hub, east of road, 16 feet northeast of blaze on oak tree, 50 feet north of blaze on oak tree.....	34 03 14.31	80 57 43.63	1,758

## From copper-nail station 4112 along Seaboard Air Line Ry. to capitol,

Richland A, 1918, U. S. Coast and Geodetic Survey station on the Seaboard Air Line Ry. right of way, at the curve 330 meters north of milepost 354, 6 miles north of Columbia railroad station, at intersection of prolongation of southward tangent to curve of east rail and northward tangent to curve of west rail, 18.09 meters east of east rail. Reference mark: A mound distance 24.59 meters, 0.5 meter south of first telegraph pole north of station, 8.52 meters west of west rail of main track. Station mark: A standard disk set in top of block of concrete.....	34 03 20.87	80 59 29.57	3,365
U. S. Coast and Geodetic Survey value.....	34 03 20.91	80 59 29.62	.....
Richland, 1918, U. S. Coast and Geodetic Survey station, reference point to.....	34 03 22.98	80 59 53.23	2,002

From copper-nail station 4112 along Seaboard Air Line Ry. to capitol—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Hyatts, 1918, U. S. Coast and Geodetic Survey station on the Seaboard Air Line Ry. right of way, at the curve 150 meters south of milepost 355, about 600 meters north of Hyatts railroad station, at intersection of tangents to curve of west rail of main track, 2.12 meters west of west rail; U. S. Coast and Geodetic Survey bench mark T <sub>2</sub> , distant 200 meters. Station mark: A standard disk set in the top of a concrete block.	34	03	01.42	81	00	45.32	4,893
U. S. Coast and Geodetic Survey value.	34	03	01.44	81	00	45.33	.....
Road crossing.	34	02	30.13	81	01	40.52	5,620
Iron bridge, 240 feet north of hub in concrete base.	34	01	41.44	81	02	29.74	6,432
Elmwood B, U. S. Coast and Geodetic Survey station on the Seaboard Air Line Ry. right of way, about 2 miles north of Columbia passenger station, 70 meters north of milepost 358, 25 meters south of signboard painted "Yard Limit," 1.54 meters east of east rail of main track; standard disk set in top of square block of concrete.	34	01	16.77	81	02	43.78	2,768
U. S. Coast and Geodetic Survey value.	34	01	16.64	81	02	43.82	.....
Elmwood A, U. S. Coast and Geodetic Survey station, 200 feet west of railroad on top of bank, just west of the Seaboard Air Line Ry. right of way, at the curve 1 mile north of the railroad depot at Columbia, at intersection of tangents to curve of west rail of main track, about 35 meters west of west rail, 2 meters above the track. Station Elmwood, distant 20.4 meters, is about 1 meter above Elmwood A, on opposite side of public road. Reference mark: A mound, distance 37.48 meters. Station mark: A standard disk set in top of block of concrete.	34	00	50.87	81	02	58.66	2,895
U. S. Coast and Geodetic Survey value.	34	00	50.82	81	02	58.69	.....
Columbia D, 1918, station of the U. S. Coast and Geodetic Survey, in Columbia, on the Seaboard Air Line Ry. right of way, at north end of the curve 165 meters north of milepost 359, 60 meters south of overhead road crossing, on prolongation of northward tangent to curve of west rail of main track, 2.00 meters west of west rail; a standard disk in top of concrete block.	34	00	31.30	81	02	48.81	2,145
U. S. Coast and Geodetic Survey value.	34	00	31.25	81	02	48.82	.....
Columbia C, station of the U. S. Coast and Geodetic Survey, on the Seaboard Air Line Ry. right of way, at curve of the cut about 0.5 mile north of Columbia railroad station, 25 meters north of milepost 359, on prolongation of southward tangent to curve of east rail of main track, 2.63 meters west of west rail; standard disk in top of a concrete block.	34	00	27.57	81	02	45.90	447
U. S. Coast and Geodetic Survey value.	34	00	27.54	81	02	45.91	.....
Columbia A, 1918, station of the U. S. Coast and Geodetic Survey on the Seaboard Air Line Ry. right of way, at the first curve about 400 meters north of depot at Columbia, on prolongation of southward tangent to curve of west rail of main track, 7.76 meters east of east rail. Reference mark is center of fire plug, top of which is 2 feet above ground, distant 12.65 meters. Station mark: A standard disk set in top of concrete block.	34	00	17.07	81	02	27.09	1,905
U. S. Coast and Geodetic Survey value.	34	00	17.06	81	02	27.08	.....
Columbia, capitol dome, base of flagpole.	34	00	00.80	81	01	59.52	2,844
U. S. Coast and Geodetic Survey value.	34	00	00.78	81	01	59.49	.....

## CHAPIN QUADRANGLE.

East along south border of quadrangle to Lexington. (By R. B. Steele and Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Center of stream crossing	34	01	08.3	81	29	10.7	.....
Center of crossroads	34	00	10.1	81	28	20.0	7,273
T road west, 0.23 mile south of St. Mark Church	34	00	25.5	81	26	30.8	.....
Road fork	34	00	56.1	81	26	17.0	3,313
Horse Creek, center of bridge over	34	01	07.9	81	25	58.0	1,988
Road fork	34	01	07.6	81	25	23.8	2,884
Center of crossroads, 0.28 mile south of Beulah Church	34	00	59.4	81	24	36.9	4,032
Road fork, 420 feet east of, 10 feet from pine stump, 8 feet north of center of road	34	01	19.7	81	24	32.7	2,084
Crossroads	34	00	59.4	81	24	37.0	2,081
Center of bridge	34	00	48.8	81	24	09.9	2,518
Crossroads	34	00	31.4	81	23	41.0	3,007
Road fork	34	00	02.3	81	23	18.6	3,495

Magnetic declination near south border of quadrangle, 0° 10' E.

**CHARLESTON 15' QUADRANGLE (WANDO, FORT MOULTRIE, MELGROVE, AND CHARLESTON 7½' QUADRANGLES).****Northeast along highways. (By Oscar Jones in 1917.)**

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Mount Pleasant, computed by triangulation from three U. S. Coast and Geodetic Survey points.....	32	47	08.3	79	52	41.0	.....
Mount Pleasant, intersection of streets, 500 feet east of ferry wharf, northwest corner of Episcopal Church.....	32	47	18.1	79	52	46.0	1,083
Center of road, opposite milepost 4.....	32	47	40.4	79	51	42.0	5,914
Road fork, west of milepost 2.....	32	48	09.8	79	51	15.9	3,714
Three corners at road fork.....	32	48	20.6	79	51	07.8	1,288
Road fork.....	32	48	50.1	79	51	00.0	3,049
Road fork, in front of colored Baptist Church.....	32	49	32.5	79	50	16.6	5,665
Road fork.....	32	50	07.9	79	49	23.6	5,765
Center tower of brick church.....	32	50	38.3	79	48	50.1	4,198
Center of road, opposite church.....	32	51	25.9	79	47	51.3	6,945
Road fork.....	32	51	52.0	79	47	11.6	4,294
Road fork.....	32	52	08.7	79	46	49.4	2,535
Road fork.....	32	52	27.9	79	46	14.9	3,520
Crossroads.....	32	52	40.5	79	45	53.6	2,219

Magnetic declination in northeast part of quadrangle, 1.3° W.

**South along railroad near west border of quadrangle. (By E. L. McNair in 1917.)**

Milepost 156.....	32	56	56.4	79	59	56.2	.....
Inness flag station, road crossing.....	32	56	06.2	79	59	48.5	5,115
Milepost 158.....	32	55	19.2	79	59	17.6	5,436
Second-class road crossing.....	32	54	35.9	79	58	49.6	4,985
Public-road crossing.....	32	54	09.5	79	58	49.1	2,665
Crossing on branch of Southern Ry.....	32	53	28.3	79	58	48.3	4,170
North Charleston station, road crossing at.....	32	52	52.8	79	58	47.7	3,585
Center of circle, marked by concrete post 4 inches square with nail in top.....	32	52	52.5	79	59	07.1	1,656
Ashley Junction, main public-road crossing on Atlantic Coast Line R. R., center of north-bound track.....	32	52	16.9	79	59	47.9	5,010
Ashley Junction, Prim. Trav. Sta. No. 15 (previously described).....	32	51	57.7	79	59	47.2	1,942
Ashley Junction, public-road crossing, east rail, north-bound track.....	32	52	16.9	79	59	48.0	1,941

**Southeast along railroad. (By E. L. McNair in 1917.)**

Ashley Junction, intersection of Atlantic Coast Line and Southern railroads.....	32	51	56.0	79	59	51.9	.....
Ashley Junction, 430 feet east of intersection of Atlantic Coast Line and Southern railroads, in line with tangent west on Atlantic Coast Line R. R., 25 feet west of public road, 3 feet north of telephone pole, in Y of Atlantic Coast Line R. R.; iron post stamped "Prim. Trav. Sta. No. 15, 1917 Mac." Azimuth to center of top of water tank at Bennett, 0.75 mile distant, 65° 12'.....	32	51	57.7	79	59	47.2	435
Center of road crossing, north-bound track.....	32	51	43.6	79	59	30.2	2,033
Road crossing, center of south-bound track.....	32	51	09.3	79	58	53.9	4,647
Road crossing, opposite West flag station, Southern Ry.....	32	50	42.0	79	58	04.2	5,057
Road crossing, 60 feet southeast of signalman's tower.....	32	49	38.5	79	57	09.3	7,942

**Southeast along railroad.**

Street crossing, directly opposite Magnolia tower.....	32	48	56.0	79	57	03.5	4,329
Crossing of Seaboard Air Line and Atlantic Coast Line railroads, center of north track (Atlantic Coast Line).....	32	48	25.0	79	56	31.0	4,183
Charleston, Citadel Baptist Church.....	32	47	13.9	79	56	04.5	7,529
Charleston, St. Michael's Church.....	32	46	34.2	79	55	51.4	4,168

**Along highways in southwest part of quadrangle. (By E. L. McNair in 1917.)**

Road forks.....	32	47	01.4	79	59	45.8	.....
Road forks.....	32	46	55.0	79	59	09.6	3,164
T road south to James Island.....	32	46	46.9	79	58	24.7	3,917
Charleston, Ashley River, center of draw span of highway bridge.....	32	46	59.2	79	57	44.9	3,621
Charleston, St. Michael's Church tower, U. S. C. & G. S. station.....	32	46	34.18	79	55	51.39	10,013

## CHARLESTON 15' QUADRANGLE—Continued.

Along highways west and southwest through north part of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Center of bridge.....	32	56	57.3	79	45	04.3	.....
Guerin bridge, center of.....	32	57	22.0	79	45	48.2	4,496
Small road bridge.....	32	58	05.5	79	46	09.3	4,743
Cainhoy (Wando post office), about 5 miles northeast of, 15 feet north and 20 feet east of crossroads, road east to Awensdaw and road south to Guerin bridge, among small pine trees; iron post stamped "Prim. Trav. Sta. No. 52, 1917 Mac".....	32	58	39.6	79	46	03.1	3,483
Road forks, 140 feet from creek.....	32	58	23.5	79	46	21.9	2,280
Crossroads, road south leads through gate.....	32	58	00.4	79	47	01.2	4,081
Ford of small creek, 675 feet north of small bridge.....	32	57	06.1	79	48	03.6	7,642
Tuxbury Lumber Co.'s railroad, crossing on.....	32	56	15.6	79	49	10.8	7,669
T road south to Cainhoy, about 0.25 mile.....	32	56	00.9	79	49	51.4	3,768
Second-class crossroads.....	32	56	03.4	79	50	33.8	3,620
Road forks at junction of wagon tracks.....	32	55	17.6	79	52	07.0	9,187
Bridge over creek.....	32	55	18.0	79	52	24.7	1,508
Iron gate in fence.....	32	54	44.3	79	53	33.5	6,776
Crossroads.....	32	54	32.8	79	54	00.1	2,550
Road forks, about 200 feet west of iron gate across road.....	32	54	07.6	79	54	58.0	5,549
Center of road, opposite milestone marked "2 Calais," about 400 feet south of crossroads.....	32	53	30.3	79	55	31.5	4,731
Mary Ann Baptist Church, road corners.....	32	53	15.8	79	55	46.4	1,936
Field triangulation station of U. S. Coast and Geodetic Survey, on left bank of Cooper River, 1.2 meters north of oak tree, on shell heap outside of wood line, 200 meters southwest from negro shanty; reference marks, 10-inch cedar tree, east 36.2 feet, 8-inch oak tree northeast 66.8 feet.....	32	52	38.9	79	56	37.7	5,753

## South along highways near west border of quadrangle.

T road south to James Island.....	32	46	46.9	79	58	24.7	.....
Center of draw span over Wappoo Creek.....	32	45	59.4	79	58	20.6	4,808
Forks of road.....	32	45	45.2	79	58	32.8	1,773
Forks of road.....	32	45	02.6	79	58	21.3	4,422
Fort Johnson triangulation station of the U. S. Coast Survey, on same point as U. S. quarantine station, 2½ miles across bay from Charleston, 400 feet south of quarantine buildings, on top of conical mound about 25 or 30 feet high, which was an old bombproof, on concrete cone about 18 inches high; standard tablet.....	32	45	04.8	79	53	52.9	.....

## Southwest along highways. (By E. L. McNair in 1917.)

Road crossing.....	32	59	49.1	79	45	27.5	.....
Road crossing at Tuxbury Lumber Co.'s camp No. 1.....	32	59	27.2	79	46	06.1	3,958
Prim. Trav. Sta. No. 52, Mac 1917 (previously described).....	32	58	39.6	79	46	03.1	4,817

Magnetic declination for southwest part of quadrangle, 1.5° W.

## North along Cooper River road through middle of quadrangle.

T road south, near Cainhoy.....	32	56	00.9	79	49	57.4	.....
Second-class crossroads.....	32	56	48.3	79	50	32.0	5,908
Forks of road, about 700 feet north of small creek.....	32	57	22.0	79	51	09.9	4,697
Crossroads.....	32	57	45.7	79	51	28.1	2,481
Milestone, marked "10 miles to C".....	32	58	51.5	79	51	06.8	6,899
Milestone, marked "11 miles to C".....	32	59	41.0	79	50	47.6	5,260

Magnetic declination for center of quadrangle, 1.4° W.



## CHICORA QUADRANGLE.

East along highways near south border of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Forks of road, 40 feet south of gate across road.....	33	15	08.4	80	11	47.0	.....
Second-class crossroad.....	33	16	21.4	80	10	42.4	9,200
Crossroads, near cross-graded school.....	33	16	53.5	80	10	12.6	4,111
Cross-graded school, about 0.3 mile east of, 80 feet east and 20 feet south of forks of road, 20 feet south of center of road, 4 feet north of picket fence, at house of I. B. Marshe; iron post stamped "Prim. Trav. Sta. No. 68, 1917 Mac." Azimuth to nail in pine tree 880 feet distant, 259° 23' 40".	33	16	42.6	80	09	24.5	4,223
Angle of 16.5° in road, intersection of two long straight stretches.....	33	16	46.6	80	07	52.9	7,793
Angle of 23° 20' in road, intersection of two long straight stretches, 30 feet east of small gate.....	33	16	19.4	80	07	12.4	4,400
Crossroads.....	33	16	08.3	80	06	30.6	3,720
Second-class road, northeast of mail box.....	33	16	06.7	80	05	57.6	2,807
Forks of road, private road southwest through gate.....	33	16	07.4	80	04	14.4	8,766
Forks of road, at Hog Swamp store and gin.....	33	16	06.9	80	03	32.1	3,597
Center of bridge over creek, about 280 feet S. 25° E. from angle in road.....	33	15	10.7	80	02	22.1	8,221

Magnetic declination for south border of quadrangle, 0.9° W.

From post 68, McNair 1917, west along public road to post 65, McNair 1917, thence northwest to Holly Hill. (By Oscar Jones in 1919.)

Prim. Trav. post 68, McNair 1917 (previously described).....	33	16	42.65	80	09	24.54	.....
Road fork.....	33	16	56.3	80	10	36.6	6,271
White Church, center of road opposite.....	33	16	58.5	80	11	30.2	4,556
Center of bridge.....	33	16	54.0	80	12	07.0	3,153
Lagara, 1 mile east of, on Monks Corner road, south side, 300 feet west of W. G. Groom's mail box, bench-mark post stamped "Elev. 97"	33	16	46.85	80	13	14.92	5,812
T road north.....	33	16	54.7	80	14	04.5	4,286
Road fork southeast.....	33	16	50.9	80	14	25.2	1,800
Schoolhouse, center of road opposite.....	33	16	46.8	80	14	48.4	2,009

From Eutaw Springs east along Monks Corner road to Pinopolis.

T road south at Orangeburg and Berkeley county line.....	33	22	58.0	80	14	29.0	.....
Tie point.....	33	22	57.4	80	14	27.4	149
T road south at church.....	33	22	50.7	80	14	08.5	1,740
Center of bridge.....	33	22	38.5	80	13	26.5	3,768
Crossroad at store.....	33	22	22.5	80	12	52.0	3,343
Road fork.....	33	22	01.7	80	12	19.8	3,449
T road south.....	33	21	45.0	80	11	18.4	5,475
Road fork.....	33	21	35.6	80	10	48.2	2,729
Road fork.....	33	21	07.4	80	09	48.7	5,796
T road south.....	33	20	56.8	80	09	22.4	2,478
Cross post office, 2 miles north of, 200 feet east of W. K. Cross's store, 40 feet east of crossroads on south side and in line with road north; iron post stamped "Prim. Trav. Sta. No. 69 J, 1919"	33	20	39.96	80	08	32.66	4,552
Crossroads.....	33	20	01.9	80	07	59.0	4,792
Road fork.....	33	19	36.5	80	06	42.3	7,001
Angle in road, metal culvert pipe.....	33	19	31.6	80	06	15.2	2,354
Crossroads.....	33	19	19.9	80	06	03.9	1,519
White Church, center of road opposite.....	33	18	56.0	80	05	30.1	3,751
Crossroads at school.....	33	18	42.4	80	05	01.4	2,800
Tie point.....	33	18	41.0	80	04	58.2	310
Road fork to Bonneau, at store.....	33	18	36.2	80	04	54.1	600
Ferguson Swamp, center of bridge, the north one of several in swamp.....	33	18	03.3	80	03	52.9	6,167
Center of small culvert.....	33	17	30.2	80	03	36.2	3,628
Crossroads at church.....	33	17	11.1	80	03	26.8	2,088
Road fork.....	33	16	27.8	80	03	40.6	4,538
T road west at gin and store.....	33	16	06.9	80	03	31.8	2,242
Temporary bench mark 70.6 at road fork, nail in root of pine tree.....	33	15	33.0	80	02	59.8	4,370
Center of bridge.....	33	15	10.7	80	02	22.0	3,925

## CHICORA QUADRANGLE—Continued.

From station 6,290 south along county-line road to post 68, McNair 1917.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Tie point (previously described).....	33	22	57.4	80	14	27.4	
Crossroads.....	33	22	06.9	80	14	25.2	5, 115
Road fork at angle in road.....	33	21	46.4	80	14	20.3	2, 125
Road fork opposite store.....	33	20	57.4	80	14	28.4	4, 999
Road fork on west side of road, in triangle formed by road fork, 500 feet west of St. Paul Church, 5 feet south of J. F. Rogers's mail box; iron post stamped "Prim. Trav. Sta. No. 70, 1919 J".....	33	20	20.86	80	14	51.99	4, 203
Center of bridge.....	33	19	38.2	80	14	49.6	4, 323

Mean magnetic declination for south half of quadrangle, 0° 42' W.

Eutaw Springs east along public road to Pineville across north end of quadrangle.

Rock Creek, center of bridge over, on Orangeburg and Berkeley county line.....	33	24	39.0	80	13	28.3	
Center of bridge.....	33	24	45.0	80	13	02.1	2, 301
Center of bridge.....	33	24	40.0	80	12	09.2	4, 516
Road fork.....	33	24	30.3	80	11	15.9	4, 619
Crossroads.....	33	24	24.1	80	10	41.0	3, 021
Crossroads.....	33	24	33.1	80	10	09.2	2, 850
Greenland Baptist Church, 670 feet east of crossing of Greenland Swamp and River Road, 95 feet south of church, on north side of road; "Prim. Trav. post No. 67 J, 1919".....	33	24	43.22	80	09	05.99	5, 456
Road fork.....	33	24	50.1	80	08	19.8	3, 975
Center of bridge.....	33	25	09.2	80	07	52.6	3, 007
Crossroads.....	33	25	40.0	80	07	10.5	4, 739
Center of bridge crossing old Santee Canal.....	33	25	59.7	80	06	43.5	3, 039
Center of bridge.....	33	26	10.3	80	05	59.6	3, 871
Road fork leading to grave of Gen. Francis Marion.....	33	26	21.0	80	05	12.9	4, 099
Road fork.....	33	26	24.6	80	04	35.4	3, 199
Road fork.....	33	26	32.4	80	03	56.6	3, 382
Road fork.....	33	26	12.9	80	03	05.1	4, 793
Crossroads.....	33	26	06.0	80	02	32.6	2, 837
Pineville, at road fork on south side, 600 feet east of Redeemer church; "Prim. Trav. post No. 68 J, 1919".....	33	25	39.81	80	01	45.66	4, 779
Crossroads.....	33	26	06.7	80	00	54.6	5, 108

Mean magnetic declination, 1° 08' W.

From Pineville southeast through east central part of quadrangle to Bonneau. (By Oscar Jones in 1919.)

Pineville, post 68 (previously described).....	33	25	39.81	80	01	45.66	
Center of creek.....	33	25	06.5	80	01	33.2	3, 528
Crossroads.....	33	24	46.4	80	01	24.7	2, 154
Road fork at right-angle turn in road.....	33	24	46.6	80	00	49.3	2, 999
Road forks at mail box.....	33	24	06.1	80	00	29.1	4, 433
Road fork at graveyard.....	33	23	59.1	80	00	17.6	1, 202

From station 6442 east in southeast corner of quadrangle to Bonneau.

Road fork to Bonneau at store (previously described).....	33	18	41.0	80	04	58.2	
T road south.....	33	18	33.5	80	04	06.2	4, 476
Road fork opposite well.....	33	18	40.3	80	03	40.4	2, 297
Biggin Swamp, center of bridge, western one of several.....	33	18	32.4	80	03	09.6	2, 739
Road fork at gin.....	33	18	46.6	80	01	54.3	6, 552
Crossing of old Santee Canal at Brick Lock.....	33	18	42.4	80	01	38.2	1, 437
T road south at store.....	33	18	45.3	80	01	12.8	2, 178
Center of road, opposite 2-story house on south side of road.....	33	18	46.5	80	00	00.7	6, 126

Magnetic declination for southeast corner of quadrangle, 54' W.

## CLARKS HILL QUADRANGLE.

North along highways near east border of quadrangle. (By B. H. Yoakum in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road forks south, opposite mail boxes 9 and 10.....	33	32	47.4	82	00	11.9	.....
Center of Martinstown road, opposite G. Bunck's mail box, at private T road west.....	33	33	19.3	82	00	22.9	3,362
Center of road, at T road west.....	33	33	50.5	82	00	43.2	3,591
Center of road, in line with T road east to Sweet Water Church...	33	34	03.2	82	00	43.2	1,277
Road fork northwest, near residence on Poverty Hill.....	33	34	11.0	82	00	44.3	798
Center of road, opposite S. J. Carley's store.....	33	34	58.5	82	00	43.4	4,795
Center of road, at T road east.....	33	35	17.1	82	00	46.6	1,901
Center of road, opposite southwest corner of cemetery fence at Hardys Church.....	33	36	00.5	82	01	05.6	4,670
Hardys Church, 0.3 mile north of, 910 feet north of Merryweather Agricultural Hall, about 0.25 mile south of J. Thairmond's store, 30 feet east of Martinstown road, 10 feet south of Currytown road; iron post stamped "Prim. Trav. Sta. No. 7, 1918 Y"	33	36	17.4	82	01	02.1	1,737
Center of Currytown road, at private T road north, opposite Walker Baptist School.....	33	36	18.0	82	00	01.6	5,112
Road fork in angle, 10 feet from each road.....	33	41	40.3	82	00	03.0	.....
Horns Creek, 800 feet west of ford, 35 feet west of center of triangle formed by T road fork, 55 feet west of two mail boxes, marked "No. 52 C. H. Mims" and "No. 53, W. B. Butler," 10 feet north of center of road; iron post stamped "Prim. Trav. Sta. No. 8, 1918 Y".....	33	43	39.6	82	00	25.4	.....

Magnetic declination for east border of quadrangle, 0.7° E.

## Along highways near north border of quadrangle.

Henry Smith's residence, 800 feet south of, road forks.....	33	44	13.1	82	01	01.3	.....
Rock chimney on top of bare knoll, north side of road.....	33	44	43.1	82	01	38.2	4,365
T road south at Charles Prescott's mail box.....	33	44	52.2	82	05	34.4	.....
Crossroads.....	33	44	32.1	82	06	34.0	5,428
W. T. Lamb's residence, 490 feet west of, road fork south.....	33	44	02.2	82	07	40.6	6,382
Gundy Creek, 0.25 mile northwest of wagon bridge over, 500 feet east of old frame house on south side of road, 15 feet north of Scott's Ferry road, in angle between road forks; iron post stamped "Prim. Trav. Sta. No. 21, 1918 Y".....	33	44	26.8	82	08	36.4	5,331
W. M. Agner's residence, opposite gate at, center of Scott's Ferry road.....	33	43	51.9	82	09	32.1	5,885
T road fork at three mail boxes.....	33	43	38.0	82	10	16.6	4,010
Stevens Creek, 0.5 mile west of, T road north.....	33	43	45.7	82	11	20.7	5,476

## Along Charleston &amp; Western Carolina Ry. south near middle of quadrangle from Modoc to Meriwether.

Modoc, 0.25 mile south of station at, road crossing.....	33	43	49.8	82	12	23.4	5,316
Modoc, 1 mile south of, private-road crossing.....	33	42	59.5	82	12	13.7	5,138
Public-road crossing.....	33	42	14.1	82	11	59.0	4,757
Road crossing, 0.27 mile south of milepost 25.....	33	41	04.2	82	11	07.9	8,276
Clarks Hill station, 380 feet northwest of, road crossing.....	33	40	20.1	82	10	30.1	5,479
Public-road crossing, 710 feet north of milepost 22.....	33	39	21.5	82	09	46.4	6,981

## Along highways through center of quadrangle east from Meriwether.

Meriwether, 1 mile southeast of, center of triangle formed by road forks.....	33	38	25.6	82	09	13.4	6,302
Bethany Church, 0.42 mile east of, road forks.....	33	37	58.4	82	08	29.8	4,598
Old Woodlawn post office, at residence of M. E. McKie, 20 feet east of main wagon road, 35 feet north of second-class road east known as "Mark Rock Trail;" iron post stamped "Prim. Trav. Sta. No. 22, 1918 Y".....	33	37	24.8	82	07	48.1	4,901
Hopewell Church (new building), center of road opposite.....	33	36	34.8	82	07	28.5	5,367
Road forks in swamp.....	33	36	10.4	82	06	28.8	5,623
T road north, at J. W. Hudson's mail box.....	33	36	35.5	82	04	56.4	8,065
T road south.....	33	36	15.8	82	04	04.1	4,850
Morgana post office, 650 feet north of, road forks.....	33	36	35.1	82	03	10.0	4,975
Morgana post office, 0.65 mile east of, private-road fork.....	33	36	43.0	82	02	39.6	2,691
Stevens Creek ferry, 0.2 mile east of, T road southwest.....	33	36	51.2	82	01	36.5	5,400
Prim. Trav. Sta. No. 7, 1918 Y (previously described).....	33	36	17.4	82	01	02.1	4,500

## CLARKS HILL QUADRANGLE—Continued.

Along Charleston &amp; Western Carolina Ry. from Meriwether, S. C., to Evans, Ga.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Meriwether station, south side of, road crossing main track.....	33	38	48.5	82	09	52.5	Feet.
Private-road crossing.....	33	38	01.0	82	09	56.6	4,817
Road crossing, at siding.....	33	37	12.7	82	09	56.7	4,870
Milepost 18, center of track opposite.....	33	36	17.7	82	09	04.5	7,102
Savannah River, South Carolina end of railroad bridge over.....	33	35	31.2	82	08	05.4	6,855

## Along highways near north border of quadrangle.

Kilkrase Ferry, east landing of, center of road.....	33	43	39.6	82	14	17.4	.....
Kilkrase Ferry, 1 mile east of, T road north.....	33	44	06.2	82	13	24.8	5,190

Magnetic declination along north border of quadrangle, 0° 42' E.; through center, 0° 48' E.; along south border, 0° 49' E.; along west border, 1° 16' E.

## CONWAY QUADRANGLE.

Southeast along highways near center of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Aynor, at Peedee Hotel, center of street.....	33	59	58.5	79	11	58.5	Feet.
Center of bridge.....	33	59	50.9	79	11	10.6	4,107
Crossroad.....	33	59	45.7	79	10	37.0	2,880
Road fork.....	33	59	38.9	79	09	54.2	3,670
Road fork.....	33	58	47.7	79	08	46.0	7,729
Cool Spring, about 600 feet southeast of depot, road fork.....	33	58	20.2	79	08	09.2	4,168
Road fork.....	33	57	50.0	79	07	56.9	3,223
Center of road, opposite church.....	33	57	12.6	79	07	31.3	4,356
Center of culvert.....	33	56	52.9	79	07	01.6	3,200
Road fork.....	33	56	41.0	79	06	34.1	2,610
Cook siding on Atlantic Coast Line R. R., southeast of road to, southwest corner of road fork, 2 feet west of telephone pole; iron post stamped "Prim. Trav. Sta. No. 10, 1918 J".....	33	56	23.9	79	05	43.7	4,585
Road fork.....	33	55	59.8	79	05	00.2	4,404
Road fork.....	33	54	12.6	79	03	57.0	12,059
Homewood, flowing well.....	33	53	03.7	79	02	54.1	8,755
Center of bridge.....	33	52	33.5	79	02	55.7	3,059
T road west at schoolhouse.....	33	51	58.9	79	03	11.0	3,733
Center of bridge.....	33	51	30.5	79	03	20.8	2,984
Crossroads.....	33	51	07.0	79	03	27.5	2,446
Conway, in northwest corner of courthouse yard, 3 feet from fence; iron post stamped "Prim. Trav. Sta. No. 11, 1918 J".....	33	50	04.9	79	02	45.7	7,197
Railroad crossing.....	33	49	39.1	79	03	30.1	4,562
Road fork.....	33	48	50.6	79	04	18.5	6,380
Road fork.....	33	48	29.2	79	04	39.9	2,820
Crossroads.....	33	48	06.8	79	04	30.0	2,418
Road fork.....	33	47	32.4	79	04	24.2	3,509
Center of road, opposite church.....	33	46	39.5	79	04	21.4	5,354
Road fork.....	33	46	14.0	79	04	19.2	2,586
Toddville School, 150 feet northwest of, in southwest corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 12 J, 1918".....	33	45	30.2	79	04	32.7	4,571
Crossroads, 200 feet south of bridge.....	33	45	06.6	79	04	56.7	3,129

Magnetic declination for center of quadrangle, 2° 06' E.

## South along highways near east border of quadrangle.

Conway, Prim. Trav. Sta. No. 11 (previously described).....	33	50	04.9	79	02	45.7	.....
Road fork.....	33	50	11.4	79	02	29.1	1,548
West end of bridge.....	33	49	48.9	79	01	34.6	5,128
Road fork.....	33	49	13.9	79	01	10.5	4,080
Center of bridge.....	33	47	43.7	79	01	06.8	8,126
Center of bridge.....	33	47	23.0	79	01	09.1	2,103
Road fork near church.....	33	46	32.5	79	01	15.5	5,139
Center of bridge.....	33	46	00.8	79	01	12.7	3,208
Center of bridge.....	33	45	42.4	79	01	13.2	1,864
Road fork.....	33	45	18.4	79	01	14.1	2,423

Magnetic declination near east border of quadrangle, 2° 01' W.

## CONWAY QUADRANGLE—Continued.

## Northwest along highways.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Center of road, opposite flowing well, at church.....	33	45	27.2	79	11	12.7	.....
Crossroads, at house.....	33	45	54.0	79	11	17.5	2,736
Road fork.....	33	46	15.5	79	11	20.0	2,182
Center of creek.....	33	46	34.4	79	11	26.6	1,992
Crossroads.....	33	47	01.4	79	11	50.0	3,368
North end of long bridge.....	33	47	26.9	79	12	14.8	3,320
Road fork.....	33	48	17.5	79	12	10.6	5,129
Road fork.....	33	48	39.5	79	12	11.5	2,220
Crossroads, at church.....	33	49	22.0	79	12	42.2	5,015
Road fork.....	33	49	57.0	79	13	06.7	4,100
Crossroads, Conway and Potato Bin Ferry roads.....	33	50	18.7	79	13	22.1	2,545
Road fork.....	33	50	43.2	79	13	30.8	2,580
Center of bridge, north one of two.....	33	51	45.4	79	13	50.1	6,498
Road fork.....	33	52	38.0	79	14	02.7	5,417
Road fork.....	33	53	01.9	79	14	05.5	2,426
Jordanville, 0.5 mile south of, 150 feet northwest of church, in southwest corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 14 J, 1918".....	33	53	32.6	79	14	13.4	3,169
Road fork.....	33	53	32.7	79	13	41.3	2,700
Center of road, in front of schoolhouse.....	33	53	14.9	79	12	55.3	4,277
Road fork.....	33	53	14.8	79	12	09.0	3,900
Road fork.....	33	53	07.9	79	11	15.7	4,550
Road fork.....	33	53	00.9	79	10	39.7	3,120
Center of bridge, 100 feet west of road fork.....	33	52	48.1	79	10	30.1	1,521
Crossroads.....	33	52	44.3	79	10	00.6	2,520
Center of road, opposite house.....	33	52	41.8	79	09	26.8	2,853
Small culvert.....	33	52	25.4	79	08	52.7	3,323
Road fork.....	33	52	15.6	79	08	09.6	3,768
Center of bridge.....	33	52	15.4	79	07	09.2	5,090
Crossroads.....	33	52	22.8	79	06	17.3	4,444
Crossroads, Conway, Galavants Ferry, and Jordanville.....	33	51	39.2	79	05	30.8	5,902
Center of bridge.....	33	51	20.4	79	04	56.0	3,499
Center of bridge.....	33	50	55.8	79	04	10.8	4,550
Road fork.....	33	50	40.8	79	03	42.8	2,810
Railroad crossing, 200 feet west of hospital.....	33	50	26.7	79	03	14.5	2,778
Conway, Prim. Trav. Sta. No. 11 (previously described).....	33	50	04.9	79	02	45.7	3,279

Magnetic declination in northwest part of quadrangle, 2° 05' W.

## North along highways near west border of quadrangle.

Prim. Trav. Sta. No. 4 (previously described).....	33	53	32.6	79	14	13.4	.....
Road fork.....	33	54	43.4	79	14	19.6	7,180
Road fork, 300 feet north of bridge.....	33	55	37.4	79	14	33.7	5,585
Crossroads, at cattle dip.....	33	56	46.1	79	14	26.5	6,933
Crossroads.....	33	57	25.5	79	14	28.2	3,982
Road fork, at house.....	33	58	03.1	79	14	21.4	3,847
Center of bridge.....	33	58	22.0	79	14	25.7	1,954
Road fork, at tobacco barn.....	33	58	52.7	79	14	58.9	4,172

Magnetic declination along west border of quadrangle, 1° 58' W.

## Northeast along the Aynor &amp; Myrtle Beach branch railroad. (By Oscar Jones in 1918.)

Road fork.....	33	49	13.9	79	01	10.5	.....
Center of road, opposite house on east side of road.....	33	49	23.8	79	00	45.1	2,363
Crossroads at graveyard.....	33	49	25.4	79	00	06.1	3,293

## Along highways in east part of quadrangle.

Road fork.....	33	50	11.4	79	02	29.1	.....
Road fork, at northeast corner of field.....	33	50	40.5	79	01	33.3	5,549
Center of road, opposite tobacco barn, on south side of road.....	33	50	58.7	79	00	53.8	3,808
Road fork.....	33	51	03.0	79	00	32.9	1,816
Road fork.....	33	51	15.0	79	00	13.5	2,037

## CONWAY QUADRANGLE—Continued.

Along highways in northeast part of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Station 539, junction point.....	33	58	20.6	79	08	09.5	Feet.....
Center of road, opposite house.....	33	58	21.9	79	07	19.3	4, 228
Crossroads, at two mail boxes.....	33	58	18.8	79	06	34.8	3, 760
Road fork, 200 feet north of small creek crossing.....	33	58	26.2	79	06	24.0	1, 186
Crossroads.....	33	58	32.3	79	05	50.8	2, 861
Creek crossing.....	33	58	48.6	79	05	22.1	2, 926
Road fork.....	33	59	09.4	79	04	40.9	4, 057
Crossroads at store, Conway 11.5 miles.....	33	59	36.4	79	03	23.3	7, 081
Center of bridge.....	33	59	41.6	79	02	35.2	4, 078
Center of bridge.....	33	59	15.1	79	01	21.3	.....
Road fork.....	33	58	25.0	79	01	03.2	5, 288
Road fork.....	33	58	07.2	79	01	09.1	1, 899
Center of bridge.....	33	57	15.1	79	01	25.6	5, 444
Crossroads.....	33	56	57.5	79	01	34.2	1, 922
Road fork.....	33	56	18.8	79	01	58.6	4, 414
Crossroads, Adrian Road.....	33	55	34.1	79	02	15.8	4, 749
Forks of road to sawmill.....	33	55	15.1	79	02	25.3	2, 080
Forks of road.....	33	54	48.4	79	02	36.8	2, 869
Forks of road.....	33	54	18.6	79	02	49.8	3, 201
Crossroads.....	33	53	52.7	79	02	50.0	2, 615
Homewood, hub station 586=station 1993, junction point.....	33	53	05.4	79	02	54.6	4, 797

Magnetic declination in northeast part of quadrangle, 2° W.

## COTTAGEVILLE QUADRANGLE.

Northeast along railroad near south border of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Milepost Sav. 74.....	32	45	02.0	80	31	06.8	Feet.....
Switch stand, at turnout to sawmill.....	32	45	20.7	80	29	55.1	6, 410
Milepost Sav. 76.....	32	45	33.2	80	29	07.3	4, 270
Switch stand at end of siding.....	32	45	44.7	80	28	15.2	4, 602
Jacksonboro station, 175 feet east of, 25 feet north and 100 feet west of public-road crossing, 15 feet east of water-oak tree; iron post stamped "Prim. Trav. Sta. No. 7, 1917 Mac." Azimuth to semaphore stand, west of river, on south side of track, 2,025 feet east, 272° 30' 00"; azimuth of tangent east, 271° 29'.....	32	45	44.8	80	27	21.7	4, 562
Edisto River, center pier of draw span.....	32	45	43.9	80	26	51.6	2, 574
Road crossing, 0.25 mile west of Ponpon station.....	32	45	43.2	80	26	19.8	2, 715
Ponpon siding, switch stand east end.....	32	45	42.5	80	25	50.0	2, 540
Milepost Char. 35.....	32	45	40.4	80	25	01.5	4, 152
Parkers Ferry flag station, road crossing at.....	32	45	32.8	80	23	46.6	6, 445
Second-class road crossing.....	32	45	26.9	80	22	56.9	4, 280
Adams Run station, road crossing at.....	32	45	18.1	80	20	46.4	.....
Road crossing.....	32	45	19.5	80	19	20.6	8, 940
Milepost Chn. 28.....	32	45	29.4	80	17	50.4	7, 331
Road crossing.....	32	45	38.7	80	16	25.7	7, 759

South along highways near west border of quadrangle. (By E. L. McNair in 1917.)

T road west.....	32	59	45.5	80	29	24.8	.....
Second-class cross roads.....	32	59	10.2	80	29	35.9	3, 692
Forks of road.....	32	58	36.4	80	29	29.6	3, 450
T road south.....	32	58	02.8	80	28	55.0	4, 503
Forks of road.....	32	57	43.1	80	28	51.3	2, 012
Second-class road southeast.....	32	57	22.4	80	29	09.0	2, 580
Road forks.....	32	56	57.0	80	29	29.2	3, 091
T road north, about 1 mile northwest of Cottageville.....	32	56	36.2	80	29	38.4	2, 241
Cottageville, southwest corner of public-school building; iron post stamped "Prim. Trav. Sta. No. 41, 1917 Mac." Azimuth to nail in root of oak tree, 15 feet from Dr. Vonlehe's office and 5 feet from picket fence, 14° 06'.....	32	56	15.0	80	28	51.5	4, 536
Prominent road fork.....	32	55	42.5	80	29	50.6	6, 005
T road N. 60° E.....	32	54	25.9	80	29	50.4	.....
Lane east.....	32	53	43.7	80	29	37.0	4, 418
Crossroads near store, Inns crossroads.....	32	52	21.9	80	29	19.7	8, 397

## COTTAGEVILLE QUADRANGLE—Continued.

South along highways near west border of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
T road east.....	32	51	34.6	80	29	24.1	4,799
T road west.....	32	51	07.6	80	29	26.4	2,730
Center of bridge over slough in marsh.....	32	50	22.4	80	29	29.7	4,580
T road west at angle in road.....	32	48	46.6	80	29	34.5	9,640
Cross roads.....	32	48	28.8	80	29	28.9	1,862
Road forks.....	32	47	42.4	80	29	15.5	4,828
Road forks.....	32	47	01.6	80	28	17.8	6,424
Road forks.....	32	46	28.5	80	27	31.0	5,210
Jacksonboro, 1 mile north of, T road corners.....	32	46	12.0	80	27	16.3	2,063
Jacksonboro, iron post No. 7 (previously described).....	32	45	44.8	80	27	21.7	2,790

Mean magnetic declination near southwest corner of quadrangle, 0° 10' E.

Near west border of quadrangle. (By E. L. McNair in 1917.)

Small creek, bridge over.....	32	52	46.2	80	29	55.2	.....
Cross roads at James store.....	32	52	21.9	80	29	19.7	3,896

Along highways. (By E. L. McNair in 1917.)

Cottageville, Prim. Trav. Sta. No. 41 (described above).....	32	56	15.0	80	28	51.5	.....
T road south.....	32	55	56.5	80	28	12.2	3,842
T road south.....	32	55	34.5	80	26	56.5	6,820
Forks of road, road south to Parkers Ferry.....	32	55	07.2	80	25	40.2	7,068
Crossroads.....	32	54	57.6	80	24	44.1	4,576
Sullivans Ferry and Cable Austin block, west side of Edisto River.....	32	54	43.2	80	24	25.1	2,180
Parkers Ferry station, 10.5 miles north of, 1.25 miles east of Sullivans Ferry on Edisto River, 60 feet north of a second-class crossroad, road west leading to Sullivans Ferry, 15 feet west of main north and south road; iron post stamped "Prim. Trav. Sta. No. 44, 1917 Mac".....	32	54	22.8	80	23	06.7	6,992
Forks of road, about 800 feet south of church.....	32	53	39.8	80	23	07.8	4,348
Forks of road.....	32	52	58.7	80	23	06.9	4,154
Forks of road.....	32	52	23.6	80	23	08.4	3,556
T road east.....	32	51	54.5	80	23	10.1	2,944
Crossroad.....	32	51	25.3	80	23	10.6	2,951
Small creek, bridge over, 2,000 feet north of cemetery.....	32	50	39.8	80	23	18.5	4,653
Small creek, bridge over.....	32	49	54.6	80	23	38.4	4,870
Forks of road.....	32	49	10.4	80	23	57.8	4,769
T road west to old ferry.....	32	48	47.2	80	24	08.0	2,502
Forks of road.....	32	47	56.1	80	24	02.2	5,192
T road west.....	32	47	25.6	80	23	58.9	3,090
Small creek, bridge over.....	32	46	19.9	80	23	51.8	6,670
T road west.....	32	46	02.8	80	23	49.9	1,735
Public-road crossing at Parkers Ferry flag station, Atlantic Coast Line Ry.....	32	45	32.3	80	23	46.6	3,102
Parkers Ferry flag station, 55 feet south of road crossing, 15 feet east of center of road, 1 foot north of corner fence post; iron post stamped "Prim. Trav. Sta. No. 45, 1917 Mac".....	32	45	31.8	80	23	46.8	.....

Northeast along highways.

Cottageville, Prim. Trav. Sta. No. 41 (previously described)...	32	56	15.0	80	28	51.5	.....
Crossroads at store.....	32	56	34.5	80	28	28.0	2,816
Angle in road, in front of house to east.....	32	56	47.6	80	27	37.1	4,536
Forks of road.....	32	57	06.2	80	27	34.9	1,883
Crossroads at Ackerman's store.....	32	57	34.0	80	27	10.4	3,504
Forks of road.....	32	57	49.4	80	26	47.9	2,476
Angle of about 26° in road, 0.75 mile straight, S. 65° W.....	32	58	12.5	80	25	49.9	5,463
Second-class crossroad.....	32	58	43.7	80	25	33.6	3,444
Forks of road.....	32	58	56.8	80	25	34.8	1,337
Log-road crossing.....	32	59	22.8	80	25	10.6	3,335
Forks of road.....	32	59	31.1	80	18	32.8	.....
Forks of road.....	32	58	32.7	80	18	28.2	5,916
Summerville, about 9 miles west of, at Coachmans Corners, 50 feet west of forks of road, in angle between roads; iron post stamped "Prim. Trav. Sta. No. 56, 1917 Mac".....	32	58	08.5	80	18	23.2	2,489

## COTTAGEVILLE QUADRANGLE—Continued.

North and northeast along highways.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Sullivans Ferry, Prim. Trav. Sta. No. 44 (previously described)	32 54 22.8	80 23 06.7	.....
Forks of road.....	32 54 57.9	80 23 15.4	3,631
Center of road, 5 feet east of, 18 feet west of stump blazed and marked "U. S.," nail in root of 6-inch oak tree.....	32 55 17.4	80 23 20.1	2,004
Crossing of bed of abandoned tram road.....	32 55 35.5	80 23 28.6	1,977
Crossroad.....	32 56 20.0	80 23 39.4	4,590
On west wagon track, in root of pine tree, 4 feet east of pine tree blazed and marked "U. S.," nail.....	32 56 35.6	80 23 45.8	1,665
Forks of road.....	32 57 30.8	80 23 50.6	5,603
Forks of road.....	32 57 58.2	80 23 48.5	2,766
Forks of road.....	32 58 16.7	80 23 22.3	2,912
Forks of road at small bridge.....	32 58 16.9	80 22 49.1	2,828
T road north.....	32 58 17.2	80 22 13.1	3,069
Forks of road.....	32 58 17.6	80 21 33.0	3,414
Small road bridge.....	32 58 18.9	80 20 30.4	5,330
Angle of 12.75° in road, center line both ways.....	32 58 21.0	80 19 20.1	5,994
Coachmans Corners, iron post No. 56 (previously described).....	32 58 08.5	80 18 23.2	5,013
Forks of road, about 75 feet east of negro church.....	32 57 57.2	80 17 18.3	5,790
Angle in road, center line both ways.....	32 57 53.1	80 16 09.6	5,850
Ashley River bridge, center of.....	32 58 05.3	80 15 06.9	5,481

Magnetic declination for northeast part of quadrangle, 0.2° E.; for north part of quadrangle, 0.2° W.

Northwest along highways. (By E. L. McNair in 1917.)

Crossroads.....	32 50 24.3	80 15 36.2	.....
Angle in road, center line both ways.....	32 50 36.3	80 16 34.3	5,100
Delamar crossroads.....	32 50 46.4	80 17 04.6	2,780

West along highways near east border of quadrangle.

Crossroads.....	32 47 00.6	80 15 26.4	.....
Angle of 35° between two stretches of road.....	32 48 00.6	80 16 12.1	3,213
Angle in road, in line both ways.....	32 48 33.8	80 16 11.4	7,346
Warren crossroads, 100 feet south of store.....	32 49 13.4	80 16 24.0	4,150
Forks of road, 300 feet south of old church.....	32 49 57.7	80 16 43.2	4,764
Dorham Crossroads, on line between Dorchester and Charleston counties.....	32 50 46.4	80 17 04.6	5,257
Delamar Crossroads, 15 feet west of intersection, 175 feet west of Mr. Carroll's house, road east of north goes to Summerville, road north goes to Ridgeville, near fence corner; iron post stamped "Prim. Trav. Sta. No. 46, 1917 Mac.".....	32 51 17.4	80 17 21.3	3,433
Forks of road.....	32 51 56.4	80 16 59.3	4,371
Second-class road west, near fence line.....	32 52 14.6	80 16 26.2	3,368
T road southeast.....	32 52 52.2	80 16 01.9	4,319
Forks of road, dim road southeast.....	32 53 47.8	80 15 43.1	5,850

Magnetic declination along east border of quadrangle, 0.8° W.

## CUMMINGS QUADRANGLE.

Along highways near east border of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Definite angle in road.....	32 45 34.7	80 45 23.9	.....
T road N. 35° E.....	32 46 25.6	80 46 21.7	7,133
Forks of road.....	32 47 19.4	80 45 28.1	7,108
Road forks.....	32 51 01.2	80 45 21.0	.....
Walterboro, 7 miles west of, near Thompson's sawmill, 1 foot west of southwest corner of picket fence around residence of Frank Thompson; iron post stamped "Prim. Trav. Sta. No. 39, 1917 Mac".....	32 51 22.7	80 45 34.8	2,470
Road forks.....	32 51 45.0	80 45 14.6	2,838



## CUMMINGS QUADRANGLE—Continued.

Northwest along Charleston &amp; Western Carolina Ry.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Private-road crossing.....	32	45	30.6	80	56	54.8	-----
Fechtig flag station, 840 feet northwest of, road crossing.....	32	46	14.8	80	57	58.2	7,010
Road crossing.....	32	46	28.2	80	58	17.5	2,140
Milepost 77.....	32	46	59.6	80	59	02.5	4,980
Cummings station, 28 feet east of road crossing just northwest of station, 23 feet from center of track, 25 feet S. 25° W. from corner of store, in line with telegraph poles, azimuth to milepost 76, 2,760 feet distant, 28° 46' 45"; iron post stamped "Prim. Trav. Sta. No. 74, 1917 Mac".....	32	47	15.5	80	59	24.9	2,497

No observations for magnetic declination.

South along highways near west border of quadrangle. (By H. S. Senseney in 1917-18.)

T road east to house.....	32	56	44.7	80	59	53.2	-----
Bend in road, blazed pine tree west.....	32	56	13.3	80	59	25.8	3,933
T road southwest, in line with road south to Tobys Bluff.....	32	55	39.8	80	58	25.8	6,141
Road forks.....	32	54	57.2	80	59	07.4	5,571
Tobys Bluff, north end of most northern of several bridges.....	32	54	38.2	80	59	23.6	2,369
Railroad crossing.....	32	53	19.3	80	59	50.1	-----
Varnville, 4.5 miles northeast of, 750 feet south of logging railroad, 20 feet north and 45 feet west of road forks; iron post stamped "Prim. Trav. Sta. No. 2 S, 1917." Azimuth to nail in root of oak tree, 520 feet distant (stadia), on north side of road, 90° 03' 45".....	32	53	13.0	80	59	45.2	758
Road forks, at mail box 21.....	32	52	53.5	80	59	04.5	3,993
Second-class road crossing, at nine mail boxes.....	32	51	54.8	80	58	00.0	8,084
T road to house, at mail box 28.....	32	51	38.3	80	57	36.7	2,600
Gate through which road passes.....	32	51	04.0	80	56	47.4	5,447
T road southwest.....	32	50	08.0	80	55	38.6	8,161
Road fork, at gate near schoolhouse.....	32	49	31.6	80	57	13.3	8,882
T road south.....	32	49	31.2	80	57	56.6	3,696
T road north, at mail box 91.....	32	49	27.6	80	58	04.8	789
T road south, at mail box 51.....	32	49	14.5	80	58	27.4	2,334
Road forks, at gate and mail box 40.....	32	48	40.0	80	59	27.2	6,181

East along highways through center of quadrangle.

T road southwest, in line with road south to Tobys Bluff.....	32	55	39.8	80	58	25.7	-----
Road fork, 900 feet southeast of another road fork.....	32	55	24.6	80	57	59.7	2,700
Road forks.....	32	55	07.1	80	57	33.2	2,870
Road forks.....	32	54	47.7	80	57	07.4	2,946
Road forks.....	32	54	30.9	80	56	37.0	3,098
Islandton, T road north, east of schoolhouse.....	32	54	31.1	80	56	06.6	2,595
T road south.....	32	54	31.4	80	55	24.0	3,630
Crossroads.....	32	54	18.7	80	54	29.1	4,860
Deep Creek Church, T road south at.....	32	53	54.8	80	53	52.0	3,985
T road north.....	32	53	37.8	80	53	14.1	3,663
Colleton Cypress Lumber Co.'s logging camp, 245 feet east of store, 15 feet north of road; iron post stamped "Prim. Trav. Sta. No. 1 S, 1918." Azimuth to southeast corner of chimney of store, 94° 10' 20".....	32	53	19.3	80	52	43.2	3,225
Lane north to house.....	32	53	15.0	80	51	40.6	5,360
Crossroads.....	32	53	19.2	80	51	09.6	2,680
Center of road, in line with T road south.....	32	53	23.4	80	50	13.3	4,826
Road forks, blazed pine tree south.....	32	53	22.5	80	49	48.9	2,079
Crossroads at sawmill.....	32	53	24.0	80	49	20.7	2,415
T road south.....	32	53	20.0	80	48	31.7	4,195
Road forks, east of mail box 35.....	32	52	44.2	80	47	38.8	5,793
Lane south, at mail box 36.....	32	52	40.4	80	47	14.2	2,129
T road north, at mail box 41.....	32	52	38.0	80	46	54.4	1,709
Road forks.....	32	52	23.9	80	45	49.6	5,713
Lane east, at mail box 43.....	32	52	00.1	80	45	51.4	2,417
T road east.....	32	51	35.0	80	45	42.8	2,634
Thompson's sawmill, near "Prim. Trav. Sta. No. 39, 1917 Mac." (previously described).....	32	51	22.7	80	45	34.8	1,418
Cummings, Prim. Trav. Sta. No. 74 (previously described).....	32	47	15.5	80	59	24.9	-----
Road forks, at mail box 41.....	32	47	00.1	80	59	29.8	1,610
Road forks.....	32	46	41.0	80	59	50.3	2,607

Magnetic declination for west border of quadrangle, 0.1° E.; through center of quadrangle, 0.2° W.

## CUMMINGS QUADRANGLE—Continued.

West along highways near north border of quadrangle. (By H. S. Senseney in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Second-class road south, at mail box 14, blazed pine tree north..	32 59 24.8	80 50 12.1	.....
T road north.....	32 59 03.3	80 50 37.8	3,087
Bells crossroads.....	32 58 43.8	80 51 02.8	2,906
Road forks, east of church.....	32 59 03.2	80 51 36.1	3,440
Railroad crossing.....	32 59 31.0	80 52 40.8	6,192
Crossroads.....	32 59 36.6	80 53 02.2	1,905
Road forks.....	32 59 54.9	80 53 51.4	4,586
Crossroads.....	32 59 50.7	80 54 22.9	2,717
East end of bridge.....	32 59 44.3	80 54 58.5	3,095
Road forks.....	32 59 27.5	80 55 33.2	3,414
Railroad crossing.....	32 59 30.7	80 56 01.4	2,426
Crossroads.....	32 59 37.9	80 56 21.9	1,890
Road forks.....	32 59 47.1	80 57 12.9	4,443
Center of triangle made by road forks, at abandoned house.....	32 59 50.8	80 57 17.8	564
Crossroads.....	32 59 41.2	80 57 52.2	3,064
T road south at Nat. Williams's mail box.....	32 59 30.8	80 58 21.1	2,679
Center of road in line with T road south.....	32 59 25.0	80 58 41.4	1,830
Railroad crossing at milepost 11, main line.....	32 59 23.5	80 59 36.4	4,683

No magnetic declination.

Southeast along Atlantic Coast Line R. R. (By E. L. McNair in 1917-18.)

Intersection of long tangents.....	32 59 52.9	80 48 29.8	.....
Road crossing.....	32 59 27.8	80 47 31.6	5,565
Road crossing.....	32 59 09.9	80 46 52.2	3,813
Road crossing, at milepost 21.....	32 58 58.1	80 46 28.1	2,375
Road crossing.....	32 58 40.4	80 45 52.1	3,555
Intersection of long tangents, 730 feet west along track to road crossing, 555 feet east along track to road crossing.....	32 58 24.9	80 45 20.5	3,110

## EDGEFIELD QUADRANGLE.

East along highways near south edge of quadrangle. (By B. H. Yoakum in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Edgefield, 2.5 miles south of, 0.5 mile southwest of junction of stage road and plank road, at old frame tenement house, on roof of 2.5-foot pine tree; copper nail and washer.....	33 45 49.1	81 55 00.8	.....
Edgefield, about 3 miles southeast of, 300 feet S. 45° W. from road crossing on Southern Ry. at Parkhill station, 35 feet east of plank road, in triangle formed by road forks; iron post stamped "Prim. Trav. Sta. No. 9, 1918 Y".....	33 45 46.1	81 53 47.8	6,175
Private lane south, at post marked "4 miles to Edgefield".....	33 45 03.2	81 52 53.2	6,324

Magnetic declination near south edge of quadrangle, 0.40° E.

West along north border of quadrangle. (By E. L. McNair in 1919.)

Center of bridge over Red Bank Creek.....	33 59 33.2	81 49 37.5	.....
Crossroads.....	33 59 10.2	81 49 52.2	2,643
Forks of road, three directions.....	33 58 54.5	81 50 23.7	3,086
Saluda, 5 miles west of, at location of former post office named Limp, 150 feet west of John Davis's residence, 20 feet east of center of north and south road from Edgefield to Newberry, 4 feet southeast of telephone pole; iron post stamped "Prim. Trav. Sta. No. 5, 1919 Mac." Azimuth to cupola on Plum Branch School, 145° 33' 15".....	33 59 15.4	81 51 08.3	4,308
Forks of road, 25 feet southeast of small bridge.....	33 59 16.5	81 51 32.2	2,017
Forks of road.....	33 59 15.4	81 52 11.0	3,270
Crossroads.....	33 59 00.4	81 52 45.5	3,278
Forks of road.....	33 58 53.6	81 53 09.3	2,118
Forks of road.....	33 58 51.6	81 53 12.8	361
Second-class crossroad.....	33 59 17.6	81 54 06.8	5,250
Creek crossing.....	33 59 29.2	81 54 33.2	2,511
Small creek crossing, no bridge.....	33 59 58.9	81 55 13.5	4,533
Crossroads, mail box is 12 feet S. 40° W.....	33 59 50.1	81 55 52.1	3,369
Crossroad.....	33 59 33.5	81 56 29.0	3,526
T road corner, about 200 feet southeast of blacksmith shop.....	33 59 37.8	81 56 40.2	1,043
Center of bridge over Sleepy Creek.....	33 59 01.6	81 57 17.1	4,801

## EDGEFIELD QUADRANGLE—Continued.

## West along north border of triangle—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Celestia School, 0.5 mile southeast of, at T road westerly, 150 feet east of Ed. Faulkner's house, 15 feet northwest of center of road; iron post stamped "Prim. Trav. Sta. No. 6, 1919 Mac." Azimuth to left-hand edge of chimney in center of house of J. B. Chandler, 304° 43' 35".	33 59 02.1	81 58 12.4	4,662
Creek crossing, no bridge.	33 58 50.9	81 58 28.4	1,757
Crossroad.	33 58 37.3	81 59 21.1	4,647

## South through southwest quarter of quadrangle.

Crossroad.	33 52 35.6	81 59 52.6	.....
Pleasant Lane, 2.25 miles south of, on road to Edgefield, 50 feet south of public crossroad, 15 feet south of center of road; iron post stamped "Prim. Trav. Sta. No. 8, 1919 Mac." Azimuth to nail, 7 feet above ground inside of third telephone pole south of post, 338° 51' 55".	33 52 18.7	81 59 44.5	1,847
Center of bridge over Log Creek.	33 51 49.1	81 59 11.8	4,066
T road west.	33 51 30.6	81 59 00.6	2,087
Road westerly, at south edge of, at yard fence 195 feet south of Nicholson's mail box.	33 50 52.0	81 58 43.6	4,152
Forks of road, road west to Abbeville, road northwest to Greenwood, road southeast to Edgefield.	33 49 40.3	81 57 51.3	8,487
Forks of road.	33 49 23.0	81 57 16.5	3,417
T road southwest.	33 48 53.6	81 56 33.7	4,679
T road corners.	33 48 41.0	81 55 47.7	4,081
Forks of road at top of hill.	33 47 53.4	81 55 50.3	4,813
Edgefield, cross in top of granite stone, stone marked "XIII Lofton," on side.	33 47 23.4	81 55 47.8	3,034

## South through northeast corner of quadrangle along railroad track.

Crossroad at Saluda, 500 feet west of St. Paul's M. E. Church.	34 00 14.1	81 46 11.1	.....
Center of main track, at road crossing, 95 feet southeast of Saluda station.	33 59 51.0	81 46 13.3	2,332
Public-road crossing.	33 59 39.6	81 45 54.2	1,974
Center of track, at center of crossing of Little Saluda River.	33 59 24.1	81 45 51.9	1,577
Road crossing.	33 58 37.7	81 46 12.4	4,990
Road crossing.	33 55 02.0	81 46 03.7	3,683
Stream crossing.	33 57 28.9	81 45 43.3	3,754
Road crossing.	33 57 10.2	81 45 34.8	2,023
Creek crossing.	33 56 55.5	81 45 24.6	1,710

## West through south half of quadrangle. (By Oscar Jones in 1919.)

T road south.	33 51 13.4	81 45 07.8	.....
Road forks.	33 50 53.5	81 46 03.7	5,130
Road forks.	33 50 36.7	81 47 13.1	6,090
Crossroads.	33 51 13.6	81 48 06.1	5,819
Center of road, opposite house, 70 feet south of road forks.	33 51 32.0	81 48 30.7	2,793
T road south.	33 51 54.2	81 50 02.1	8,026
Center of road, opposite house on north and well on south.	33 52 31.2	81 50 51.6	5,601
Crossroads.	33 53 06.2	81 51 51.8	6,192
Edgefield, 8 miles northeast of, at southeast corner of Mathews crossroads; iron post stamped "Prim. Trav. Sta. No. 91 J, 1919".	33 53 29.0	81 52 09.7	2,746
Road fork.	33 52 50.3	81 52 18.2	3,980
Center of bridge over Turkey Creek.	33 52 10.0	81 52 51.5	4,958
Center of bridge.	33 51 43.1	81 53 14.2	3,325
Road fork.	33 51 32.9	81 53 14.6	1,027
Forks of three roads.	33 51 03.9	81 53 13.8	2,930
Creek crossing.	33 50 36.2	81 53 53.8	4,387
Road fork.	33 50 12.4	81 54 08.8	2,717
Center of road, opposite church.	33 49 39.4	81 54 16.5	3,407
Creek crossing.	33 48 55.0	81 54 56.6	5,622
Road fork.	33 48 27.3	81 55 27.7	3,833
Crossroads.	33 48 13.6	81 55 41.3	1,802
Road fork at top of hill.	33 47 53.3	81 55 50.3	2,195
Edgefield; granite post, cross in top, marked "XIII Lofton" on side.	33 47 23.4	81 55 47.8	3,027
Road fork.	33 46 28.7	81 55 04.8	6,613

## EDGEFIELD QUADRANGLE—Continued.

West through south half of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road fork.....	33	46	15.4	81	54	44.7	<i>Feet.</i> 2,166
Edgefield, 3 miles southeast of, 300 feet south and 45 feet west of road crossing on Southern Ry., at Park Hill station; iron post stamped "Prim. Trav. Sta. No. 9 Y, 1918".....	33	45	46.1	81	53	47.8	5,649
Center of bridge.....	33	47	21.4	81	56	07.4	.....
Road fork.....	33	47	12.7	81	56	42.2	3,063
Road fork south.....	33	47	26.9	81	57	37.0	4,840
Road forks.....	33	47	36.6	81	57	59.6	2,149
Road forks.....	33	47	57.8	81	58	32.9	3,530
Road forks.....	33	47	38.0	81	59	06.9	3,500
Road forks.....	33	47	21.3	81	59	25.1	2,280
Crossroads.....	33	47	22.6	81	59	50.3	2,129

Magnetic declination through south half of quadrangle, 00° 00'; along north border, 00° 02' W.; in southwest quarter, 00° 16' E.; along east border, 00° 07' W.

Northeast along Southern Ry. (By George T. Hawkins in 1918.)

Road crossing.....	33	44	55.4	81	50	18.4	.....
Road crossing.....	33	45	34.9	81	50	19.1	3,994
Road crossing at house.....	33	45	56.2	81	50	20.5	2,151
Road crossing, 20 feet southwest of crossing sign.....	33	46	45.3	81	50	26.9	5,004
Banknight, road crossing at.....	33	47	13.7	81	50	05.7	3,379
Road crossing, 20 feet northeast to sign.....	33	48	07.1	81	49	21.4	6,570
County-road crossing, road runs north and south.....	33	48	51.5	81	48	44.6	5,460
Road crossing.....	33	49	02.3	81	48	35.7	1,320
Joint on south rail, main line, on road crossing southeast of John- ston station.....	33	49	50.1	81	48	05.6	5,465
Private-road crossing.....	33	50	14.0	81	47	35.6	3,503
Road crossing.....	33	50	29.3	81	46	53.6	3,871
Second-class road crossing.....	33	50	47.5	81	46	03.2	4,629
Road crossing, 20 feet northeast of crossing sign.....	33	51	05.4	81	45	04.1	5,300

No declination observed.

## EDISTO ISLAND QUADRANGLE.

Along Seaboard Air Line Ry. near west border of quadrangle. (By E. L. McNair, 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Ashepoosiding, public-road crossing.....	32	38	08.6	80	29	56.2	<i>Feet.</i> .....
Ashepoo siding, on Seaboard Air Line Ry., 450 feet N. 25° W. from public-road crossing, 15 feet east of center of road, 2 feet from wire fence; iron post stamped "Prim. Trav. Sta. No. 36, 1917 Mac." Azimuth of railroad track, 248° 08'; Azimuth to wire nail in pine tree, 300 feet distant, 150° 5'.....	32	38	12.6	80	29	58.5	449

Along Seaboard Air Line Ry. northeast through quadrangle. (By E. L. McNair in 1917.)

Meggetts station, about 7.5 miles southwest of, at main public- road crossing to Edisto Island, 100 feet northeast of road crossing, 25 feet north of railroad track, in line of telephone poles; iron post "Prim. Trav. Sta. 37, 1917 Mac", azimuth of railroad tangent, 248° 10' 30".....	32	41	10.3	80	21	02.0	.....
Farm-road crossing.....	32	41	19.3	80	20	34.4	2,499
Public-road crossing.....	32	41	37.7	80	19	39.9	5,016
Crossing of Atlantic Coast Line R. R. branch line and Seaboard Air Line Ry.....	32	41	45.9	80	19	15.6	2,240
Public-road crossing.....	32	41	55.4	80	18	48.3	2,520
Crossing of Atlantic Coast Line R. R. branch line and Seaboard Air Line Ry.....	32	42	16.8	80	17	45.0	5,830
Second-class road crossing.....	32	42	36.0	80	16	48.2	5,224
Public-road crossing.....	32	42	44.6	80	16	23.0	2,325
Public-road crossing.....	32	43	05.0	80	15	22.5	5,570

## EDISTO ISLAND QUADRANGLE—Continued.

From Edisto Island northwest along highway to Seaboard Air Line Ry.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road northeast through gate to Johnstone place.....	32	32	21.2	80	15	39.0	.....
Forks of road, near store.....	32	33	06.3	80	16	39.9	6,920
Edisto Island post office, small creek bridge near.....	32	33	37.6	80	16	47.4	3,234
Road northeast, near a church.....	32	34	21.3	80	17	04.7	3,234
Murray's store, cypress-tree plantation, 15 feet south and 30 feet west of cross roads, on slight bank 20 feet north of old store building; iron post stamped, "Prim. Trav. Sta. No. 47, 1917".....	32	34	42.9	80	17	50.9	4,513
Center of road, in front of church on north side of road.....	32	34	45.1	80	18	29.7	3,330
T road south.....	32	34	38.3	80	19	27.5	4,994
T road north, 500 feet west of road forks.....	32	34	51.8	80	20	11.8	4,022
T road (at second-class road).....	32	34	55.1	80	20	44.2	2,800
T road north, 1,050 feet west of T road south.....	32	35	21.9	80	21	42.5	5,676
Road bridge.....	32	36	06.1	80	21	42.6	4,465
Cross roads.....	32	36	14.6	80	21	12.1	3,708
Angle of 48° 15' in road, intersection of center lines.....	32	36	32.4	80	20	55.5	2,294
Second-class T road east.....	32	37	08.3	80	20	37.9	3,928
Edisto Island ferry landing, 3,460 feet southeast of; a 1½-inch pipe in center of a 6-inch tile pipe filled with concrete, marked "U S B M. 1909".....	32	37	47.9	80	20	07.5	4,773
Edisto Island ferry landing, north side of Dawho River, end of road.....	32	38	15.5	80	20	31.3	3,460
Angle of 48° in road, intersection of center lines, about 10 feet west of wagon track.....	32	39	02.8	80	20	42.9	4,878
Forks of road, near store.....	32	39	39.5	80	20	24.6	4,020
Forks of road southeast, at store, 430 feet southeast of fork with road west.....	32	40	32.0	80	20	53.2	5,840
Prim. Trav. Sta. No. 37, 1917 Mac (previously described).....	32	41	10.3	80	21	02.0	3,946

Magnetic declination in southeast part of quadrangle, 0.6° W.

Northeast along railroad. (By E. L. McNair in 1917.)

Prim. Trav. Sta. No. 36, 1917 (described above).....	32	38	12.6	80	29	58.5	.....
Ashepool River bridge, center of draw span.....	32	38	32.7	80	28	45.2	6,587
Center of main track, in line with tangent in branch line south-east.....	32	39	05.8	80	27	07.7	8,982
Milepost 198.....	32	39	27.7	80	26	03.3	5,940
Edisto River, center of swing span.....	32	39	50.7	80	24	55.4	6,250
Second-class road crossing.....	32	40	06.1	80	24	10.1	4,170
Second-class road crossing.....	32	40	17.7	80	23	36.2	3,130
Road crossing, 325 feet north of milepost 193.....	32	40	25.0	80	23	14.6	1,985
Second-class road crossing.....	32	40	34.9	80	22	45.6	2,678
Second-class road crossing.....	32	40	52.0	80	21	55.1	4,650
Intersection of road with branch of Atlantic Coast Line R. R.....	32	41	06.9	80	21	11.2	4,038
Public-road crossing.....	32	41	09.7	80	21	03.0	760
Prim. Trav. Sta. No. 37 (described above).....	32	41	10.3	80	21	02.0	102

Magnetic declination along Seaboard Air Line Ry. in north half of quadrangle, 0° 38' E.; along highways in east half, 0° 36' W.

## EDMUND QUADRANGLE.

North along west border of quadrangle. (By E. L. McNair in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road crossing.....	33	45	32.9	81	14	53.6	.....
Pellon station, 80 feet south of, 19 feet east of center of track; iron post stamped "Elev. 391"; azimuth to church steeple, 137° 06' 12".....	33	45	46.35	81	14	43.35	1,615

## EDMUND QUADRANGLE—Continued.

## North along road to Lexington.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Crossroad.....	33	55	05.8	81	14	56.7	.....
Red Bank, 0.2 mile southwest of, center of crossroads.....	33	55	34.8	81	14	41.1	3,218
Red Bank Creek, center of bridge over.....	33	55	44.2	81	14	32.9	1,177
Road forks.....	33	56	32.8	81	14	11.2	5,246
Crossroads.....	33	56	39.8	81	14	09.8	719
Lexington station, 1.1 miles south of, center of crossroads.....	33	57	06.9	81	14	03.4	2,791
Lexington, Prim. Trav. Sta. No. 47, 1918 H (described below).....	33	58	02.80	81	14	00.97	5,653

## From west border of quadrangle east to Lexington.

Crossroads, Aiken, Columbia, and Newberry.....	33	59	11.8	81	14	43.1	.....
Lexington, southeast corner of courthouse yard, center of street crossing.....	33	58	51.8	81	14	09.9	3,449
Center of iron bridge.....	33	58	24.5	81	14	09.4	2,763
Lexington, Prim. Trav. Sta. No. 47, 1918 H (described below).....	33	58	02.80	81	14	00.97	2,305

Magnetic declination near west border of quadrangle, 0° 23' W.

## Northwest along State road to Columbia. (By Oscar Jones in 1919.)

Road fork.....	33	51	06.4	81	00	31.4	.....
Center of bridge.....	33	51	31.3	81	00	46.6	2,830
Crossroads.....	33	51	59.1	81	01	04.1	3,160
U. S. permanent bench-mark post stamped "Elev. 180" (179.9).....	33	52	38.41	81	01	28.38	4,471
Center of bridge at mill.....	33	52	57.6	81	02	48.2	7,002
Crossroads.....	33	53	05.0	81	03	10.6	2,031
Road fork to Swansea.....	33	54	08.5	81	03	54.4	7,402
U. S. Coast and Geodetic Survey triangulation station Logan, 1918, about 1 mile south of Dixiana, on Seaboard Air Line Ry.....	33	54	28.61	81	04	04.21	2,195

## From east border of quadrangle northwest along Southern Ry. to Columbia.

Columbia, 4.1 miles southeast of, in village of Arthur, on west edge of Bluff Road, at southeast corner of dwelling; iron post stamped "Elev. 169".....	33	57	36.56	81	00	06.86	.....
Center of concrete bridge.....	33	58	03.0	81	00	45.8	4,223
Road fork, at southwest corner of State fair grounds.....	33	58	33.6	81	01	30.6	4,886
Crossing of Atlantic Coast Line R. R. and electric line, at Bluff Road.....	33	59	02.8	81	01	40.4	3,064

Magnetic declination for quadrangle, 0° 14' W.

## From south border of quadrangle north through west part of quadrangle. (By G. T. Hawkins in 1918.)

Five corners, 150 feet south of church.....	33	45	27.0	81	10	08.6	.....
Opposite mail box, at T road east.....	33	47	21.3	81	10	52.1	12,124
Crossroads, 20 feet southwest of mail box.....	33	48	27.7	81	11	18.2	7,063
Crossroads, 600 feet north of church.....	33	50	05.8	81	12	07.6	10,760
Edmund, 20 feet east of railroad, 60 feet northeast of station, 2 feet southeast of crossing sign; iron post stamped "Prim. Trav. Sta. No. 58, 1918 H".....	33	51	41.84	81	12	01.32	9,722
Crossroads.....	33	52	41.9	81	13	02.1	7,944
Forks at house.....	33	53	08.7	81	13	22.7	3,223
Second-class crossroads, 200 feet northeast to new church.....	33	53	54.6	81	13	12.0	4,726
Second-class crossroads.....	33	54	39.9	81	13	05.6	4,616
Second-class crossroads.....	33	55	06.7	81	13	05.9	2,710
Second-class crossroads.....	33	56	21.4	81	13	26.8	7,744
Road crossing.....	33	57	14.1	81	13	50.5	5,696
Lexington, "Prim. Trav. Sta. No. 47, 1918 H" (described below).....	33	58	02.80	81	14	00.97	5,000

Magnetic declination along west border of quadrangle, 0° 12' W.

## EDMUND QUADRANGLE—Continued.

East along Southern Ry. in north part of quadrangle. (By George T. Hawkins in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road crossing, 20 feet east of crossing sign.....	33	57	30.1	81	14	33.0	.....
Lexington railroad station.....	33	58	02.3	81	14	02.3	4, 159
Lexington railroad station (Bull. 181, p. 150), astronomic value.....	33	57	58.3	81	14	05.2	.....
Lexington, 10 feet south of railroad, 30 feet east of road crossing, 3 feet north of sign; iron post stamped "Prim. Trav. Sta. No. 47 H, 1918".....	33	58	02.80	81	14	00.97	122
Road crossing.....	33	58	14.2	81	13	33.8	2, 563
Road crossing.....	33	58	18.9	81	12	59.0	2, 969
Second-class road crossing.....	33	58	23.2	81	11	47.7	6, 020
Second-class road crossing.....	33	58	27.2	81	10	45.2	5, 281
Road crossing, 150 feet south of county road.....	33	58	28.8	81	10	20.9	2, 050
Road crossing, 40 feet southwest of crossing sign.....	33	58	29.6	81	10	08.3	1, 230
Arthur, road crossing.....	33	58	15.4	81	08	45.0	6, 990
Arthur, 0.5 mile east of, 20 feet southwest of road crossing, 30 feet south of railroad; iron post stamped "Prim. Trav. Sta. No. 52 H, 1918".....	33	58	17.98	81	08	16.24	2, 440
County-road crossing.....	33	58	37.2	81	07	11.9	5, 755
Second-class road crossing.....	33	58	37.2	81	06	05.4	5, 600
Second-class road crossing.....	33	58	32.4	81	05	26.0	3, 308
Station 330=station 146, tie point.....	33	58	21.06	81	03	41.21	8, 945

## North along Seaboard Air Line Ry.

Second-class road crossing.....	33	45	06.7	81	06	18.6	.....
Road crossing.....	33	45	34.3	81	06	25.4	2, 841
County-road crossing.....	33	46	08.9	81	06	23.5	3, 500
Road crossing, at head block at blind siding.....	33	46	46.7	81	06	21.3	3, 821
Road crossing, 20 feet southeast of crossing sign post.....	33	47	56.6	81	06	17.3	7, 080
Second-class road crossing.....	33	48	15.4	81	06	16.2	1, 900
County-road crossing.....	33	48	44.8	81	06	14.6	2, 970
Gaston, U. S. Coast and Geodetic Survey traverse station, on Seaboard Air Line Ry. right of way, at curve, about 300 meters south of depot, at intersection of prolongation of northward tangent to curve of east rail of main track and southward tangent to curve of west rail, 6.03 meters west of west rail of main track; standard disk set in top of square block of concrete; a block of concrete 3 feet below ground containing at center of its upper surface a copper bolt projecting slightly above concrete.....	33	48	56.46	81	06	13.90	1, 180
County-road crossing.....	33	49	12.88	81	06	09.6	1, 703
Top, traverse station of U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, on east bank of second cut, about 1 mile north of Gaston railroad station, 550 meters south of milepost 266, 300 meters north of a public-road crossing, 0.25 mile north of curve, about 10 meters east of railroad tracks, 6 meters above track. Reference mark, distant 25.23 meters, 325 meters south of private-road crossing; about 10 meters east of east rail of tracks and about 6 meters above track. Surface station mark: A standard disk set in top of a square block of concrete.....	33	50	07.76	81	05	54.18	5, 708
Road crossing.....	33	50	16.8	81	05	52.1	934
Top A, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at curve at milepost 226, 1.5 miles north of Gaston railroad station, at intersection of tangents to curve of east rail of main track, 2.12 meters west of west rail; standard disk in top of square block of concrete.....	33	50	24.52	81	05	50.03	788
Road crossing.....	33	50	43.5	81	05	42.6	2, 020
Road crossing.....	33	51	15.9	81	05	45.1	3, 279
Top C, traverse station of U. S. Coast and Geodetic Survey, just west of Seaboard Air Line Ry. right of way, at curve at milepost 267, about 2.5 miles north of Gaston railroad station, at intersection of tangents to curve of east rail of main track, 49.53 meters west of west rail (U. S. C. & G. S. b. m. H <sub>2</sub> ). Reference mark, distant 60.33 meters; station mark, a standard disk in top of square block of concrete.....	33	51	24.64	81	05	50.88	1, 007
Road crossing.....	33	51	41.4	81	05	41.8	1, 862
Top D, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, near highest point of track, 650 meters north of milepost 267, about 3 miles north of Gaston railroad station, 140 meters north of private-road crossing, 1.77 meters east of east rail of main track; standard disk in top of square block of concrete.....	33	51	45.41	81	05	39.69	442

## EDMUND QUADRANGLE—Continued.

## North along Seaboard Air Line Ry.—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Top E, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at curve 170 meters north of milepost 268, about 3.5 miles north of Gaston railroad station, on prolongation of southward tangent to curve of east rail of main track, 16.56 meters west of west rail. Reference mark, distant 18.58 meters, 13.67 meters west of west rail of main track; station mark, a standard disk in top of square block of concrete.....	° ' " 33 52 09.08	° ' " 81 05 27.12	Feet. 2,617
Top F, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, on curve 510 meters north of milepost 268, about 4 miles north of Gaston railroad station, 11.46 meters west of west rail of main track, about 1 meter above track; standard disk in top of square block of concrete.....	33 52 13.40	81 05 15.09	1,104
Top G, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at south end of curve, 600 meters south of milepost 269, about 4.75 miles north of Gaston railroad station, on prolongation of southward tangent to curve of west rail of main track, 10.74 meters east of east rail; standard disk in top of square block of concrete.....	33 52 09.51	81 04 56.71	1,589
Road crossing, 20 feet northeast to bench mark.....	33 52 11.7	81 04 45.8	930
Top H, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at north end of curve, 320 meters south of milepost 269, about 5 miles north of Gaston railroad station, on prolongation of northward tangent to curve of west rail of main track, 8.6 meters east of east rail (U. S. C. & G. S. b. m. 1.). Reference mark, distant 27.56 meters; station mark, a standard disk in top of square block of concrete.....	33 52 11.98	51 04 44.42	107
Top I, traverse station of U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at milepost 269, about 5 miles north of Gaston railroad station, 11.62 meters south-west from milepost and 2.24 meters west of west rail of main track; standard disk in top of square block of concrete.....	33 52 18.07	81 04 35.72	958
Picardy, traverse station of the U. S. Coast and Geodetic Survey, on wooded hill on west side of Seaboard Air Line Ry. track, between mileposts 269 and 270, about 10 miles south of Columbia, on prolongation of northward tangent to curve at milepost 270, and 600 meters southeast from point of tangent; standard disk in top of square block of concrete.....	33 52 27.64	81 04 40.62	1,052
Picardy A, traverse station of U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at curve, 230 meters south of milepost 270, at intersection of prolongation of northward tangent to curve of east rail and southward tangent to curve of west rail, 37.11 meters west of west rail; standard disk in top of square block of concrete.....	33 53 06.19	81 05 00.17	4,231
Road crossing.....	33 53 15.2	81 04 55.0	1,015
Picardy B, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, 540 meters south of milepost 271, about 8 miles south of Columbia railroad station, at intersection of tangents to curve of east rail of main track, 5.80 meters east of east rail, 20 meters south of a whistling post, about 1 meter above the track; standard disk in top of square block of concrete.....	33 53 30.84	81 04 46.03	1,746
Road crossing, 20 feet southeast of crossing sign.....	33 53 37.6	81 04 43.7	720
Picardy C, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at curve 800 meters south of milepost 272, 1 mile south of Dixiana railroad station, at intersection of prolongation of northward tangent to curve of west rail of main track and southward tangent to curve of east rail, about 30 meters west of west rail, 5 meters above track; standard disk in top of square block of concrete...	33 54 11.76	81 04 31.90	3,585
Road crossing under railroad.....	33 54 18.4	81 04 20.9	1,150
Logan, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at curve at milepost 272, 0.5 mile south of Dixiana railroad station, at intersection of prolongation of southward tangent to curve of west rail of main track and northward tangent to curve of east rail, 14.48 meters east of east rail, 15 meters south of a public-road crossing; standard disk in top of square block of concrete.....	33 54 28.61	81 04 04.21	1,738
Dixiana, railroad crossing.....	33 55 08.8	81 03 33.6	4,811
Dixiana, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at curve at Dixiana railroad station, 28 meters south of milepost 273, at intersection of tangents to curve of east rail of main track, 13.37 meters east of east rail, a private road runs between the station and the tracks; standard disk in top of square block of concrete.....	33 55 11.01	81 03 31.75	274
Road crossing.....	33 55 37.5	81 03 24.6	2,746



## EDMUND QUADRANGLE—Continued.

North along Seaboard Air Line Ry.—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Kid, traverse station of the U. S. Coast and Geodetic Survey, on Seaboard Air Line Ry. right of way, at curve at milepost 275, about 1 mile south of southern limit of yard at Cayce railroad station, at intersection of prolongation of northward tangent to curve of west rail of main track and southward tangent to curve of east rail, 20.21 meters east of east rail; standard disk in top of square block of concrete.....	33	56	59.06	81	03	02.60	8,441
Road crossing, 20 feet northeast to U. S. Coast and Geodetic Survey bench mark.....	33	57	16.4	81	03	09.2	1,840
Road crossing.....	33	57	36.3	81	03	16.7	2,100
Cayce, station on main line of Seaboard Air Line Ry.; joint on rail at crossing.....	33	58	24.5	81	03	05.0	4,967
Cayce, railroad station (Bull. 181, p. 150).....	33	58	26.5	81	03	15.9	934
Astronomic value.....	33	58	22.6	81	03	15.9	.....
Cayce, joint on south rail, junction point.....	33	58	21.06	81	03	41.20	2,195

No declination observed.

## ELLIOT QUADRANGLE.

West along south border of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road forks, at schoolhouse.....	34	00	18.1	80	00	33.4	.....
T road southeast at county line.....	34	00	47.5	80	01	16.7	4,706
Road forks.....	34	00	20.8	80	01	40.4	3,356
T road southeast.....	34	00	05.6	80	03	46.6	.....
Road forks.....	34	00	57.2	80	04	39.2	6,839
T road southeast.....	34	01	38.4	80	05	39.8	6,586
T road northwest, east side of road, 4 feet northeast of bridge, 0.5 mile southeast of Atkins; iron post stamped "Prim. Trav. Sta. No. 50 J, 1918".....	34	01	16.5	80	06	06.5	3,153
Atkins depot, east side of railroad crossing, 318 feet east of center operation window.....	34	02	16.0	80	06	54.6	7,252
Second-class road crossing.....	34	01	45.4	80	07	49.5	5,559
Second-class road crossing.....	34	01	32.7	80	08	12.5	2,320
Second-class road crossing.....	34	01	19.1	80	08	36.8	2,470
Second-class road crossing.....	34	01	06.0	80	09	00.4	2,380
Public-road crossing.....	34	00	41.0	80	09	45.4	4,560
Public-road crossing.....	34	00	20.0	80	10	23.0	3,810

Magnetic declination for south border of quadrangle, 00° 57' W.

## ELLOREE QUADRANGLE.

Southwest along Atlantic Coast Line R. R. across center of quadrangle. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Rimini, 500 feet north of depot, south side of public road at crossing, west side of track, 4 feet north of crossing sign; iron post stamped "Prim. Trav. Sta. No. 63 J, 1919".....	33	40	07.79	80	30	03.38	.....
North end of trestle over Santee River.....	33	39	25.7	80	30	55.8	6,138
North end of steel bridge over Santee River.....	33	38	38.8	80	31	56.9	7,010
South end of steel bridge over Santee River.....	33	38	34.9	80	32	02.0	585
South end of tangent, angle iron with X in center of track.....	33	38	10.0	80	32	34.3	3,709
North end of tangent, angle iron with X in center of track.....	33	38	04.3	80	32	46.3	1,162
Road crossing.....	33	38	00.8	80	33	04.9	1,610
Road crossing.....	33	37	49.5	80	34	05.1	5,220
Center of trestle, public road under.....	33	37	44.2	80	34	33.4	2,450
Lonestar, 1,600 feet south of depot, 18 feet west of track, 10 feet south of public road, 2 feet south of crossing sign; iron post stamped "Prim. Trav. Sta. No. 64, J, 1919".....	33	37	23.55	80	35	36.81	5,748
Road crossing.....	33	36	42.3	80	37	06.0	8,619
Road crossing.....	33	36	25.4	80	37	52.3	4,265

## ELLOREE QUADRANGLE—Continued.

Southwest along Atlantic Coast Line R. R. across center of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Center of steel-girder bridge over creek.....	33	36	08.2	80	38	14.7	2,569
Creston depot, center of track, opposite semaphore.....	33	35	39.8	80	38	39.8	3,572
Road crossing.....	33	35	20.3	80	39	06.2	2,980
Road crossing.....	33	34	55.7	80	39	55.4	4,840
Road crossing.....	33	34	26.2	80	40	54.2	5,800
Road crossing.....	33	34	09.8	80	41	26.7	3,210
Road crossing.....	33	33	51.3	80	42	03.6	3,640
Cameron, Atlantic Coast Line R. R. and State road crossing, 1,400 feet northeast of depot, south side of State road, west of track, 3 feet south of crossing sign; iron post stamped "Prim. Trav. Sta. No. 74 J, 1919".....	33	33	33.51	80	42	39.06	3,552
Road crossing, Cameron and Orangeburg road.....	33	33	07.3	80	43	31.3	5,098
Road crossing.....	33	32	27.5	80	44	50.3	7,800

No magnetic declination given.

From Lonestar southeast along public road to Parler, in southeast corner of quadrangle.

Lonestar Primary Traverse post No. 64 J (previously described).....	33	37	23.55	80	35	36.81	.....
Center of small bridge.....	33	36	52.4	80	35	06.6	4,056
Center of bridge, middle one of three, on Halfway Swamp.....	33	35	54.4	80	34	22.0	6,969
T road southwest.....	33	35	14.9	80	33	39.5	5,373
Crossroads.....	33	34	49.4	80	33	54.0	2,850
Crossroads.....	33	34	17.9	80	34	11.9	3,530
Crossroads.....	33	33	24.4	80	34	37.0	5,803
T road northeast.....	33	32	44.4	80	35	05.7	4,720
Elloree, crossing of Main Street and Monks Corner and Columbia roads, brick store of Elloree Hardware Co. on northeast corner, brick wall 5 feet east.....	33	31	50.0	80	34	19.6	6,737
Center of bridge.....	33	31	24.3	80	33	53.4	3,419
T road southwest.....	33	30	48.9	80	33	04.2	5,487
Jerusalem Church and graveyard, north side of public road, in line with brick wall and 11 feet west of southwest corner; iron post stamped "Prim. Trav. Sta. No. 65 J, 1919".....	33	30	35.22	80	32	41.65	2,362

Mean magnetic declination, 16' W.

Northwest along State road to Cameron.

Cedar Grove School, road fork at.....	33	30	19.9	80	39	56.8	.....
Gate to F. M. Dantzer's house, center of road opposite.....	33	30	48.4	80	40	20.6	3,520
Road fork.....	33	31	13.4	80	40	41.6	3,099
T road northeast.....	33	31	51.3	80	41	13.3	4,670
Center of bridge.....	33	32	04.3	80	41	24.3	1,620
Road fork south.....	33	32	30.0	80	41	45.8	3,180
Center of bridge.....	33	33	07.1	80	42	17.2	4,590
Cameron, Prim. Trav. Sta. No. 74 (previously described).....	33	33	33.51	80	42	39.88	3,293

From Elloree southwest along public road to post 73.

Elloree, crossing of Main Street and Moncks Corner road and Columbia road (previously described).....	33	31	50.0	80	34	19.6	.....
Road fork.....	33	31	03.7	80	34	40.1	4,995
T road southeast.....	33	30	36.0	80	35	21.2	4,468
Road fork.....	33	30	03.1	80	36	02.0	4,798

Southeast along highways on east border of quadrangle. (By Oscar Jones in 1918.)

Crossroads.....	33	44	53.6	80	31	45.5	.....
Road forks northwest, 200 feet south of church.....	33	44	22.9	80	31	46.1	3,107
Creek crossing.....	33	44	02.0	80	31	32.6	2,395
Pinewood, 3 miles west of, in southeast corner of Fulton crossroads, 20 feet from intersection; iron post stamped "Prim. Trav. Sta. No. 55".....	33	43	37.1	80	30	41.0	5,036

## ELLOREE QUADRANGLE—Continued.

From Cameron northwest along State road to Columbia. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	''	°	'	''	Fect.
Cameron, Prim. Trav. Sta. No. 74 (previously described).....	33	33	33.51	80	42	39.86	.....
Road fork.....	33	34	14.3	80	43	14.1	5,038
Crossroads.....	33	34	46.1	80	43	41.1	3,940
Center of bridge.....	33	35	21.2	80	44	07.0	4,169
Crossroads at store.....	33	36	09.8	80	44	37.2	5,538

From northwest corner of quadrangle east along public road to Fort Motte.

Center of road, opposite three mail boxes at road fork.....	33	44	17.2	80	44	39.6	.....
Road fork.....	33	44	27.1	80	44	06.2	2,990
Road fork northwest.....	33	44	40.0	80	43	14.0	4,598
T road south, opposite house on north side of road.....	33	44	32.7	80	42	42.3	2,769
Road fork.....	33	44	26.5	80	41	55.4	4,009
Fort Motte, 500 feet south of station of Southern Ry., at public road crossing, on north side of road, 20 feet east of track, 4 feet west of crossing sign; iron post stamped "Prim. Trav. Sta. No. 84, 1919 J".....	33	44	16.89	80	41	32.68	2,153

From Lonestar northwest along public road to Fort Motte.

Lonestar, Prim. Trav. Sta. No. 64 (previously described).....	33	37	23.55	80	35	36.81	.....
Road fork to Creston.....	33	37	58.0	80	35	58.0	3,916
Center of concrete culvert.....	33	38	51.7	80	36	01.2	5,434
Road fork.....	33	39	37.8	80	36	15.1	4,803
Center of bridge.....	33	39	59.7	80	36	45.8	3,408
Road fork.....	33	40	21.8	80	36	53.6	2,324
Road fork, 80 feet west of store.....	33	40	37.5	80	37	50.5	5,055
Center of bridge.....	33	41	25.8	80	38	45.5	6,738
Crossroads.....	33	42	00.4	80	39	23.9	4,769
Crossroads at store.....	33	42	32.8	80	39	59.8	4,459
Crossroads at church and graveyard.....	33	42	50.4	80	40	16.8	2,279
Road fork.....	33	43	27.3	80	40	44.1	4,387
Fort Motte Prim. Trav. Sta. No. 84, 1919 J (previously described).....	33	44	16.89	80	41	32.68	6,473

From west border of quadrangle along Southern Ry. to Fort Motte.

Road crossing.....	33	41	05.4	80	44	20.3	.....
Road crossing at Singleton.....	33	41	15.6	80	43	49.2	2,820
Road crossing.....	33	41	45.3	80	42	52.3	5,665
Road crossing, overhead bridge.....	33	42	39.9	80	42	33.3	5,746
Creek crossing, stone culvert.....	33	43	30.5	80	42	04.6	5,657
Fort Motte, "Prim. Trav. Sta. No. 84, 1919 J" (previously described).....	33	44	16.89	80	41	32.68	5,406

From Fort Motte along Southern Ry. to Columbia.

Fort Motte, Prim. Trav. Sta. No. 84 (previously described).....	33	44	16.89	80	41	32.68	.....
Road crossing.....	33	44	42.8	80	40	47.3	4,647

Magnetic declination for center of quadrangle, 07' W.; for northwest part, 16' W.; for southwest part, 19' W.

## EUTAWVILLE QUADRANGLE.

From post 68, McNair 1917, west along public road to post 65, McNair 1917, thence northwest to Holly Hill, thence west along State road to Bowman quadrangle. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Fed.
Crossroads at store, 25 feet west of; nail in stump, T. B. M. Elev. 91.5 feet	33	16	38.1	80	15	31.5	-----
Center of bridge	33	16	24.1	80	16	14.7	3,930
Creek crossing	33	16	16.9	80	16	45.5	2,715
Center of bridge	33	15	49.7	80	17	22.9	4,200
Center of bridge	33	15	25.1	80	18	36.2	6,698
Junction of Monks Corner road with State road, on south side of road, in line with Monks Corner road. U. S. P. B. M. post. Elev. 80	33	15	14.59	80	19	15.84	3,532
Road fork	33	16	20.6	80	20	46.7	10,199
Black Creek, east end of bridge over; creek is line between Orangeburg and Berkeley counties	33	16	32.0	80	21	02.0	1,735
T road south	33	17	11.2	80	21	37.2	4,963
Briner Branch, center of bridge over	33	17	29.8	80	22	04.7	3,000
T road north through gate	33	18	16.8	80	23	06.8	7,088
Road fork	33	18	44.8	80	23	53.9	4,909
Road fork	33	19	09.2	80	24	29.4	3,890
Holly Hill, center of track, spike in tie	33	19	18.4	80	24	43.4	1,509
Center of bridge	33	19	33.0	80	25	04.7	2,329
T road north, Camden road	33	19	48.1	80	25	26.5	2,400
Road fork to St. George	33	20	16.7	80	26	08.2	4,569
T road south	33	20	46.1	80	26	51.5	4,720
Target Swamp, center of bridge over	33	20	56.9	80	27	07.3	1,730
T road north at house	33	21	29.8	80	27	55.6	5,279
Center of road, opposite gin	33	22	01.2	80	28	30.1	4,320
Carson School, 55 feet northwest of schoolhouse, in line with road north; iron post stamped "Prim. Trav. Sta. No. 72 J, 1919"	33	22	23.75	80	28	55.34	3,125
Horse Range Branch, east end of bridge over	33	22	37.6	80	29	28.9	3,169

## From Eutaw Springs east along Monks Corner road to Pinopolls.

Eutaw Springs, center of granite monument marking the battle field of Eutaw Springs, 1781	33	24	25.92	80	17	54.70	-----
Crossroads at school house	33	23	51.0	80	16	53.9	6,251
Crossroads	33	23	35.2	80	16	21.7	3,158
Crossroads	33	23	21.8	80	15	40.9	3,718

## From station 6290 south along county-line road to post 68, McNair 1917.

Road fork	33	19	20.7	80	15	03.7	-----
Crossroads	33	18	43.2	80	15	07.4	3,806
Road fork at bridge	33	18	12.8	80	15	10.8	3,099
Creek crossing	33	17	30.8	80	15	22.8	4,373
Road fork at Black Creek Church	33	17	07.4	80	15	26.5	2,389
Crossroads at store, 25 feet west of, nail in stump, T. B. M. Elev. 91.5 (previously described)	33	16	38.1	80	15	31.5	2,994

## From post 66 south along Atlantic Coast Line R. R. to Harleyville.

Eutawville, 1 mile north of, at southeast corner of crossroads, 40 feet east of granite post 12 by 12 inches (land corner); iron post stamped "Prim. Trav. Sta. No. 66 J, 1919"	33	24	52.46	80	21	22.59	-----
Road fork	33	24	25.8	80	21	13.1	2,829
Eutawville, center of track of Atlantic Coast Line R. R., opposite semaphore of station	33	23	36.7	80	20	53.1	5,254
Road crossing	33	23	11.3	80	21	05.3	2,773
Road crossing	33	22	38.6	80	21	36.0	4,220
Road crossing	33	22	11.7	80	22	01.2	3,460
Connors station, road crossing at	33	21	08.0	80	23	00.7	8,190
Road crossing	33	20	24.9	80	23	41.0	5,539
Road crossing	33	20	03.2	80	24	01.3	2,800
Holly Hill, 300 feet north of depot, 10 feet west of track, on north side of public-road crossing, 300 feet south of Standard Oil Co.'s tank, 10 feet south of switch stand; iron post stamped "Prim. Trav. Sta. No. 71 J, 1919"	33	19	22.38	80	24	39.68	5,263
Holly Hill, center of track, spike in tie (previously described)	33	19	18.4	80	24	43.4	517
Bowyer, road crossing at	33	18	21.9	80	25	11.6	6,193
Road crossing	33	17	28.6	80	25	36.9	5,760
Road crossing	33	16	46.3	80	25	57.0	4,601
Center of track, opposite water tank	33	16	13.1	80	26	12.9	3,620
South end of trestle	33	15	33.9	80	26	24.5	4,080
North end of trestle	33	15	12.4	80	26	30.9	2,230

**EUTAWVILLE QUADRANGLE—Continued.**

From station 6796 south to post 7, McNair 1918.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road fork to St. George (previously described).....	33	20	16.7	80	26	08.2	.....
Target church crossroads.....	33	20	14.2	80	27	01.1	4,495
Crossroads.....	33	19	37.9	80	27	27.6	4,296
Road forks.....	33	19	04.0	80	28	03.8	4,605
Road forks.....	33	18	34.2	80	28	38.4	4,204
Four Hole Swamp, center of bridge over the east swamp.....	33	18	21.6	80	28	52.0	1,707

Mean magnetic declination, 0° 48' W.

From post 64 east to St. Stephen along public road near north border of quadrangle. (By Oscar Jones in 1919.)

Center of bridge.....	33	29	24.0	80	29	05.7	.....
Road fork to gin.....	33	29	03.4	80	28	08.5	5,268
Road fork at store.....	33	28	51.4	80	27	46.1	2,250
Road fork.....	33	28	17.8	80	27	10.3	4,559
Road fork.....	33	27	56.9	80	26	56.8	2,401
Center of bridge.....	33	27	26.7	80	26	33.0	3,655
Road fork to Vance, 1 mile.....	33	26	58.3	80	25	49.6	4,668
Cross roads.....	33	26	32.1	80	25	19.6	3,660
T road south.....	33	26	05.2	80	24	52.8	3,549
Cross roads.....	33	25	48.1	80	24	12.0	3,861
T road north.....	33	25	37.2	80	23	23.8	4,230
Cross roads.....	33	25	33.8	80	23	09.3	1,280
Cross roads.....	33	25	24.8	80	22	32.7	3,236
Eutawville, 1 mile north of P. T. Sta. No. 66 J, 1919 (previously described).....	33	24	52.46	80	21	22.59	6,779
Center of bridge.....	33	24	40.7	80	20	44.6	3,433
Cross roads.....	33	24	33.8	80	19	57.1	4,089
Road fork.....	33	24	28.1	80	19	17.1	3,437
Road fork.....	33	24	25.7	80	18	24.3	4,481
Eutaw Springs, center of granite monument (previously described).....	33	24	25.92	80	17	54.70	2,515
Cross roads.....	33	24	42.2	80	16	55.8	5,263
Road fork.....	33	24	56.5	80	16	05.8	4,471
Cross roads.....	33	25	02.2	80	15	45.1	1,850
Road fork.....	33	24	54.6	80	15	05.6	3,437

Mean magnetic declination across north part of quadrangle, 1° 12' W.

From post 72 north along public road near northwest corner of quadrangle to Parler.

Post 72 (previously described).....	33	22	23.75	80	28	55.34	.....
Center of bridge.....	33	22	59.2	80	28	52.8	3,599
Center of bridge.....	33	23	13.5	80	29	00.3	1,584
Cross roads.....	33	23	51.7	80	29	22.3	4,292
T road south, 500 feet west of Oak Grove School.....	33	24	26.0	80	29	49.5	4,172

Mean magnetic declination along west border of quadrangle, 0° 45' W.

East along public road at north border of quadrangle, Rimini-Greelyville line.

T road north on old railroad grade.....	33	29	41.8	80	23	38.8	.....
Road fork, 500 feet east of church, 40 feet west of mail box.....	33	29	36.4	80	22	50.3	4,149
Road fork.....	33	29	18.3	80	22	12.7	3,668
Center of bridge.....	33	29	03.2	80	21	33.8	3,631
Road fork.....	33	28	57.4	80	20	48.8	3,859
Schoolhouse, road crossing at, 10 feet north of two mail boxes.....	33	28	53.4	80	20	16.8	2,743
Center of creek.....	33	29	27.8	80	19	48.0	4,248
Road fork.....	33	29	54.2	80	19	25.8	3,270

Mean magnetic declination, 53' W.

## FORT MOTTE QUADRANGLE.

South along highways on north and east borders of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road forks, at schoolhouse .....	33	59	38.3	80	30	30.7	.....
Road forks, at summit of hill .....	33	59	41.0	80	30	55.3	2,095
Center of bridge .....	33	59	49.3	80	31	29.4	2,989
Creek crossing .....	33	59	38.7	80	32	24.1	.....
T road east .....	33	59	02.9	80	32	23.6	3,620
T road west .....	33	58	39.2	80	32	23.3	2,390
Road forks .....	33	58	18.5	80	32	22.9	2,090
T road west .....	33	57	30.0	80	32	06.0	5,108
Road forks, in front of store .....	33	56	42.2	80	31	24.2	5,973
Road forks southeast, at R. A. Hair's store .....	33	56	30.6	80	31	09.6	1,708
Crossroads, at three mail boxes .....	33	55	34.8	80	31	06.2	5,646
Road forks northwest .....	33	54	53.7	80	31	22.1	4,358
Center of road, opposite white church .....	33	54	18.5	80	31	17.9	3,581
Wedgefield, 50 feet west of depot, 25 feet north of track; iron post stamped "Prim. Trav. Sta. No. 54. Elev. 251" .....	33	53	34.5	80	31	01.3	4,663
T road east .....	33	53	00.3	80	31	02.2	3,451
T road east .....	33	52	29.1	80	31	02.3	3,160
Creek crossing .....	33	51	54.5	80	30	57.8	3,510
Road forks, northwest of new schoolhouse .....	33	50	59.4	80	31	12.4	5,692
Road forks .....	33	50	14.5	80	31	00.4	4,660
Crossing on Southern Ry .....	33	49	41.7	80	31	12.6	3,472
Crossroads .....	33	49	01.6	80	31	26.8	4,228
Crossroads .....	33	48	27.7	80	31	37.0	3,530
Center of bridge .....	33	48	01.0	80	31	59.5	3,302
Center of road, opposite school .....	33	47	47.2	80	32	05.5	1,487
T road east, at schoolhouse .....	33	47	02.2	80	32	34.4	5,157
Creek crossing .....	33	46	28.2	80	32	29.1	3,468
T road east .....	33	46	04.6	80	32	14.6	2,679
Road forks southeast .....	33	45	18.3	80	32	17.1	4,687
Center of creek crossing .....	33	45	04.6	80	32	13.0	1,424

## On Atlantic Coast Line R. R. east of Wedgefield.

Road crossing .....	33	53	36.9	80	30	37.4	.....
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Magnetic declination for east edge of quadrangle, 00° 33' W.

From Sumter west along Atlantic Coast Line R. R. to Columbia. (By Oscar Jones in 1918.)

Wedgefield, Prim. Trav. Sta. No. 54 (previously described) .....	33	53	34.46	80	31	01.29	.....
Center of trestle .....	33	53	30.8	80	31	31.2	2,550
Center of track, opposite signboard reading, "Railroad crossing 1 mile" .....	33	53	23.3	80	32	14.8	3,745
Camden Junction, 40 feet southwest of crossing of Atlantic Coast Line and Southern railroads, 10 feet west of depot, 20 feet south of Atlantic Coast Line track; iron post stamped "Elev. 133" .....	33	53	04.8	80	33	15.0	5,408
East end of trestle .....	33	52	49.3	80	34	16.6	5,420
Malta, 100 feet east of depot, south side of track; iron post stamped "105" .....	33	52	34.1	80	33	15.9	5,232
East end of track .....	33	52	22.6	80	36	01.1	3,978
East end of trestle .....	33	52	10.3	80	36	49.6	4,270
Wateree River, west end of steel bridge over .....	33	51	59.6	80	37	31.5	3,698
Road crossing .....	33	51	43.7	80	38	24.8	4,770
Acton, 40 feet east of depot, 25 feet north of track; iron post stamped "Elev. 177" .....	33	51	55.6	80	39	12.9	4,219
Road crossing .....	33	52	07.8	80	39	55.3	3,781
Road crossing .....	33	52	22.5	80	40	45.2	4,460
Eastover, 50 feet west of depot, 28 feet north of track; iron post stamped "Prim. Trav. Sta. No. 57, 1918 J. Elev. 190" .....	33	52	37.93	80	41	36.80	4,621
Road crossing .....	33	53	15.8	80	43	46.1	11,550
Road crossing .....	33	53	20.9	80	44	03.4	1,540
East side of public road, south of track; iron post stamped "Elev. 198" .....	33	53	33.8	80	44	48.4	4,010

Magnetic declination, 0° 00'.

## FORT MOTTE QUADRANGLE—Continued.

From Fort Motte along Southern Ry. to Columbia. (By Oscar Jones in 1919.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road crossing.....	33 45 04.9	80 40 03.9	.....
Road crossing.....	33 45 30.2	80 39 45.9	2,975
Road crossing.....	33 45 48.7	80 39 43.6	1,878
South end of steel drawbridge over Congaree River.....	33 46 07.5	80 39 54.8	2,127
North end of trestle.....	33 46 54.8	80 40 41.1	6,170
Kingville, center of track, opposite semaphore of station.....	33 48 16.6	80 42 01.0	10,674
Road crossing.....	33 48 56.6	80 42 49.3	5,733
Road crossing.....	33 49 28.9	80 43 47.4	5,890
Road crossing.....	33 49 58.6	80 44 40.7	5,400

From Kingville east along Southern Ry. to Acton, thence north along public road to post 72.

Kingville, center of track, opposite semaphore of station (previously described).....	33 48 16.6	80 42 01.0	.....
Kingville, 200 feet east, on line of north face of station, at northwest corner of store; iron post stamped "Prim. Trav. Sta. No. 88, 1919 J".....	33 48 17.77	80 41 58.88	213
Road crossing.....	33 48 19.4	80 41 34.0	2,109
Road crossing.....	33 48 27.4	80 40 48.9	3,888
Road at McIver.....	33 48 24.7	80 39 35.5	6,200
Road crossing.....	33 48 23.7	80 39 07.2	2,390
Waterere, 90 feet east of station, 27 feet east of mail stand, center of track at road crossing; nail in tie.....	33 48 21.7	80 38 12.0	4,662
Road fork, at small bridge.....	33 48 58.6	80 38 26.6	3,919
T road west.....	33 49 32.7	80 38 31.3	3,472
Road fork.....	33 50 10.6	80 38 47.2	4,058
Crossroads.....	33 50 39.1	80 38 55.0	2,950
Center of bridge.....	33 51 06.0	80 39 03.0	2,808
Road fork.....	33 51 24.8	80 39 12.0	2,040
Acton; iron post stamped "Elev. 177" (previously described).....	33 51 55.55	80 39 12.86	3,103
Crossroads.....	33 52 38.2	80 39 26.3	4,466
Road fork.....	33 53 00.1	80 39 34.5	2,320
Road fork.....	33 53 27.8	80 39 44.5	2,917
Crossroads.....	33 54 08.9	80 40 13.8	4,838
Crossroads at store.....	33 54 18.6	80 40 22.9	1,244
Culvert pipe.....	33 54 55.9	80 39 56.4	4,392
Road fork.....	33 55 47.6	80 39 23.9	5,909
Creek crossing.....	33 56 09.8	80 39 12.1	2,455
Crossroads, on Garner's Ferry road, 1.5 miles west of ferry, northwest corner, 6 feet north of two mail boxes; iron post stamped "Prim. Trav. Sta. No. 89, 1919 J".....	33 56 35.63	80 39 19.35	2,689
Road fork at mail box.....	33 56 32.9	80 40 30.8	6,021
Crossroads at church.....	33 56 34.3	80 41 19.9	4,130
T road south, 500 feet east of Good Hope Church.....	33 56 21.4	80 42 33.4	6,327
Road fork.....	33 56 35.0	80 43 06.6	3,116
Road fork.....	33 57 10.3	80 43 33.7	4,238
Road fork.....	33 57 47.0	80 43 46.9	3,875
Crossroads.....	33 58 21.2	80 44 25.6	4,754
Road fork, opposite milepost reading "Columbia 20 miles".....	33 58 44.8	80 44 50.8	3,193
Crossroads, top of hill, at schoolhouse.....	33 59 06.1	80 44 36.5	2,471
Prim. Trav. Sta. No. 72, 1918 H (previously described).....	33 59 56.80	80 44 32.73	5,138

Magnetic declination for quadrangle, 0° 25' W.

## GEORGETOWN QUADRANGLE.

From Totten northeast along highways. (Part of checked spur line.) (By Oscar Jones in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Totten, on first salient angle of Frasers Point; iron cone under stone post (U. S. C. & G. S. station).....	33 18 46.11	79 16 29.37	.....
Road fork to Barnes Ridge.....	33 18 41.5	79 15 45.1	3,793
Creek crossing.....	33 19 48.6	79 15 12.6	2,837

## GEORGETOWN QUADRANGLE—Continued.

From Georgetown to Andrews along Georgetown &amp; Western R. R.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Georgetown, northeast corner of South Front and South Frazee streets; water hydrant.....	33	22	16.4	79	17	25.6	.....
Crossroads.....	33	22	52.2	79	18	42.2	7,441
Creek crossing.....	33	23	02.0	79	19	09.2	2,490
Road crossing.....	33	23	10.5	79	19	32.5	2,160
Road crossing.....	33	23	28.2	79	20	21.2	4,500
Road crossing.....	33	23	41.4	79	20	57.6	3,360
Point of switch.....	33	23	53.2	79	21	30.4	3,030
Creek crossing.....	33	24	08.6	79	22	24.6	4,853
Creek crossing.....	33	24	22.0	79	23	18.9	4,800
Road crossing.....	33	24	30.5	79	23	53.2	3,030
Road crossing.....	33	24	41.0	79	24	35.6	3,779
Sampit station, road crossing, 210 feet east of.....	33	25	14.3	79	26	51.6	11,985
Road crossing.....	33	25	20.9	79	27	19.0	2,415
Olin station, point of switch near.....	33	25	29.6	79	27	54.4	3,120
Road crossing at store.....	33	25	44.6	79	28	56.3	5,460
Road crossing.....	33	25	53.8	79	29	34.4	3,360

## Northeast along public roads.

Georgetown, northeast corner of South Front and South Frazee streets; water hydrant.....	33	22	16.4	79	17	25.6	.....
Crossroads.....	33	22	34.8	79	17	39.7	2,220
Road fork.....	33	23	21.6	79	17	20.3	5,005
Road fork, center of stone monument to Marion's men.....	33	24	59.6	79	17	02.9	10,015
Road fork.....	33	26	39.5	79	16	09.0	11,082
Pringle's Ferry, south bank of Black River at.....	33	27	01.2	79	15	50.5	2,694
Road fork, in front of store.....	33	27	11.4	79	15	04.1	4,058

## West along highways near north border of quadrangle.

Road fork.....	33	28	42.0	79	15	51.8	.....
Road fork.....	33	29	05.2	79	16	18.9	3,278
Skinner's Ferry, east bank of Black River at.....	33	28	54.6	79	16	29.4	1,383
Road fork.....	33	28	16.8	79	16	52.5	4,299
Well.....	33	28	43.3	79	17	31.6	4,261
Center of creek.....	33	28	16.6	79	18	36.0	6,089
Road fork.....	33	27	58.3	79	19	18.0	4,010
Road fork.....	33	28	33.5	79	20	02.3	5,169
Crossroad.....	33	29	07.2	79	20	43.9	4,900
Crossroad, church.....	33	29	16.9	79	20	55.9	1,410
Road fork.....	33	29	58.7	79	21	47.7	6,090

## South along highways in west part of quadrangle.

Road fork.....	33	29	43.2	79	24	54.6	.....
Road fork.....	33	29	19.9	79	25	14.6	2,897
Road fork.....	33	28	49.8	79	25	38.4	3,653
Iron pipe at crossroads.....	33	27	48.7	79	26	23.7	7,266
Road fork.....	33	26	46.2	79	26	18.2	6,335
Road fork.....	33	26	29.2	79	26	27.2	1,876
Railroad crossing, 210 feet east of Sampit station.....	33	25	14.3	79	26	51.6	7,849
Crossing at tramway.....	33	23	55.6	79	27	20.7	8,323
Road fork, in front of house.....	33	23	07.1	79	27	36.5	5,080
Road fork.....	33	22	38.9	79	27	16.9	3,306
Road fork.....	33	22	22.1	79	26	47.2	3,034
Road fork.....	33	21	07.1	79	27	03.8	2,070
Road fork.....	33	21	45.2	79	27	40.3	3,808
Junction with line from west.....	33	21	44.9	79	27	40.8	50
Road fork, near church.....	33	20	58.9	79	28	14.8	5,465
Northwest corner stone, at road fork.....	33	20	00.0	79	28	28.6	6,078
Road fork.....	33	19	25.1	79	28	47.5	3,873
Center of road, front of house.....	33	18	09.9	79	29	05.5	7,752
Methodist Church, road fork; iron post stamped "Prim. Trav. Sta. No. 6".....	33	17	47.6	79	29	08.6	2,270
Center of bridge over creek.....	33	17	40.7	79	28	44.9	2,121
Road fork, at mail box.....	33	17	55.1	79	27	52.1	4,717
Center of road, opposite house.....	33	17	09.0	79	26	55.7	6,683
Center of road, opposite house.....	33	16	50.2	79	26	37.6	2,441
Center of road, opposite gate.....	33	16	22.6	79	25	55.9	4,509
Center of road, opposite house.....	33	16	09.1	79	25	44.8	1,651



## GEORGETOWN QUADRANGLE—Continued.

Near center of west border of quadrangle. (By Oscar Jones in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Station 1200=625.....	33	21	44.9	79	27	40.8	
Smith's store, road forks.....	33	21	33.4	79	28	39.0	5,071

## Northeast through south part of quadrangle.

Road fork.....	33	15	49.8	79	21	48.8	
Sharp bend in road, tin sign on pine tree, east of road.....	33	16	29.5	79	21	09.2	5,235
Road fork.....	33	17	33.2	79	20	49.4	6,655
Center of road, opposite dipping vat.....	33	18	17.6	79	20	13.7	5,407
Road forks.....	33	18	53.2	79	19	39.1	4,643
Road forks.....	33	19	24.0	79	19	10.2	3,960
Station 317, stake, junction with line south.....	33	20	30.9	79	17	49.0	9,650
Three corners, road fork.....	33	20	31.8	79	17	48.6	100
Reeds Ferry, Sampit River, south end of wire cable, 5 feet north by 5 feet west is cypress tree, to which cable is anchored.....	33	21	24.2	79	17	40.8	5,335
Georgetown, northeast corner of South Frazee and South Front streets, water hydrant.....	33	22	16.4	79	17	25.6	5,428
Georgetown, Episcopal Church (U. S. C. & G. S. station).....	33	22	07.2	79	16	51.8	3,009

## North along highways in east part of quadrangle.

Crossroads.....	33	15	09.6	79	16	51.0	
Road fork.....	33	15	20.1	79	17	21.9	2,832
Creek crossing.....	33	15	52.8	79	17	37.6	3,560
Road fork, at church.....	33	16	12.3	79	17	44.8	2,070
Road fork.....	33	16	35.1	79	18	14.4	3,409
Road fork.....	33	17	53.5	79	18	13.9	7,925
Road fork.....	33	18	24.5	79	18	14.4	3,133
Road fork.....	33	19	17.8	79	17	57.6	5,672
Junction with line from Mount Pleasant to Georgetown.....	33	20	30.9	79	17	49.0	7,418

Magnetic declination for northwest corner of quadrangle, 1.4° W.; for west border, 1.5° W.; for north line through center, 1.8° W.

## GREEN POND QUADRANGLE.

Along Seaboard Air Line Ry. northeast. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Lobeco station, 500 feet west of, 60 feet east of Seabrook-Yemassee road, 25 feet south of center of railroad track, on bank about 5 feet above track; iron post stamped "Prim. Trav. Sta. No. 33, 1917 Mac." Azimuth of long railroad tangent, 248° 02'.....	32	33	08.2	80	44	37.6	
Public-road crossing.....	32	33	32.5	80	43	27.4	6,499
Second-class road crossing.....	32	33	41.7	80	43	00.2	2,505
Public-road crossing, 500 feet west of Briars station.....	32	34	10.0	80	41	37.5	7,635
Farm-road crossing.....	32	34	21.9	80	41	02.5	3,224
Wimbee Creek, center of swing span over.....	32	34	41.1	80	40	06.0	5,210
Combahee River, center of swing span over.....	32	35	28.5	80	37	47.0	12,825
Crossing of creek, straight cut channel.....	32	35	49.4	80	36	45.5	5,665
Road crossing, second class.....	32	36	24.1	80	35	03.5	9,405
Wiggins, intersection of Seaboard Air Line and Savannah Lumber Co.'s railroads.....	32	36	53.1	80	33	38.4	7,844

## Northwest along highways.

Crossing of public road and Savannah Lumber Co.'s railroad.....	32	37	22.3	80	34	23.6	
Angle of 28° between two sections of road.....	32	37	28.0	80	35	09.1	3,930
Forks of T road.....	32	37	36.4	80	35	22.5	1,430
T road west.....	32	37	54.9	80	35	25.3	1,884
Crossing of Savannah Lumber Co.'s railroad.....	32	38	04.3	80	35	29.5	1,022
Crossing of Savannah Lumber Co.'s railroad.....	32	38	30.4	80	35	49.4	3,134

## GREEN POND QUADRANGLE—Continued.

## Northwest along highways—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Forks of road, at separation of wagon tracks.....	32	38	44.4	80	36	50.0	5,368
Forks of road, at separation of wagon tracks.....	32	39	07.9	80	37	12.2	3,042
Angle of 28° between two sections of road.....	32	39	34.9	80	37	24.4	2,921
Road forks.....	32	39	57.5	80	37	48.4	3,143
T road corners, Combahee Ferry and Green Pond road runs northeast and southwest.....	32	41	11.2	80	37	56.2	7,377
Private T road along northwest fence line.....	32	40	17.3	80	38	47.9	7,010
Road forks, edge of Combahee marsh.....	32	39	37.9	80	39	36.0	5,723
Bridge over old rice canal.....	32	39	18.9	80	40	29.6	4,970
Combahee Ferry, about 900 feet west and a little north of; iron post stamped "Prim. Trav. Sta. No. 35, 1917 Mac.".....	32	39	07.0	80	41	09.8	3,644
Second-class crossroads.....	32	39	35.0	80	42	38.2	8,066
T road southwest.....	32	39	36.8	80	42	49.0	940
Second-class crossroads.....	32	39	40.8	80	44	31.7	8,791
Road fork.....	32	39	42.4	80	44	57.5	2,214

## Along Atlantic Coast Line R. R. northeast near north border of quadrangle. (By E. L. McNair in 1917.)

Road crossing.....	32	42	50.9	80	44	57.3	.....
Milepost 61.....	32	42	56.5	80	44	14.5	3,700
Harris & Cunnin's sawmill, 35 feet south and 30 feet west of road crossing at; iron post stamped "Prim. Trav. Sta. No. 5, 1917 Mac." Azimuth of long railroad tangent, 261° 15'.....	32	43	05.0	80	43	07.6	5,781
Milepost Sav. 63.....	32	43	12.4	80	42	12.3	4,785
Whitehall, road crossing at.....	32	43	18.0	80	41	29.1	3,735
Milepost Sav. 65.....	32	43	28.3	80	40	10.1	6,825
Second-class road crossing.....	32	43	33.8	80	39	27.6	3,675
Milepost Sav. 67.....	32	43	44.2	80	38	07.9	6,885
Green Pond siding, west end of switch stand.....	32	43	49.0	80	37	31.0	3,190
Green Pond station, about 600 feet west of, directly opposite water tank, 80 feet north of center of main track, in line with telegraph poles; iron post stamped "Prim. Trav. Sta. No. 6, 1917 Mac." Azimuth to semaphore post at station, 268° 19'; of tangent east, 261° 16' 15".....	32	43	53.7	80	37	00.6	2,633
Green Pond siding, road crossing.....	32	43	53.9	80	36	52.7	674
Farm-road crossing.....	32	44	04.8	80	35	29.1	7,230
Road crossing.....	32	44	12.3	80	34	30.8	5,035
Road crossing.....	32	44	15.2	80	34	09.1	1,873
Center of bridge over Ashepoo River.....	32	44	30.3	80	33	08.1	5,429
Ashepoo station, opposite east end of, 25 feet south of center of track, on bank; iron post stamped "Prim. Trav. Sta. No. 8, 1917 Mac." Azimuth of long tangent east, 252° 50'; to semaphore post 2,670 feet east, 252° 02' 45".....	32	44	31.4	80	33	03.0	455
Ashepoo siding switch stand.....	32	44	41.4	80	32	25.6	3,349

## Along Seaboard Air Line Ry. and highways in northeast part of quadrangle. (By E. L. McNair in 1917.)

Railroad intersection, Seaboard Air Line and Savannah Lumber Co.'s railroads.....	32	36	53.1	80	33	38.5	.....
Wiggins, 1,033 feet east of intersection of Seaboard Air Line and Savannah Lumber Co.'s railroads, 80 feet east of public-road crossing, 25 feet south of track center; iron post stamped "Prim. Trav. Sta. No. 34, 1917 Mac." Azimuth of railroad tangent, 248° 06' 30".....	32	36	56.6	80	33	27.2	1,033
Chehaw River, center of girder bridge over.....	32	37	11.6	80	32	43.7	4,019
Crossing of stream about 120 feet wide, center.....	32	37	29.0	80	31	52.7	4,710
Road forks.....	32	38	43.4	80	30	01.5	.....
Road forks.....	32	39	17.1	80	30	38.8	4,670
Crossing of stream close to gateway.....	32	39	43.6	80	31	19.5	4,393
Bridge over old rice canal.....	32	39	57.0	80	31	57.5	3,515
Angle of 58° in road, intersection of center lines.....	32	40	07.1	80	32	28.0	2,800
Crossing of Savannah Lumber Co.'s railroad.....	32	40	22.1	80	32	31.3	1,540
Private T road east through gate.....	32	41	48.2	80	33	24.7	9,825
Private T road east through gate.....	32	42	11.1	80	33	46.0	2,948
Second-class T road northwest.....	32	42	48.1	80	34	20.2	4,740
Crossroads.....	32	44	09.8	80	34	28.2	8,290
Green Pond station, about 2.4 miles east of, on Atlantic Coast Line R. R., at road crossing; south rail.....	32	44	12.3	80	34	30.8	342

Magnetic declination in northeast part of quadrangle, 0.2° E.

**GREEN POND QUADRANGLE**—Continued.

Near Green Pond. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fect.</i>
Green Pond, Primary Traverse Station No. 6.....	32 43 53.7	80 37 00.6	.....
Public-road crossing.....	32. 44 27.5	80 37 02.2	3,420

Magnetic declination for north border of quadrangle, 0° 15' W. to 0° 18' E.; along Seaboard Air Line Ry. in south half, 0° 43' W. to 0° 38' E.; along highways in center of northeast quarter, 0° 27' E. to 0° 34' W.; along highways near south border of north half, 0° 14' E.

**GREENS CUT QUADRANGLE.**

Southeast along Southern Ry. in extreme northeast corner of quadrangle. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fect.</i>
Road crossing.....	33 14 36.2	81 45 21.8	.....
Upper Three Runs Creek, pile bridge over.....	33 14 13.8	81 45 02.1	2,820

Near northeast corner of quadrangle. (By B. H. Yoakum in 1918.)

Road forks.....	33 12 10.3	81 45 02.6	.....
Flowery Gap Landing, U. S. Corps of Engineers b. m. No. 19...	33 11 47.5	81 45 24.1	2,942

**GUIDE QUADRANGLE.**

Along highways near southwest corner of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fect.</i>
Forks of road.....	34 00 45.5	78 44 10.2	.....
Forks of road.....	34 00 44.7	78 44 35.0	2,092
Graham store, 2 feet south of fence, in northeast corner of cross-roads; iron post stamped "Prim. Trav. Sta. No. 30 J, 1918".....	34 00 56.3	78 44 49.9	1,719

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

**HAGOOD QUADRANGLE.**

(By Oscar Jones in 1918.)

For other positions in Hagood quadrangle, see Camp Jackson.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fect.</i>
Statesburg, 3.5 miles north of, on west side of Statesburg-Camden road, in line with T road east, 1,270 feet north of road forks: iron post stamped "Prim. Trav. Sta. No. 53 J, 1918".....	34 00 23.2	80 32 24.9	.....

Magnetic declination for southeast corner of quadrangle, 00° 47' W.

## HARDEEVILLE QUADRANGLE.

Northwest along Atlantic Coast Line R. R. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Parysburg switch stand at south end of siding.....	32	15	09.0	81	07	00.2	6, 570
Parysburg, road crossing at.....	32	15	33.0	81	06	26.9	3, 750
Road crossing.....	32	16	42.3	81	05	19.0	9, 115
Hardeeville station, about 800 feet south from, 30 feet north and 60 feet west from Main Street crossing, in open ground; iron post stamped "Prim. Trav. Sta. No. 1, 1917 Mac.".....	32	17	15.4	81	04	54.8	3, 936
Road crossing.....	32	18	38.7	81	03	55.2	9, 844
Milepost Sav. 26.....	32	19	26.1	81	03	32.3	5, 190
Milepost Sav. 27.....	32	20	14.5	81	03	09.0	5, 280
Milepost Sav. 28.....	32	21	03.0	81	02	45.6	5, 290
Milepost Sav. 29.....	32	21	51.4	81	02	22.2	5, 290
Terbee siding, switch stand at south end of.....	32	22	47.0	81	01	55.3	6, 065
Terbee siding, switch stand at north end of.....	32	23	18.6	81	01	40.1	3, 450
Road crossing.....	32	23	52.1	81	01	23.9	3, 665
Milepost Sav. 32.....	32	24	16.7	81	01	12.0	2, 685
Road crossing, milepost 33.....	32	25	04.7	81	00	48.8	5, 235
Road crossing, at Switzerland post office.....	32	25	40.3	81	00	31.6	3, 890
Okeetee Club house, road crossing.....	32	25	55.4	81	00	24.2	1, 655
Okeetee siding, switch stand at north end of.....	32	26	35.8	81	00	04.7	4, 405

Southeast along highways near north border of quadrangle. (By H. S. Senseney in 1918.)

Crossroads near abandoned cabin.....	32	29	55.3	81	11	54.6	.....
Road fork at blazed pine tree.....	32	29	25.8	81	11	04.8	5, 198
Gate in center of road.....	32	29	17.6	81	10	43.2	2, 028
Center of road, between two blazed pine trees.....	32	29	20.6	81	10	13.0	2, 604
Tillman, 3.75 miles west of, 70 feet east of gate to N. Wallace's hunting lodge, at fence corner; iron post stamped "Prim. Trav. Sta. No. 3 S., 1918".....	32	29	11.9	81	09	50.1	2, 147
West end of bridge.....	32	29	01.5	81	09	27.8	2, 177
Center of road, at large blazed pine tree.....	32	28	33.6	81	08	49.6	4, 320
Small bridges, the more westerly of two, 715 feet east of road fork.....	32	28	12.3	81	08	05.3	4, 361
Old road south.....	32	28	00.8	81	07	38.7	2, 555
Road fork.....	32	27	49.6	81	06	54.7	3, 934
Tillman, railroad crossing at Jandon's store.....	32	27	47.9	81	06	25.1	2, 540
T road south.....	32	27	46.6	81	06	01.6	2, 020
Lane north.....	32	27	45.5	81	05	42.2	1, 660
Lane north.....	32	27	43.9	81	05	15.0	2, 335
Road forks at A. Kennedy's mail box.....	32	27	39.7	81	03	59.9	6, 449
Road north at church.....	32	27	39.0	81	03	37.7	1, 904
Lane north of two mail boxes.....	32	27	44.7	81	02	42.4	4, 770
Old road north at two mail boxes.....	32	27	49.4	81	01	58.5	3, 795
T road north.....	32	27	51.0	81	01	42.2	1, 410
Crossroads, road south through gate.....	32	27	57.3	81	00	42.6	5, 140
Crossroads.....	32	27	59.6	81	00	19.5	1, 990
Road fork.....	32	28	31.0	81	00	00.3	3, 569

Magnetic declination for north border of quadrangle, 0.1° E.

Near southeast corner of quadrangle. (By H. S. Senseney in 1918.)

Lane through gate.....	32	15	26.4	81	02	00.4	.....
Second-class road north at blazed pine tree.....	32	15	39.1	81	02	56.0	4, 949
Road forks.....	32	15	59.3	81	03	34.0	3, 847
Lane to house.....	32	16	42.4	81	04	14.4	5, 569
T road south.....	32	17	00.4	81	04	36.2	2, 610
Prim. Trav. Sta. No. 1, 1917 Mac. (previously described).....	32	17	15.41	81	04	54.80	2, 200

Magnetic declination near southeast corner of quadrangle, 0° 14' E.

## HOPKINS QUADRANGLE.

For other positions in this quadrangle see Camp Jackson.

From Cameron northwest along State road to Columbia. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Fect.
Beaver Creek, center of bridge over.....	33	45	08.1	80	54	05.9	.....
Center of bridge.....	33	45	34.1	80	54	51.5	4,657
Center of road, opposite concrete culvert on east side of road, at milepost 12.....	33	46	20.0	80	55	28.8	5,605
Road fork, 50 feet south of milepost 13.....	33	47	03.6	80	55	59.2	5,104
Crossroads.....	33	47	23.6	80	56	42.2	4,151
Red Store, in southeast corner of road fork; iron post stamped "Prim. Trav. Sta. No. 82, 1919 J".....	33	47	54.56	80	57	43.14	6,019
Road fork.....	33	48	33.1	80	58	33.1	5,744
Crossroads at church.....	33	48	50.3	80	58	46.7	2,080
Crossroads at G. Muller's mail box.....	33	49	58.0	80	59	40.0	8,188
Southwest corner of crossroads; iron post stamped "Elev. 228".....	33	50	20.49	80	59	59.86	2,725

## North along public road to the Red Store.

Road fork at house.....	33	45	14.8	80	57	44.7	.....
Crossroads.....	33	45	39.8	80	57	55.3	2,681
Crossroads.....	33	46	32.7	80	58	05.8	5,419
Road fork.....	33	47	22.8	80	57	42.4	5,438
Red Store "Prim. Trav. Sta. No. 82, 1919 J" (previously described).....	33	47	54.56	80	57	43.14	3,207

## From east border of quadrangle northwest along Southern Ry. to Columbia.

Road crossing.....	33	50	19.9	80	45	18.9	.....
Gadsden, 500 feet north of station, at road crossing, west side of track, south side of road, 5 feet north of crossing sign; iron post stamped "Prim. Trav. Sta. No. 85, 1919 J".....	33	50	45.00	80	46	04.34	4,591
T road north.....	33	50	47.9	80	47	06.1	5,213
Road fork south at store.....	33	50	43.7	80	47	42.3	3,078
Road fork south.....	33	50	43.3	80	48	38.5	4,745
Center of bridge.....	33	50	42.7	80	48	55.2	1,405
Road fork north.....	33	50	38.7	80	49	40.5	3,834
Center of bridge.....	33	50	29.4	80	50	15.6	3,107
Center of road opposite granite milepost marked "Columbia 16 miles," near red gin.....	33	50	28.1	80	51	06.6	4,305
Center of bridge over creek.....	33	50	24.6	80	51	37.0	2,584
Center of road, opposite mail box at road fork south.....	33	51	03.1	80	52	25.3	5,631
Road fork.....	33	51	32.9	80	52	43.1	3,359
Tramroad crossing.....	33	52	11.9	80	53	37.8	6,073
Road fork.....	33	52	23.7	80	53	52.8	1,730
Road fork.....	33	52	55.6	80	54	36.5	4,897
Columbia, 10 miles southeast of, on Bluff Road, at church, on north side of road, 6 feet from southwest corner; iron post stamped "Prim. Trav. Sta. No. 86, 1919 J".....	33	53	42.72	80	55	03.00	5,257
T road at schoolhouse.....	33	54	22.6	80	55	52.7	5,810
Center of bridge at mill.....	33	54	56.4	80	57	02.1	6,775
Center of concrete bridge.....	33	55	21.4	80	57	26.6	3,260
Concrete bridge.....	33	55	56.3	80	58	09.9	5,071
Columbia, 6 miles southeast of, on Bluff Road, at road fork to Simms, southwest corner, 1 foot east of milepost 6; iron post stamped "Prim. Trav. Sta. No. 87, 1919 J".....	33	56	17.07	80	58	49.20	3,919
East end of steel bridge.....	33	56	48.4	80	59	18.4	4,013
Road fork.....	33	57	12.9	80	59	31.5	2,709
Center of concrete bridge.....	33	57	23.6	80	59	52.7	2,086

## From Congaree north along public road.

Congaree, "Prim. Trav. Sta. No. 59" (previously described).....	33	54	29.76	80	47	56.20	.....
Center of road, opposite house, at angle in road.....	33	54	47.8	80	47	12.8	4,096
Crossroads.....	33	55	29.1	80	46	50.9	4,570
Road fork.....	33	55	54.2	80	46	37.8	2,780
Road fork at schoolhouse, opposite milepost, marked "Columbia 17 miles".....	33	56	33.9	80	46	25.0	4,154
Crossroads.....	33	56	40.9	80	45	51.0	2,955
Road fork.....	33	57	18.7	80	45	30.7	4,190
Center of bridge.....	33	57	26.2	80	45	18.2	1,306
Center of bridge.....	33	58	00.5	80	45	00.6	3,779

Magnetic declination for quadrangle, 0° 20' W.

## HYMAN QUADRANGLE.

North along Atlantic Coast Line R. R. and east along highways near north border of quadrangle.  
(By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Fect.
Road crossing.....	33	53	19.2	79	44	56.1	.....
Road crossing.....	33	53	48.7	79	44	46.2	3,100
Seranton, road crossing.....	33	55	00.8	79	44	39.5	7,305
Center of track, at tool house.....	33	55	39.6	79	44	42.0	3,930
Road crossing.....	33	56	13.2	79	44	44.2	3,400
Milepost 84.....	33	56	40.1	79	44	45.9	2,720
Center of track, opposite switch stand.....	33	57	43.4	79	44	49.9	6,400
Coward station, 200 feet southeast of, 30 feet west of track, 50 feet north of crossing sign; iron post stamped "Prim. Trav. Sta. No. 4 J, 1918".....	33	58	10.7	79	44	51.9	2,771
Road fork.....	33	58	04.2	79	44	15.8	3,109
Road fork.....	33	57	55.1	79	43	54.3	2,039
Crossroads.....	33	57	53.5	79	43	25.0	2,469
Center of bridge.....	33	57	51.0	79	43	00.4	2,087
Center of bridge.....	33	58	04.6	79	42	21.9	3,528
Crossroads.....	33	57	53.8	79	41	40.4	3,539
West end of trestle.....	33	58	24.2	79	41	03.7	4,022
East end of bridge over Lynch River.....	33	58	29.7	79	40	53.4	1,028
Crossroads at store.....	33	58	53.2	79	40	20.4	3,653
Road fork.....	33	58	34.5	79	40	00.7	2,519
Center of road, opposite house.....	33	58	56.2	79	38	36.3	7,440
Road fork to house.....	33	59	14.5	79	37	25.3	6,260
Road fork, at church.....	33	59	34.1	79	36	08.6	6,750
Hyman, T road west, near store.....	33	59	39.6	79	35	47.6	1,860
Center of bridge, east one of two.....	33	59	48.1	79	35	14.8	2,890
Road fork.....	33	59	48.4	79	34	47.5	2,300
Pamplico, about 1,000 feet south of depot, 50 feet west of Sea- board Air Line Ry., on south side of public road; iron post stamped "Prim. Trav. Sta. No. 6 J, 1918".....	33	59	37.7	79	33	48.0	5,123
Center of road, old store on north, tobacco barn on south.....	33	59	26.5	79	32	54.7	4,637
Road fork.....	33	59	19.7	79	32	16.2	3,310
Forrest Hill School, fork of River Road and Pamplico Road.....	33	59	10.7	79	31	28.4	4,128
Center of concrete bridge.....	33	58	37.6	79	31	25.1	3,361
Crossroads.....	33	58	05.0	79	31	05.5	3,681
Crossroads, at store.....	33	57	48.4	79	30	50.6	2,099
Road fork.....	33	57	12.5	79	30	26.0	4,178
Center of bridge.....	33	56	43.0	79	30	06.8	3,394

Magnetic declination along north border of quadrangle, 1° 33' W.

East along public road near south border of quadrangle. (By Oscar Jones in 1918.)

Road fork.....	33	46	39.1	79	44	52.4	.....
Road fork.....	33	46	30.1	79	44	21.4	2,770
Center of more westerly of two bridges.....	33	46	17.1	79	43	36.8	3,888
Crossroads.....	33	46	17.2	79	43	08.2	2,413
Crossroads, at 5-mile post.....	33	46	11.3	79	42	15.9	4,457
Road fork.....	33	46	04.2	79	41	44.7	2,729
Two-story white school, center of road opposite.....	33	45	41.8	79	40	21.8	7,357
Crossroad.....	33	45	26.3	79	39	52.0	2,960
White schoolhouse, center of road opposite.....	33	45	08.8	79	39	02.0	4,579

Along highways through center of quadrangle.

Road fork.....	33	52	47.9	79	44	51.0	.....
Road fork near church.....	33	52	36.4	79	43	24.8	7,356
Center of the most easterly of three bridges.....	33	52	26.1	79	42	28.2	4,887
T road south.....	33	51	51.0	79	41	24.4	6,440
Lees crossroads, intersection of roads.....	33	52	13.8	79	39	57.4	7,691
Road fork at old store.....	33	51	22.3	79	39	38.5	5,446
White Church, center of road opposite.....	33	51	38.1	79	38	35.1	5,575
Road fork.....	33	51	40.8	79	37	52.0	3,644
Smith bridge over Lynch River, 2 miles southwest of, in a triangular grass plot at road fork; iron post stamped "Prim. Trav. Sta. No. 38".....	33	51	12.6	79	36	51.9	5,818
South end of bridge.....	33	52	02.1	79	36	09.1	6,168
Smith bridge over Lynch River, north end of bridge.....	33	52	13.8	79	35	46.2	2,262
Hannah post office, 100 feet west of store at road fork.....	33	52	56.7	79	34	53.4	6,215
Road fork.....	33	52	59.1	79	34	41.0	1,072
Center of bridge.....	33	53	00.1	79	33	57.9	3,636
T road south.....	33	53	21.9	79	32	52.1	5,968
Road fork.....	33	53	24.0	79	32	14.0	3,214
West end of bridge.....	33	53	22.5	79	31	44.2	2,767
Road fork.....	33	53	02.2	79	31	13.1	1,822
Salem, crossroad.....	33	53	12.8	79	30	45.6	2,550

## HYMAN QUADRANGLE—Continued.

East along highways near north border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Trestle, center of .....	33 59 49.6	79 44 57.9	.....
Trestle, center of .....	33 59 22.7	79 44 56.2	2,730
Road crossing .....	33 58 49.8	79 44 54.1	3,331
Coward, "Prim. Trav. Sta. No. 4" (previously described) .....	33 58 10.7	79 44 51.9	3,955

Magnetic declination for south border of quadrangle, 1° 29' W.; for center, 1° 23' W.; for west border, 1° 28' W.

## INDIANTOWN QUADRANGLE.

East along Georgetown road to center of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Center of road, opposite 7-mile post .....	33 37 04.4	79 43 43.6	.....
Center of small bridge .....	33 36 59.9	79 43 25.8	1,570
Road fork .....	33 36 49.3	79 42 48.7	3,314
White Church, 100 feet southwest of, at northeast corner of cross-roads; iron post stamped "Prim. Trav. Sta. No. 5 J, 1918" ..	33 36 20.8	79 42 03.3	4,801
Center of road, opposite schoolhouse .....	33 35 52.5	79 41 18.5	4,750
Center of culvert .....	33 35 41.2	79 41 00.8	1,878
Road fork .....	33 35 25.4	79 40 47.6	1,909
Center of small bridge .....	33 35 19.9	79 40 27.5	1,787
Center of bridge .....	33 34 54.7	79 39 50.1	4,061
St. Mathews Church, road fork in front of .....	33 34 23.3	79 38 49.0	6,065
Center of small bridge .....	33 34 20.0	79 38 14.0	2,980
Center of bridge .....	33 34 12.0	79 37 33.1	3,550
Center of bridge .....	33 33 53.0	79 37 04.9	3,064
Center of bridge .....	33 33 39.0	79 36 57.0	1,572
Center of road, opposite schoolhouse .....	33 33 16.0	79 36 35.0	2,974
Road fork .....	33 33 00.8	79 36 23.1	1,840
Center of bridge, the east one of two .....	33 32 38.2	79 36 15.5	2,373
Bloomington post office, 600 feet east of, T road north .....	33 32 02.6	79 35 36.6	4,876
Road fork .....	33 31 44.5	79 35 21.4	2,247
Road fork .....	33 31 22.3	79 35 00.9	2,840
Center of bridge .....	33 31 08.7	79 34 33.5	2,702
Center of bridge .....	33 30 54.2	79 34 03.4	2,430
Center of bridge over creek .....	33 30 35.4	79 33 29.0	3,486
Warsaw, center of Seaboard Air Line Ry., 200 feet south of depot, 90 feet north of road crossing, nail in tie .....	33 30 29.4	79 33 00.0	2,526
Road fork .....	33 30 05.6	79 32 47.8	2,617

South along highways in southeast corner of quadrangle.

Road fork at mail boxes .....	33 30 30.0	79 30 48.4	.....
Road fork at church .....	33 30 10.4	79 31 29.1	3,970

Magnetic declination for southeast part of quadrangle, 1° 52' W.

South along public highways.

White Church, 100 feet southwest of, northeast corner of cross-roads; iron post stamped "Prim. Trav. Sta. No. 5 J, 1918" ..	33 36 20.8	79 42 03.3	.....
Road fork .....	33 36 04.0	79 42 33.5	3,077
Road fork .....	33 35 28.4	79 42 40.6	3,765
Road fork at store .....	33 35 13.8	79 43 24.5	3,536
Center of bridge .....	33 34 52.8	79 42 59.6	2,991
Road fork .....	33 34 31.0	79 42 53.0	2,274
Road fork .....	33 33 38.5	79 42 36.4	5,488
Black River, south end of bridge over .....	33 33 20.1	79 42 25.0	2,090
T road north .....	33 32 17.8	79 42 40.6	6,442
T road south .....	33 32 17.8	79 43 50.7	5,940
Center of bridge .....	33 31 54.1	79 43 47.4	2,411
Center of bridge .....	33 31 12.0	79 43 35.6	4,366
Gate across road .....	33 30 44.8	79 43 26.8	2,852
Road fork .....	33 30 15.4	79 43 32.8	3,012

Magnetic declination south along public highways, 1° 09' W.

## INDIANTOWN QUADRANGLE—Continued.

East along public roads near north border of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Center of bridge.....	33	44	58.6	79	37	57.5	.....
Road fork.....	33	44	52.0	79	37	15.6	3,600
Center of bridge.....	33	44	34.3	79	36	24.3	4,686
Cooper's crossroads, at northwest corner, 5 feet northeast of culvert; iron post stamped "Prim. Trav. Sta. No. 37".....	33	44	21.9	79	35	52.9	2,929
Road fork.....	33	44	04.7	79	35	12.3	3,844
Road fork.....	33	43	43.0	79	34	19.6	4,958
Indiantown Church, road fork, 200 feet east of.....	33	43	27.6	79	33	36.2	3,980
Center of bridge, the east one of three.....	33	42	38.2	79	32	13.9	8,558
Road fork.....	33	42	11.7	79	31	42.0	3,801
Center of bridge.....	33	41	30.7	79	30	33.4	7,120

South along Seaboard Air Line Ry. near east border of quadrangle.

North end of trestle.....	33	40	18.7	79	30	29.5	.....
North end of trestle.....	33	40	08.5	79	30	34.4	1,120
Nesmith, 90 feet northeast of depot, north side of public road, 15 feet east of center of track, 2 feet west of crossing sign; iron post stamped "Prim. Trav. Sta. No. 43".....	33	39	27.0	79	30	54.5	4,527
North end of trestle.....	33	38	54.3	79	31	10.5	3,569
Switch stand, at spur track east, center of track opposite.....	33	38	17.9	79	31	28.3	3,980
Morrisville, road crossing.....	33	36	25.9	79	32	22.2	1,220
Road crossing.....	33	35	36.7	79	32	28.2	4,993
Road crossing.....	33	34	47.8	79	32	33.2	4,969
A. C. Lumber Co., spur track west.....	33	34	31.0	79	32	34.9	1,699
Road crossing.....	33	33	32.2	79	32	41.1	5,970
Center of trestle.....	33	33	01.2	79	32	44.3	3,140
Road crossing.....	33	32	32.4	79	32	47.3	2,930
Road crossing, second class.....	33	31	42.8	79	32	52.4	5,030
Road crossing, second class.....	33	31	13.1	79	32	55.5	3,019
Warsaw, center of track, 200 feet south of depot, 90 feet north of road crossing.....	33	30	29.4	79	33	00.0	4,437

Magnetic declination for north border of quadrangle, 1° 29' W.

From post 5 north to Kingstree. (By Oscar Jones in 1918-19.)

Prim. Trav. Sta. No. 5 (previously described).....	33	36	20.85	79	42	03.27	.....
Road fork southwest.....	33	37	03.2	79	42	05.0	4,288
Crossroads.....	33	37	36.2	79	42	01.2	3,351
Road fork.....	33	38	10.0	79	41	50.7	3,530
Road fork.....	33	38	46.9	79	41	13.6	4,870
T road south, at Grayson store.....	33	39	23.9	79	40	42.4	4,584
T road north, at old storehouse.....	33	39	39.1	79	41	28.7	4,209
T road south, in front of house.....	33	40	29.1	79	41	15.9	5,163
Road fork.....	33	41	07.7	79	41	13.2	3,916
Road fork.....	33	41	35.0	79	41	33.8	3,262
T road south, near Cooper Bros. store.....	33	42	10.7	79	41	40.3	3,646
Center of road, opposite church.....	33	42	03.6	79	42	47.1	5,689
Road fork, at angle in road.....	33	41	54.4	79	43	44.4	4,931
Road fork at store.....	33	41	38.3	79	44	21.1	3,500
Center of bridge.....	33	41	27.4	79	44	47.0	2,451

Magnetic declination near west border of quadrangle, 1° 21' W.

## JAMES ISLAND 7½" QUADRANGLE.

Along highways in northern part of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Center of Ellis Bridge.....	32	44	42.1	79	58	11.2	.....
Angle of 48° between two straight stretches of road.....	32	44	16.9	79	57	59.4	2,732
T road north.....	32	44	03.0	79	58	08.2	1,593
Crossroads.....	32	43	47.3	79	57	22.6	4,211
Crossroads.....	32	43	38.3	79	56	54.0	2,599
Angle of 26° in road, center line both ways.....	32	43	48.6	79	56	01.7	4,579
Crossroads.....	32	44	26.8	79	54	57.4	6,713



## KILLIAN QUADRANGLE.

For positions in Killian quadrangle see Camp Jackson.

## KINGSTREE QUADRANGLE.

Northeast along railroad to Lane, thence southeast to Andrews. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Second-class road crossing.....	33 30 00.6	79 53 16.7	-----
Lane station, 250 feet south of, 50 feet east of center of road bed, 20 feet north and 50 feet east of public-road crossing, directly in front of Lanes Hotel; iron post stamped "Prim. Trav. Sta. No. 21, 1917 Mac." Azimuth to semaphore post, 20° 20' 45".....	33 31 10.7	79 52 50.6	7,422
Second-class road crossing, at colored church.....	33 31 19.7	79 52 17.3	2,965
Switch stand at east leg of Y.....	33 31 13.4	79 57 50.5	2,350
Opposite milepost Geo. 33.....	33 30 47.5	79 50 01.3	9,609
Public-road crossing at switch stand.....	33 30 43.7	79 49 45.0	1,430
Milepost Geo. 32.....	33 30 32.8	79 48 59.9	4,045
Farm-road crossing.....	33 30 16.6	79 47 51.1	5,985
Taft station, road crossing at.....	33 30 03.2	79 46 54.6	4,970

## Northeast along Atlantic Coast Line R. R. (By Oscar Jones in 1918.)

Lane, "Prim. Trav. Sta. No. 21, 1917 Mac." (previously described).....	33 31 10.7	79 52 50.6	-----
Center of small trestle.....	33 31 48.3	79 52 37.7	3,057
Road crossing.....	33 32 09.4	79 52 30.0	2,230
Center of small trestle.....	33 32 37.0	79 52 20.0	2,910
Road crossing.....	33 32 50.5	79 52 15.1	1,430
Road crossing.....	33 33 58.0	79 51 50.7	7,130
Road crossing.....	33 34 35.3	79 51 37.2	3,940
Salters station, road crossing.....	33 35 44.2	79 51 12.2	7,270
South end of trestle.....	33 36 55.0	79 50 46.4	7,490
South end of trestle.....	33 38 01.3	79 50 22.4	7,000
South end of trestle over Black River.....	33 38 50.7	79 50 04.4	5,220
North end of trestle over Black River.....	33 39 07.3	79 49 58.4	1,750
Kingtree, 100 feet north of depot, west side of track, south side of street, 2 feet west of U. S. mail box; iron post stamped "Prim. Trav. Sta. No. 1 J, 1918".....	33 39 49.6	79 49 43.4	4,462
Road crossing.....	33 40 56.6	79 49 18.7	7,088
Road crossing.....	33 42 00.8	79 48 55.4	6,780
Road crossing.....	33 42 54.7	79 48 35.8	5,690
Road crossing.....	33 43 18.7	79 48 27.0	2,540
Brockington station, road crossing at.....	33 43 51.5	79 48 15.1	3,460
Road crossing.....	33 44 48.2	79 47 54.4	5,990

Magnetic declination northeast along Atlantic Coast Line R. R., 1° 44' W.

## East along Georgetown road. (By Oscar Jones in 1918.)

Kingtree, Prim. Trav. Sta. No. 1 J, 1918 (previously described).....	33 39 49.6	79 49 43.4	-----
Crossroads.....	33 39 40.9	79 49 04.2	3,431
Center of road, opposite white house on south side of road.....	33 39 08.5	79 48 05.7	5,932
Road fork.....	33 38 34.8	79 46 57.6	6,685
Road fork, at Nixon store.....	33 38 26.1	79 46 25.7	2,840
Road fork.....	33 38 23.3	79 46 14.3	1,000
Center of culvert.....	33 37 52.4	79 45 13.2	6,038

Magnetic declination along Georgetown road, 1° 17' W.

## Along public highways from Lane to Kingtree. (By Oscar Jones in 1918.)

Lane station, Prim. Trav. Sta. No. 21, 1917, Mac (previously described).....	33 31 10.7	79 52 50.6	-----
Center of bridge.....	33 31 19.0	79 53 10.7	1,898
Road fork.....	33 31 30.0	79 53 59.3	2,679
Road fork.....	33 31 15.7	79 54 02.3	2,410
Center of bridge.....	33 30 58.9	79 54 29.1	2,830
Road fork south.....	33 30 41.4	79 54 57.1	2,960
Road fork.....	33 30 05.0	79 55 55.3	6,143
Gin, at road fork.....	33 30 46.6	79 56 35.1	5,394
Center of bridge.....	33 31 05.3	79 57 00.2	2,839
Crossroads.....	33 31 19.4	79 57 28.6	2,800
Center of bridge.....	33 31 31.2	79 57 58.3	2,787
Road fork at store.....	33 31 35.3	79 58 18.0	1,720
Road fork.....	33 32 16.9	79 58 51.9	5,086

## KINGSTREE QUADRANGLE—Continued.

Along public highways from Lane to Kingstree—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Graveyard, crossroads at.....	33	32	30.2	79	59	01.6	1,577
Road fork through gate.....	33	33	33.1	79	59	20.8	6,560
Road fork.....	33	34	06.6	79	59	20.4	3,394
Greelyville, 70 feet south of depot, 20 feet south of track, 2 feet east of crossing sign; iron post stamped "Prim. Trav. Sta. No. 35 J, 1918".....	33	34	56.9	79	59	18.7	5,080
Crossroads.....	33	35	43.8	79	58	36.5	5,940
Center of bridge, the north one of two.....	33	36	07.0	79	58	10.1	3,237
T road south near gin.....	33	36	24.6	79	57	21.8	4,460
Road fork, 100 feet southeast of store.....	33	37	05.1	79	57	53.2	4,881
Sawmill, road fork.....	33	37	33.3	79	57	24.8	3,730
Road fork, through gate at well.....	33	38	16.2	79	57	03.5	4,697
Road fork at store.....	33	38	38.9	79	56	51.2	2,520
Road fork.....	33	39	00.3	79	57	43.8	4,946
Crossroads.....	33	39	01.4	79	58	03.6	1,682
Crossroads at schoolhouse.....	33	38	53.8	79	59	18.9	6,409
Road fork to house.....	33	39	49.2	79	58	57.6	5,878
Road fork, through gate.....	33	40	14.7	79	58	39.2	3,014
Center of culvert.....	33	40	59.2	79	58	00.4	5,569
Center of bridge.....	33	41	32.9	79	57	31.0	4,215
Martin's crossroads, northeast corner of; iron post stamped "Prim Trav. Sta. No. 36 J, 1918".....	33	41	58.6	79	57	28.2	2,609
Road fork.....	33	41	57.8	79	56	56.5	2,679
Road fork, through gate.....	33	41	55.8	79	56	05.0	4,353
Road fork at bridge.....	33	41	50.9	79	55	45.4	1,729
Center of bridge.....	33	41	26.4	79	54	47.1	5,512
Center of bridge.....	33	40	54.5	79	54	11.1	4,430
Road fork to house.....	33	40	27.0	79	53	40.0	3,820
Road fork.....	33	39	58.7	79	53	07.7	3,961
Road fork.....	33	39	27.6	79	51	44.8	7,676
Road fork.....	33	39	21.4	79	51	00.4	3,812
Center of bridge.....	33	39	25.6	79	50	29.4	2,656
Black River, west abutment of steel bridge over.....	33	39	43.5	79	50	11.0	2,382
Kingstree Prim. Trav. Sta. No. 1 J, 1918 (previously described).....	33	39	49.6	79	49	43.4	2,409

## Unchecked spur line south along highways.

Crossroads (previously described).....	33	31	19.4	79	57	28.6	.....
Gate across road.....	33	30	40.1	79	58	00.2	4,790

## Northeast along highways to Cades.

Martin's crossroads, iron post No. 36 (previously described).....	33	41	58.6	79	57	28.2	.....
Road fork.....	33	42	45.3	79	57	04.4	5,131
Road fork.....	33	43	11.6	79	56	25.6	4,225
Road fork.....	33	43	24.7	79	56	04.9	2,197
Black River, north end of bridge over.....	33	43	44.1	79	55	51.6	2,259
Joye store, road fork, 150 feet west of.....	33	44	03.0	79	55	42.8	2,047
Road fork.....	33	44	37.0	79	55	57.3	3,648

Magnetic declination northeast along highways to Cades, 1° 07' W.

## Southeast along highway. (By Oscar Jones in 1918.)

Center of road, opposite gin house.....	33	44	31.2	79	59	22.4	.....
Road forks.....	33	44	25.4	79	58	57.2	2,210
Crossroads, at Workman.....	33	44	03.2	79	58	02.7	5,127
Center of bridge.....	33	43	48.8	79	57	39.6	2,438
Center of bridge.....	33	43	36.8	79	56	48.8	4,456
Center of bridge.....	33	43	46.8	79	56	27.3	2,080

## East to Greelyville.

T road north.....	33	33	50.6	79	59	47.3	.....
Crossroad, at Flowing Well.....	33	34	35.5	79	59	43.6	4,553
Greelyville, Prim. Trav. Sta. No. 35 (previously described).....	33	34	56.87	79	59	18.73	3,015

Magnetic declination for west part of quadrangle, 0° 50' W.

**KINGSTREE QUADRANGLE—Continued.**

From post 5 north to Kingtree.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road fork.....	33	41	06.8	79	45	30.7	.....
Road fork.....	33	40	45.2	79	46	38.9	6, 164
T road north at schoolhouse.....	33	40	31.0	79	47	31.3	4, 658
T road south.....	33	40	09.5	79	48	26.7	5, 164
T road south at graveyard.....	33	39	59.8	79	49	03.0	3, 216
Kingtree, Prim. Trav. Sta. No. 1 (previously described).....	33	39	49.6	79	49	43.4	3, 572

Magnetic declination for east border of quadrangle, 1° 16' W.

**LEXINGTON QUADRANGLE.**

South near west border of quadrangle. (By E. L. McNair in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Southern Ry., crossing on.....	33	50	58.6	81	29	45.8	.....
Crossroads, near Mims flag station.....	33	50	44.2	81	29	35.6	1, 694
Public-road crossing of Southern Ry. (line follows railroad from here).....	33	50	28.7	81	29	23.1	1, 889
Road crossing of Southern Ry.....	33	50	08.9	81	29	08.3	2, 359
Road crossing, first one south of Hall flag station.....	33	49	55.5	81	28	54.8	1, 765
Public-road crossing.....	33	49	47.5	81	28	49.4	938
Samaria, about 40 feet southeast of road crossing, 2.5 feet south of corner fence post of yard fence, residence of W. Westmoreland, 20 feet east from center of track; iron post stamped "Prim. Trav. Sta. No. 11, 1919, Mac." Azimuth to milepost 7, 700 feet distant (sighted center of bolt), 149° 05' 20"; to top of crossing sign post, 0.4 mile distant, 151° 42' 20".....	33	49	31.8	81	28	38.9	1, 823
Crossroad.....	33	48	36.0	81	28	04.3	6, 348
Nail in root of cedar tree, at corner of vacant house.....	33	48	32.8	81	28	17.0	1, 124
Forks of road, about 65 feet south of mail box.....	33	48	14.8	81	29	01.1	4, 138
Crossing of North Fork of Edisto River, center of.....	33	48	06.2	81	29	00.8	864
Forks of road, point is 165 feet S. 28° W. from T road corner.....	33	48	05.8	81	29	56.6	4, 703

Magnetic declination along west border of quadrangle, 00° 14' E.

North across southeast corner of quadrangle. (By E. L. McNair in 1919.)

Creek crossing, center of.....	33	45	08.4	81	15	11.8	.....
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From Pellon north along roads to Lexington.

Crossroads.....	33	46	04.3	81	15	15.7	.....
In root of 10-inch blazed oak tree, 10 feet northeast of road; wire nail and copper washer.....	33	46	42.7	81	15	43.0	4, 511
Second-class crossroad.....	33	47	11.9	81	16	15.5	4, 026
Second-class T road west, at mail box, 560 feet south of forks of road; iron post stamped "Elev. 424".....	33	47	31.45	81	16	21.30	2, 034
Forks of road, about 400 feet south of another fork.....	33	47	55.6	81	16	14.0	2, 523
Pellon, 4.5 miles northwest of, 25 feet north of dim crossroad, a broad road leading N. 55° W. and S. 55° E.; iron post stamped "Elev. 442." Azimuth to copper nail in stump, distance 530.5 feet, 121° 41' 11".....	33	48	13.54	81	16	22.24	1, 937
Center of crossroads, southeast of Florence Church.....	33	48	35.4	81	16	44.1	2, 871
Pellon, 5.6 miles northwest of, 195 feet east of Florence Church, on eastside of road to Lexington, at southwest corner of garden fence; iron post stamped "Prim. Trav. Sta. No. 14, 1919 S." Azimuth to large double-column tombstone in cemetery, 200 feet distant, 50° 34' 26"; to nail and copper washer in root of large pine tree, 365 feet distant, 85° 51' 56".....	33	49	05.09	81	16	53.82	3, 113
Center of road crossing, 0.6 mile northwest of Florence Church.....	33	49	30.7	81	17	14.7	3, 122
Fork of road.....	33	50	10.3	81	17	07.8	4, 045
Road fork.....	33	51	07.3	81	17	15.6	5, 806
Road forks.....	33	51	23.1	81	17	20.7	1, 645
Center of bridge over mill stream.....	33	51	42.8	81	17	12.4	2, 112
Center of crossroads.....	33	52	03.4	81	17	09.4	2, 096

## LEXINGTON QUADRANGLE—Continued.

From Pellion north along roads to Lexington—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
Lexington, 8.3 miles southwest of, 35 feet east of road fork, 10 feet south of public road; iron post stamped "Elev. 303." Azimuth to double-column tombstone, 405 feet distant, 250° 55' 05".....	33	52	13.86	81	17	01.40	<i>Feet.</i> 1,264
Center of bridge over Congaree Creek.....	33	52	21.3	81	16	52.9	1,041
Road fork.....	33	52	48.6	81	16	39.8	2,978
Lexington, 6.1 miles southwest of, in northwest angle of crossroads; iron post stamped "Prim. Trav. Sta. No. 15, 1919 S. Elev. 483." Azimuth to nail 8.5 feet above ground in large pine tree, 680 feet distant, 210° 11' 30".....	33	53	48.69	81	15	52.10	7,288
Road forks.....	33	54	35.0	81	15	30.2	5,031
Red Bank, road forks, 1.0 mile southwest of.....	33	54	57.6	81	15	03.6	3,205

From west border of quadrangle east along north border to Lexington. (By R. B. Steele and Oscar Jones in 1919.)

Hollow Creek, center of bridge over.....	33	59	34.6	81	27	50.7	.....
Batesburg, about 8.5 miles northeast of, 400 feet northeast of Cedar Grove Church, in southeast angle of crossroads; iron post stamped "Prim. Trav. Sta. No. 16, 1919 S." Azimuth to tall monument in cemetery, 420 feet distant, 356° 21' 07", to nail and copper washer in tree, 590 feet distant, 284° 08' 22".....	33	59	13.55	81	27	37.05	2,416
Crossroads at Salem Church.....	33	59	22.9	81	27	14.1	2,155
T road northwest.....	33	59	52.0	81	26	36.2	4,337
Road fork.....	33	59	24.9	81	22	32.0	.....
Crossroads.....	33	58	50.5	81	21	57.4	4,540
Road fork.....	33	58	34.9	81	21	42.2	2,028
Crossroads.....	33	58	35.1	81	21	05.9	3,063
Road fork.....	33	58	38.2	81	20	26.6	3,329
Crossroads.....	33	58	41.7	81	19	54.6	2,710
Road fork.....	33	58	45.7	81	18	26.6	7,424
Road fork.....	33	58	51.9	81	17	21.8	5,502
Road fork.....	33	58	47.4	81	16	24.4	4,850
Road fork.....	33	59	00.1	81	15	28.4	4,892

Magnetic declination for north border of quadrangle, 0° 29' W.; for east border, 0° 05' W.

From Gilbert south along public road to Samaria.

Gilbert, "Prim. Trav. Sta. No. 48 H, 1918" (previously described).....	33	55	29.09	81	23	35.57	.....
Road fork.....	33	55	10.8	81	23	05.4	3,144
Crossroad.....	33	54	40.2	81	22	37.6	3,887
Road fork, Pellion road.....	33	54	20.4	81	22	20.5	2,466
Center of bridge.....	33	53	43.4	81	22	15.9	3,752
Crossroads.....	33	53	01.6	81	22	23.4	4,271
Center of bridge at mill.....	33	52	21.1	81	22	48.1	4,600
Crossroads.....	33	51	30.8	81	22	29.7	5,312
Crossroads, at telephone pole.....	33	51	03.0	81	22	28.0	2,815
Road fork.....	33	50	36.4	81	22	36.8	2,785
Gilbert, 7 miles south of, in southeast corner of crossroads, 250 feet south of bridge over mill pond; iron post stamped "Prim. Trav. Sta. No. 90, 1919 J".....	33	49	59.71	81	22	58.23	4,132
Crossroads.....	33	49	30.4	81	23	32.4	4,131
Road fork.....	33	49	15.8	81	24	01.7	2,879
Center of road, opposite mail box at road fork.....	33	48	36.5	81	24	14.8	4,124
Crossroads.....	33	48	11.8	81	24	52.1	4,015
T road east.....	33	47	53.3	81	24	57.8	1,936
Road fork at house.....	33	47	14.2	81	25	12.5	4,145
Center of bridge at mill pond.....	33	47	03.0	81	26	07.0	4,739
Steadman, 120 feet north of depot, road crossing on Southern Ry. Public-road crossing.....	33	46	59.6	81	26	24.9	1,547
Althea, road crossing.....	33	47	57.6	81	27	27.8	7,902
Road crossing.....	33	48	45.0	81	27	43.7	4,983
Samaria, "Prim. Trav. Sta. No. 11, 1919 Mac." (previously described).....	33	49	17.5	81	27	58.7	3,514
	33	49	31.81	81	28	38.83	3,682

Magnetic declination, 00° 00'.

## LEXINGTON QUADRANGLE—Continued.

East along Southern Ry. in north part of quadrangle. (By George T. Hawkins in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Second-class road crossing.....	33	55	20.0	81	29	11.8	.....
Fredonia, road crossing.....	33	55	37.6	81	27	42.3	7,751
Road crossing at house.....	33	55	45.0	81	26	42.8	5,068
Road crossing.....	33	55	39.1	81	26	01.2	3,560
Summit station (same as Bull. 181, p. 150).....	33	55	29.0	81	25	19.1	3,688
Old value.....	33	55	24.7	81	25	20.6	.....
Summit station, middle of crossing, joint in south rail of main line.....	33	55	28.8	81	25	18.7	37
Gilbert, 923 feet west of bench mark, at road crossing; joint of south rail.....	33	55	29.8	81	23	46.5	7,770
Gilbert, 20 feet north of main line, 10 feet west of road crossing; iron post stamped "Prim. Trav. Sta. No. 48 H, 1918".....	33	55	29.09	81	23	35.57	923
Second-class road crossing.....	33	55	30.4	81	22	54.7	3,445
Hayes, road crossing.....	33	55	39.5	81	22	21.8	2,917
Fowler, 400 feet west of station, road crossing.....	33	55	28.7	81	21	20.7	5,287
Road crossing, 500 feet north to house.....	33	55	44.7	81	20	17.7	5,548
Elsie station, road crossing.....	33	55	54.6	81	20	02.9	1,594
Ethon, road crossing.....	33	55	52.6	81	18	46.5	6,447
Barr station.....	33	56	21.6	81	17	33.8	6,790
Barr station (Bull. 181, p. 150). Astronomic value.....	33	56	17.5	81	17	36.4	.....
Road crossing.....	33	56	39.6	81	16	28.3	5,809
Second-class road crossing.....	33	56	49.5	81	15	49.8	3,405
Road crossing near house.....	33	56	58.9	81	15	16.1	2,998

No declination observed.

## LODGE QUADRANGLE.

Near Ruffin. (By H. S. Senseney in 1917-18.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Ruffin station, intersection of tangents at, 70 feet east to road crossing at east end of station.....	33	00	13.2	80	48	57.8	.....
Road forks.....	33	00	01.9	80	49	22.3	2,386

Southeast along Bamberg, Ehrhardt &amp; Walterboro Ry. (By E. L. McNair in 1918.)

Road crossing.....	33	05	23.2	80	59	47.9	.....
Public-road crossing.....	33	04	58.4	80	59	00.1	4,775
Public-road crossing.....	33	04	22.0	80	57	49.9	7,020
Lodge station, public-road crossing.....	33	04	02.7	80	57	12.9	3,700
Public-road crossing.....	33	03	51.6	80	56	51.5	2,140
Intersection of main line of Hampton & Branchville and Atlantic Coast Line railroads at Hampton Junction station.....	33	03	24.3	80	55	58.6	5,289
Second-class road crossing.....	33	03	06.0	80	55	23.1	3,540
Public-road crossing.....	33	02	44.8	80	54	42.0	4,100
Caldwell station, milepost 30.....	33	02	30.3	80	54	14.1	2,790
East end of long trestle bridge, 100 feet west of tank.....	33	02	23.4	80	53	38.0	3,155
Colleton station, crossing of Lumber Co.'s railroad.....	33	02	17.6	80	52	50.3	4,105
Public-road crossing.....	33	02	13.3	80	52	14.1	3,110
Public-road crossing.....	33	02	09.1	80	51	39.5	2,980
Williams station, 155 feet S. 52° E. of, 20 feet N. 40° E. of center of main track, about 14 feet west of spur track, on bank, 3 feet higher than track; iron post stamped "Prim. Trav. Sta. No. 91, Mac. 1917." Azimuth to nail in base of post, 500 feet distant, 319° 38' 30".....	33	01	59.4	80	50	32.0	5,835
Second-class road crossing.....	33	01	32.5	80	50	08.2	3,391
Pile bridge over creek.....	33	00	56.2	80	49	36.4	4,550
Ruffin station, intersection of tangents at.....	33	00	13.2	80	49	57.8	5,454

Southeast along Southern Ry. (By E. L. McNair in 1918.)

Road crossing.....	33	14	44.1	80	47	44.1	.....
Private-road crossing.....	33	14	35.8	80	47	14.8	2,625
Road crossing.....	33	14	16.6	80	46	07.5	6,040
Public-road crossing.....	33	14	09.4	80	45	42.2	2,270
Second-class road crossing, at east end of siding.....	33	13	58.9	80	45	04.8	3,345

## LODGE QUADRANGLE—Continued.

South along highways near east border of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Fork of road.....	33	14	13.3	80	48	53.0	.....
T road south, second class.....	33	13	06.4	80	48	49.0	6,768
Fork of road, 15 feet east of large oak tree.....	33	12	28.9	80	48	14.9	4,770
Second-class crossroad.....	33	11	44.4	80	48	16.7	4,500
Center of short span over Edisto River.....	33	10	38.9	80	48	07.5	6,658
U. S. River Engineers bench mark.....	33	10	37.5	80	48	07.4	142
Branchville, about 5.5 miles south of, on road to Smoaks, 800 feet south of Edisto River, 25 feet northeast of old crossroad, on bank; iron post stamped "Prim. Trav. Sta. No. 9, 1918 Mac." Azimuth to nail in small pine tree 100 feet distant, 34° 22'.....	33	10	31.7	80	48	11.5	683
Crossroads.....	33	09	49.3	80	48	43.6	5,076
Lane northwesterly.....	33	09	08.5	80	48	43.3	4,126
T road westerly.....	33	08	34.4	80	48	42.8	3,446
Crossroads.....	33	07	34.2	80	48	40.9	6,088
Forks of road.....	33	06	47.6	80	48	31.6	4,766
T road east.....	33	06	09.2	80	48	44.2	4,028
Smoaks, about 35 feet east of main north and south street, about 20 feet south of road leading east, about 175 feet northwest of large residence of W. H. Vann, just outside fence line, on both streets; iron post stamped "Prim. Trav. Sta. No. 5, 1918 Mac." Azimuth to south edge of chimney on W. H. Vann's residence, 310° 49'; to northeast corner of brick building of Smoaks Mercantile Co. 145° 57'.....	33	05	20.3	80	48	48.2	4,947
T road southerly.....	33	05	29.6	80	47	45.0	5,465
T lane south.....	33	05	28.6	80	47	07.5	3,190
Woods road southeast.....	33	05	28.0	80	46	06.2	5,214
Angle of 12° in road, 140 feet southwest of milepost marked "Smoaks 3 miles".....	33	05	39.6	80	45	32.4	3,112

Magnetic declination along east border of quadrangle (26' W.), 0.45° W.

Southeast along highways in southeast corner of quadrangle.

Smoaks, Prim. Trav. Sta. No. 5, 1918.....	33	05	20.3	80	48	48.2	.....
Road east.....	33	04	45.7	80	48	42.0	3,533
Angle of 37½° in road, on center line each way.....	33	03	43.3	80	47	51.0	7,659
T road west to Williams.....	33	03	06.5	80	47	29.5	4,139
Forks of road.....	33	02	41.3	80	47	23.3	2,599
Angle of 22° 40' in road, at corner of yard fence.....	33	02	30.2	80	46	52.5	2,845
Forks of road, dim road northeast, 15 feet south of fence corner.....	33	02	30.0	80	45	58.7	4,588
Forks of road.....	33	02	24.0	80	45	26.4	2,814

Magnetic declination for southwest corner of quadrangle, 0° 25' W.

West along highways near center of quadrangle.

Road southwesterly.....	33	08	50.2	80	45	24.3	.....
Crossroads.....	33	09	31.2	80	46	19.3	6,251
Fork of road, 400 feet northeast of church.....	33	10	17.9	80	47	44.6	8,652
Bamberg and Colleton county line, center of road, at marble post.....	33	10	28.3	80	48	06.8	2,165
Branchville, 5.5 miles south of, Prim. Trav. Sta. No. 9, 1918.....	33	10	31.7	80	48	11.5	525
Crossroads.....	33	11	04.2	80	49	03.6	5,515
Dim road southwest.....	33	11	27.2	80	49	45.9	4,279
Dim road south near top of hill.....	33	11	53.3	80	50	19.2	3,868
Crossroad south.....	33	12	14.6	80	50	53.1	3,596
Fork of road.....	33	12	41.6	80	51	48.1	5,414
Farrel's store, crossroads.....	33	12	51.3	80	52	22.1	3,049
Fork of road.....	33	11	59.5	80	53	28.0	7,667
Fork of road.....	33	10	55.3	80	53	54.1	6,856
Second-class road easterly.....	33	10	36.2	80	53	57.9	1,955
Branchville, about 9 miles south of, on road to Ehrhardt, near residence of H. A. Stokes, 20 feet east of road, at driveway to house; iron post stamped "Prim. Trav. Sta. No. 10, 1918 Mac".....	33	10	02.1	80	54	29.8	4,382
Gateway across road.....	33	09	16.4	80	54	44.0	4,780
Fork of road, near five mail boxes.....	33	08	51.8	80	54	54.0	2,638
Fork of road, 70 feet east of old schoolhouse.....	33	08	34.8	80	54	54.4	1,711
Fork of road southeast.....	33	08	16.5	80	54	54.6	1,855
Fork of road, 20 feet N. 47° E. to oak tree.....	33	07	56.1	80	55	27.2	3,454
Little Salkehatchie River, bridge over.....	33	07	45.1	80	56	12.2	3,985
Crossroad.....	33	07	30.5	80	57	22.7	6,170
Fork of road.....	33	07	20.8	80	57	58.4	3,185
Fork of farm road north.....	33	07	05.6	80	58	55.5	5,096

Magnetic declination through middle of quadrangle, 23' W.

## LODGE QUADRANGLE—Continued.

From Farrel's store northwest along highway to Midway. (By E. L. McNair in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Crossroads at Farrel's store.....	33 12 51.34	80 52 22.08	.....
Forks of road near small bridge.....	33 13 12.8	80 52 53.1	3,416
T road southwest.....	33 13 34.1	80 53 16.8	2,948
Forks of road, 90 feet northwest of mail box.....	33 13 42.0	80 53 32.7	1,566
T road north 30° east.....	33 14 11.5	80 54 08.1	4,233
T road northeast.....	33 14 22.8	80 54 35.5	2,592
T road southwest near old church.....	33 14 33.6	80 55 01.3	2,448

Magnetic declination for north border of quadrangle, 0° 12' W.

## LORIS QUADRANGLE.

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

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Forks of road, 500 feet east of butter store.....	34 00 21.8	78 45 37.9	.....
Creek crossing.....	34 00 01.8	78 54 16.2	.....
Forks of road.....	34 00 15.6	78 55 16.3	5,256
Creek crossing.....	34 00 30.4	78 55 35.0	2,167
Creek crossing.....	34 00 56.0	78 56 12.0	4,043

Along Atlantic Coast Line R. R. from Allbrook to Gurley.

Allbrook, 50 feet south of south end of station, center of track and road crossing.....	34 01 11.7	78 56 47.3	3,377
Center of track, opposite water tank.....	34 01 00.5	78 57 05.9	2,012
Road crossing.....	34 00 48.8	78 57 25.4	2,030
Center of trestle.....	34 00 40.3	78 57 39.6	1,469
Road crossing.....	34 00 30.8	78 57 56.0	1,680
North end of trestle.....	34 00 25.7	78 58 35.6	3,379
Gurley, center of track, opposite center of depot.....	34 00 08.1	78 59 11.8	3,533
Center of bridge.....	34 00 17.8	78 59 48.8	3,264

Magnetic declination for south border of quadrangle, 2° 16' W.

## MANNING QUADRANGLE.

Northwest along Atlantic Coast Line R. R. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Second-class road crossing.....	33 35 20.4	80 00 01.3	.....
Second-class road crossing.....	33 35 31.6	80 00 21.8	2,070
Greelyville, 2 miles northwest of, U. S. P. B. M. Elev. 80.....	33 35 57.2	80 01 08.9	4,753
Center of track, opposite milepost 28.....	33 37 10.7	80 02 45.1	11,017
Foreston public road, 30 feet west of track, west side of road, 50 feet east of depot; iron post stamped "Elev. 85".....	33 37 54.8	80 03 41.7	6,538
Center of track, opposite milepost 26.....	33 38 21.5	80 04 16.7	4,012
Second-class road crossing.....	33 38 59.1	80 05 15.3	6,244
Second-class road crossing.....	33 39 06.0	80 05 31.2	1,510
Road crossing.....	33 39 20.8	80 06 05.4	3,259
Center of track, opposite switch stand.....	33 39 44.7	80 06 00.6	5,250
Wilsons Mill, 80 feet west of depot, 20 feet north of track; iron post stamped "Prim. Trav. Sta. No. 45. Elev. 119".....	33 39 46.6	80 07 04.6	384
Center of trestle.....	33 40 10.2	80 07 59.5	5,218
Center of trestle.....	33 40 53.8	80 09 40.3	9,590
Road crossing, U. S. P. B. M.....	33 40 56.9	80 09 48.0	.....
Road crossing.....	33 41 19.4	80 10 39.6	4,917
Road crossing.....	33 41 36.7	80 11 19.7	3,819
Manning, 70 feet north from northwest corner of depot; iron post stamped "Prim. Trav. Sta. No. 46 J. Elev. 95".....	33 42 01.3	80 12 08.7	4,826
Center of track, opposite station.....	33 42 44.5	80 11 59.8	4,426
Public-road crossing.....	33 43 00.6	80 11 45.4	2,034
Road crossing.....	33 43 29.8	80 11 49.4	2,976
Road crossing.....	33 44 19.3	80 12 26.0	5,888
Alcolu, 1,300 feet southeast of depot, at road crossing, south side of track, east side of road; iron post stamped "Elev. 117".....	33 44 41.8	80 12 42.9	2,681

## MANNING QUADRANGLE—Continued.

From northwest corner of quadrangle east along highway to Manning.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Center of bridge.....	33	43	44.2	80	14	26.0	.....
Road forks.....	33	43	35.4	80	14	15.2	1,279
Center of road, opposite well on south.....	33	43	08.7	80	13	58.5	3,037
Center of bridge.....	33	42	46.4	80	13	29.7	3,323
Center of bridge.....	33	42	13.0	80	12	45.6	5,020

## East along highways. (By Oscar Jones in 1918.)

Crossroads, at gin and schoolhouse.....	33	44	24.7	80	11	22.1	.....
Road forks.....	33	44	28.0	80	11	09.1	1,150
Center of bridge.....	33	44	15.7	80	09	57.4	6,181
Road forks.....	33	44	27.8	80	09	24.6	3,027
Center of road to well between two churches.....	33	44	36.4	80	08	59.2	2,321
Road forks.....	33	44	48.2	80	08	06.7	4,592
Center of bridge.....	33	44	38.1	80	07	18.8	4,170
Crossroad at mail box.....	33	44	27.3	80	06	38.5	3,577
Midway Church, 3.5 miles southwest of, about 8 miles east of Alcolu, 0.8 mile southwest of Cypress Forks Church, at north- east corner of crossroads; iron post stamped "Prim Trav. Sta. No. 48, 1918 94." Elevation 94.227 feet.....	33	44	15.6	80	04	57.8	8,584
Crossroad at church.....	33	44	49.8	80	04	27.4	4,305
Road forks.....	33	44	58.2	80	01	21.6	.....
Center of bridge.....	33	44	46.6	80	00	30.4	4,480

Magnetic declination for center of quadrangle, 01° 04' W.; for north border, 00° 55' W.

From Manning south along public roads to post 60 near west border of quadrangle. (By Oscar Jones in 1919.)

Road fork (previously described).....	33	43	35.36	80	14	15.24	.....
Road fork.....	33	43	02.7	80	14	18.3	3,313
Crossroads.....	33	42	09.9	80	14	26.5	5,379
Crossroads.....	33	41	13.8	80	14	35.7	5,720
Crossroads, Manning and Summerton.....	33	40	38.3	80	14	27.7	3,644
Center of bridge.....	33	39	49.0	80	14	09.9	5,203
Crossroads.....	33	39	13.1	80	13	50.1	4,001
Center of creek crossing.....	33	38	35.6	80	13	59.6	3,872
Road fork.....	33	37	42.6	80	14	34.2	6,096
Crossroads.....	33	37	26.1	80	14	41.9	1,790

## East along public roads near south border of quadrangle (Rimini-Greelyville line).

Well at church, center of road opposite.....	33	32	01.8	80	14	42.4	.....
T road south at store.....	33	32	05.6	80	14	17.6	2,139
Center of bridge.....	33	32	19.6	80	13	26.7	4,528
Wyboo Swamp, center of bridge, the east one of three.....	33	32	22.7	80	13	12.8	1,224
Crossroads, at six mail boxes.....	33	32	15.4	80	12	18.5	4,655
Center of creek crossing.....	33	32	08.7	80	11	14.0	5,500
Road fork.....	33	32	05.7	80	10	44.9	2,480
Crossroads, second class.....	33	32	09.2	80	10	09.0	3,058
Center of creek crossing.....	33	32	23.5	80	08	15.0	9,759
Crossroads Charleston and Camden road, 1,300 feet west of cross- ing of Mill Swamp, northeast corner of crossroads; iron post stamped "Prim Trav. Sta. No. 61, 1919 J".....	33	32	40.59	80	07	00.45	6,544
Mill Swamp, creek crossing.....	33	32	46.7	80	06	43.5	1,565
Doctor Swamp, creek crossing, center of.....	33	32	39.5	80	05	09.2	8,016
Road fork at store.....	33	32	33.5	80	04	16.2	4,527
Center of bridge.....	33	32	17.0	80	02	58.6	6,773
T road north.....	33	32	18.6	80	02	05.0	4,540
T road north.....	33	32	21.5	80	01	13.6	4,364
Road fork.....	33	33	01.7	80	01	06.6	4,115
Road fork.....	33	33	34.0	80	00	28.8	4,560

Magnetic declination near west border of quadrangle, 1° 01' W.; near south border, 54' W.



## MARION QUADRANGLE.

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

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road fork.....	34	00	26.4	79	20	43.0	<i>Feet.</i>
Road fork, Marion and Galavant roads, opposite mail box.....	34	01	04.2	79	20	48.1	3,850
South end of bridge.....	34	02	01.0	79	20	15.3	6,367
Crossroads, at two mail boxes.....	34	02	26.7	79	19	46.0	3,585
Culvert, iron pipe.....	34	03	22.2	79	19	12.6	6,276
Center of road, opposite church.....	34	03	50.7	79	18	37.4	4,128
Crossroads, Mullins and Galavant roads.....	34	04	32.5	79	18	09.8	4,823
Road fork.....	34	04	11.6	79	17	22.8	4,475
West end of bridge.....	34	04	04.3	79	16	12.2	5,994
West end of bridge.....	34	03	38.6	79	15	20.7	5,050

Magnetic declination in southeast corner of quadrangle, 1° 56' W.

Northeast along highways to Aynor.

Road fork, 0.25 mile north of Red Hill School.....	34	00	16.1	79	15	33.3	.....
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Checked spur line to point near southwest corner of quadrangle. (By Oscar Jones in 1918.)

Center of small culvert, at end of long tangent in road.....	34	00	26.2	79	25	20.9	.....
At fork of Graham, Mullin, and Eulonia roads, in front of residence of Mrs. Mary Davis, 100 feet south of southeast corner of store, in root of sycamore tree; nail.....	34	00	43.4	79	25	46.4	2,760

Magnetic declination near southwest corner of quadrangle, 1° 47' W.

## MAYESVILLE QUADRANGLE.

North along highways near east border of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road fork.....	33	50	19.8	80	00	58.4	<i>Feet.</i>
Flowing well, at white church.....	33	50	39.1	80	01	18.4	2,584
New Zion, crossroads.....	33	50	44.9	80	01	46.6	2,449
Crossroads.....	33	51	30.3	80	01	36.6	4,671
Railroad crossing.....	33	52	38.4	80	01	06.4	7,340
Road fork to Turbeville.....	33	52	50.6	80	00	52.5	1,702
Railroad crossing at school.....	33	52	51.6	80	00	29.0	1,987
Center of bridge.....	33	52	39.5	80	00	12.1	1,878
Road fork to Turbeville (previously described).....	33	52	50.6	80	00	52.5	.....
Turbeville, road fork, 100 feet west of post office.....	33	53	23.1	80	01	11.5	3,651
T road north.....	33	53	36.7	80	00	31.2	3,663
Center of road opposite house, bend in road.....	33	54	11.6	80	00	09.6	3,969
T road north at house.....	33	57	30.3	80	00	00.2	.....

Magnetic declination for east border of quadrangle, 0° 54' W.

East along south border of quadrangle. (By Oscar Jones in 1918.)

Center of bridge.....	33	45	11.5	80	03	53.9	.....
Road forks at edge of swamp.....	33	45	45.4	80	03	05.2	5,350
T road southwest, 600 feet northwest of Midway Church.....	33	46	04.3	80	02	14.1	4,727
Road forks, at church.....	33	45	35.9	80	01	51.4	4,350

## MAYESVILLE QUADRANGLE—Continued.

From New Zion along highways west to Sumter.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Crossroads .....	33	50	56.8	80	03	03.1	.....
Road crossing, Alcolu R. R. ....	33	51	08.4	80	03	22.7	2,031
T road southwest .....	33	52	09.6	80	04	15.2	7,609
Road forks .....	33	52	19.0	80	04	20.5	1,050
Center of road, opposite house on south side .....	33	52	51.0	80	05	14.4	5,575
Road forks .....	33	53	02.8	80	05	39.3	2,420
Road forks .....	33	53	21.7	80	06	19.6	3,899
Center of bridge .....	33	53	41.0	80	07	00.6	3,969
Road forks .....	33	53	51.8	80	07	58.8	5,023
Crossroad near gin and store .....	33	53	53.3	80	08	32.4	2,840
Sumter, about 12 miles east of, 0.4 mile south of Goodwill Church, 20 feet north and 15 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 49, 1918 123." Elevation 123.371 feet. ....	33	54	24.5	80	08	48.0	3,418
Road forks .....	33	54	11.8	80	09	20.2	3,008
Center of the first bridge from the east on Black River Swamp (18 bridges on the swamp) .....	33	54	01.1	80	09	49.4	2,688
Center of bridge, the first on west edge of Black River Swamp ..	33	53	40.7	80	10	46.3	5,221
Road forks .....	33	53	39.4	80	11	08.0	1,840
Road forks, at 9-mile post .....	33	53	41.5	80	11	52.2	3,729
Crossroads, at gin and store .....	33	53	53.0	80	12	59.1	5,761
Crossroads .....	33	54	01.9	80	14	08.5	5,920

Along Atlantic Coast Line R. R. northwest from Greelyville to Sumter.

Center of trestle .....	33	45	15.0	80	13	07.1	.....
Road crossing, 100 feet southeast of depot at Harvin .....	33	46	02.3	80	13	42.0	5,610
Road crossing .....	33	46	28.5	80	14	01.4	3,120
U. S. permanent bench mark at milepost 11 .....	33	46	47.2	80	14	15.2	2,211
Road crossing .....	33	47	25.1	80	14	43.3	4,511

From post 41 west along highway and railroad.

Road forks at house .....	33	59	55.3	80	00	04.5	.....
Crossroad at Cunningham store .....	33	59	30.3	80	02	43.5	.....
North end of trestle .....	33	59	53.7	80	11	10.4	.....
Mayesville, depot at, opposite semaphore, center of track .....	33	59	12.2	80	12	28.0	7,759
North end of trestle .....	33	58	55.9	80	13	01.3	3,257
North end of trestle .....	33	58	44.1	80	13	25.5	2,360
Sumter, 7.6 miles northeast of, 1.5 miles southwest of Mayesville, 30 feet south and 12 feet west of road crossing; iron post stamped "Prim. Trav. Sta. No. 51, 1918, 133." Elevation 132.593 feet. ....	33	58	29.7	80	13	51.4	2,622

Magnetic declination for north edge of quadrangle, 00° 57' W.; for west edge, 01° 00' W.; for south edge, 00° 54' W.; for center, 00° 56' W.

## CORDESVILLE QUADRANGLE.

Northeast along railroad through northwest corner of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road crossing .....	33	12	41.2	79	59	46.0	.....
Road crossing, just north of sawmill .....	33	13	22.9	79	59	27.2	4,505
Center of creek crossing, Santee Canal .....	33	14	00.5	79	59	10.1	4,070

Southwest along railroad.

Bethera flag station, 35 feet west of public-road crossing, 20 feet northwest of railroad track, in top of bank; iron post stamped "Prim. Trav. Sta. No. 26 Mac., 1917." Azimuth of railroad tangent southwest of post, 48° 45' .....	33	12	05.9	79	47	16.8	.....
Public-road crossing .....	33	09	08.2	79	51	17.3	27,214
Road crossing .....	33	08	18.3	79	52	24.9	7,640

## CORDESVILLE QUADRANGLE—Continued.

## Southwest along railroad—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Cordesville flag station, 95 feet west and 25 feet south from road crossing at, about 50 feet northwest of center of track, near edge of right of way; iron post stamped "Prim. Trav. Sta. No. 27, 1917 Mac." Azimuth of long railroad tangent is 48° 43'.....	33	07	53.7	79	52	59.1	3,829
Road crossing.....	33	07	28.0	79	53	33.0	3,878
Second-class road crossing.....	33	06	52.3	79	54	21.5	5,470
Milepost 143.....	33	06	30.2	79	54	51.3	3,380
Sims flag station, road crossing.....	33	05	49.3	79	56	02.4	7,324
Cooper River, center of draw span.....	33	05	35.3	79	56	30.2	2,755
Milepost 146.....	33	04	58.1	79	57	20.3	5,680
Public-road crossing.....	33	04	01.0	79	58	21.4	7,770
Milepost 148.....	33	03	40.4	79	58	43.6	2,810
Pine Grove flag station, 25 feet west and 10 feet north of, public road crossing at; iron post stamped "Prim. Trav. Sta. No. 28, 1917 Mac.".....	33	02	34.5	79	59	19.4	7,322
Road crossing.....	33	02	04.4	79	59	32.7	3,249
Stokes Mill, crossing of lumber company railroad.....	33	00	57.4	79	59	54.7	7,018

## North and east along highways (Cooper River road). (By E. L. McNair in 1917.)

Milestone marked "12 miles to C".....	33	00	32.7	79	51	00.6	.....
Forks of road.....	33	01	29.9	79	51	18.8	5,913
Crossroads, about 400 feet north of milestone marked "14 miles to C".....	33	02	19.9	79	51	14.8	5,132
Angle of 42.25° in road, on center line both ways.....	33	03	07.4	79	51	31.4	5,013
Cainhoy, 10 miles north of, about 0.7 mile northeast of negro church and gate entrance to Chisolm's plantation, 850 feet northeast of creek bridge, 10 feet southeast of center of road, opposite a gate in wire fence on north side of road; iron post stamped "Prim. Trav. Sta. No. 53, 1917 Mac.".....	33	03	43.3	79	51	02.5	4,382
Crossroads, at entrance to farm on west.....	33	04	38.9	79	50	25.4	6,450
Lane north to Mr. Gibb's store and gin and Huger post office.....	33	05	09.3	79	49	27.7	5,788
Crossroads, 100 feet southwest of milestone 19.....	33	05	28.4	79	48	43.6	4,268
Bridge over Quimby Creek, small boats run to Charleston.....	33	05	38.6	79	48	28.9	1,559
Forks of road at R. L. Caisson's store.....	33	05	49.5	79	48	12.9	1,747
Angle of 13.50° in road, on center line both ways.....	33	06	47.6	79	48	19.2	5,902
Huger bridge, about 1,500 feet south of, at junction with Major Road, 20 feet west of road, on line of Major Road running east, about 2 miles north of R. L. Caisson's store, near Quimby Creek; iron post.....	33	07	37.6	79	48	30.9	5,159
Angle of 12.25° in road, on center lines.....	33	07	32.4	79	47	57.2	2,914
Road crossing, on road called Major Road.....	33	07	33.8	79	46	54.3	5,350
Third-class road, crossing of.....	33	08	10.1	79	46	59.8	3,700
Abandoned tramroad, crossing of.....	33	08	54.2	79	47	06.6	4,500
Public-road crossing.....	33	09	28.9	79	47	11.9	3,530
Public-road crossing.....	33	10	02.9	79	47	17.1	3,470
Angle of 21° in road, on center line both ways.....	33	10	41.5	79	47	33.7	4,153

## Northwest along highways in northeast corner of quadrangle.

Forks of road.....	33	11	22.8	79	47	33.8	4,180
Prim. Trav. Sta. No. 26 at Bethera (previously described).....	33	12	05.9	79	47	16.8	4,588
Angle of 37° in road, about 130 feet northwest of bridge.....	33	12	32.6	79	47	54.7	4,199
Forks of road.....	33	12	47.2	79	48	11.4	2,038
Forks of road.....	33	13	02.6	79	48	45.5	3,296
Angle in road, at northwest edge of swamp.....	33	13	41.8	79	50	19.4	8,906
Angle of 23° in road, on center line both ways.....	33	14	48.4	79	51	16.3	8,320

## Southwest along highways in northwest corner of quadrangle.

Angle of 29.5° in road, on center line both ways.....	33	14	38.4	79	56	29.2	.....
Junction point.....	33	13	56.3	79	56	30.1	4,260
Second-class crossroad.....	33	13	49.7	79	56	30.3	670
T road southeast.....	33	13	17.9	79	56	54.3	3,811
Moncks Corner, 3 miles northeast of, 40 feet east of forks of road, 0.6 mile east of Santee Canal, road southeast to Cordesville and northeasterly to Bethera; iron post stamped "Prim. Trav. Sta. No. 70, 1917 Mac.".....	33	12	42.4	79	57	59.4	6,599
Santee Canal.....	33	12	42.7	79	58	38.4	3,316
Road forks.....	33	11	30.6	79	59	47.5	9,361

## CORDESVILLE QUADRANGLE—Continued.

Northwest along Tuxbury Lumber Co.'s railroad near east border of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road crossing.....	33	04	13.5	79	45	15.5	.....
Intersection of two long railroad tangents.....	33	04	26.8	79	45	26.9	1,650
Road crossing.....	33	05	07.3	79	45	46.3	4,412
Third-class road crossing.....	33	05	46.9	79	46	05.1	4,315
Second-class road crossing.....	33	06	13.8	79	46	17.8	2,825
Road crossing.....	33	06	25.3	79	46	23.3	1,250
Second-class road crossing.....	33	06	42.8	79	46	31.7	1,910
Crossing of Major Road.....	33	07	33.8	79	46	54.3	5,508

Magnetic declination for northeast corner of quadrangle,  $1.3^{\circ}$  W.; for northwest corner,  $1.0^{\circ}$  W.; for east border,  $1.3^{\circ}$  W.

## MYRTLE BEACH QUADRANGLE.

Northeast along highways in north central part of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Center of bridge.....	33	41	06.6	78	58	53.8	.....
Socastee, road fork.....	33	41	09.4	78	58	43.5	915
Road fork.....	33	41	03.8	78	58	11.8	2,743
Road fork.....	33	41	07.1	78	57	50.1	1,863
Center of bridge.....	33	41	08.3	78	57	02.8	3,996
Center of culvert over drainage ditch.....	33	41	16.6	78	55	38.7	7,161
Road fork at cattle dip, Burcol 3 miles.....	33	41	21.9	78	54	29.7	5,851
Center of bridge over canal.....	33	41	25.6	78	53	37.0	4,468
Myrtle Beach, 300 feet north of depot, 25 feet east of railroad track, 2 feet north of crossing sign; iron post stamped "Prim. Trav. Sta. No. 19".....	33	41	39.8	78	53	02.9	3,220
Center of bridge over ditch.....	33	42	19.6	78	52	22.6	5,266
Road fork.....	33	43	12.2	78	51	29.5	6,953
Center of bridge.....	33	43	42.0	78	50	53.5	4,276
Blazed pine tree, on east side of road, marked "U. S.".....	33	44	37.9	78	50	25.0	6,148

Magnetic declination for north central part of quadrangle,  $2^{\circ}$  W.

## NICHOLS QUADRANGLE.

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

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
East end of Galavants Bridge over Little Peedee River.....	34	03	22.8	79	14	48.9	.....
Crossroads.....	34	03	09.8	79	14	35.9	1,716
T road west.....	34	02	37.1	79	13	33.2	6,221
Crossroad.....	34	02	25.8	79	13	13.2	2,035
T road west.....	34	02	12.0	79	12	40.9	3,060
Aynor, 2 miles northeast of, southeast corner of crossroads on Conway-Galavants Ferry and Aynor roads; iron post stamped "Prim. Trav. Sta. No. 9, 1918 J".....	34	01	37.8	79	11	53.6	5,274
Road fork.....	34	00	21.5	79	11	53.9	7,713

Magnetic declination in southwest corner of quadrangle,  $2^{\circ} 06'$  W.

East along highways to Aynor.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road fork.....	34	00	15.4	79	14	59.0	.....
Center of bridge.....	34	00	17.5	79	14	39.5	1,658
Crossroad at sawmill.....	34	00	18.5	79	14	24.8	1,243
Road fork.....	34	00	17.7	79	13	56.7	2,364
Road fork.....	34	00	18.1	79	13	28.4	2,384
Center of bridge.....	34	00	02.3	79	12	21.8	5,832

Magnetic declination along line,  $1^{\circ} 57'$  W.

## NICHOLS QUADRANGLE—Continued.

Along highways near southeast corner of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Center of bridge.....	34 00 22.4	79 00 14.6	.....
Old Bayboro, crossroads.....	34 00 33.0	79 01 19.2	5,543
Conway-Bayboro and Bayboro-Cool Spring road forks, east side of road, 100 feet northwest of church, 0.25 mile south of Old Bayboro; iron post stamped "Prim. Trav. Sta. No. 21 J, 1918".	34 00 19.3	79 00 16.7	1,401
Crossroads at sawmill.....	34 00 04.9	79 01 57.8	3,749

Magnetic declination near southeast corner of quadrangle, 2° 20' W.

## NIXONVILLE QUADRANGLE.

East along highways through center of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Center of bridge.....	33 49 03.0	78 58 46.5	.....
Road fork.....	33 49 01.5	78 58 20.2	2,224
Center of bridge.....	33 49 13.5	78 58 05.2	1,758
Road forks.....	33 49 28.1	78 57 46.0	2,189
Center of road, opposite flowing well at church and schoolhouse.....	33 49 18.0	78 57 10.2	3,190
Center of road, opposite house on south side of road.....	33 49 14.5	78 56 03.5	5,633
Center of road, opposite house and flowing well on north side of road.....	33 49 19.1	78 55 17.0	3,954
Center of bridge.....	33 49 12.7	78 54 24.3	4,497
Nixonville, 5 feet north of northwest corner of churchyard fence, 50 feet south of flowing well; iron post stamped "Prim. Trav. Sta. No. 22 J, 1918".	33 50 02.9	78 53 03.8	8,479
Road fork southeast.....	33 50 09.8	78 52 28.1	3,090
Crossroads, 100 feet east of two mail boxes.....	33 50 36.8	78 52 07.0	3,256
Road fork at small stream.....	33 50 28.0	78 51 29.5	3,283
Road fork.....	33 50 08.6	78 50 51.8	3,744
Center of bridge, the northern one of two.....	33 50 32.2	78 50 18.7	3,666
Center of road, opposite schoolhouse.....	33 51 08.0	78 49 44.5	4,626
Center of road, opposite white church.....	33 51 14.6	78 48 50.7	4,688
Road fork.....	33 51 21.4	78 48 12.6	3,289
Road fork.....	33 51 20.7	78 47 30.9	3,522
Bridge over ditch.....	33 51 07.4	78 46 30.1	4,816
Crossroads at church.....	33 51 11.6	78 46 05.8	2,592
Crossroads.....	33 51 23.0	78 45 02.9	5,421

Magnetic declination through center of quadrangle, 2° W.

Northeast along highways in southeast part of quadrangle.

Small creek crossing.....	33 45 02.9	78 49 32.2	.....
Center of road, opposite pine tree on west side of road, blazed and marked "U. S.".....	33 45 49.5	78 48 47.6	6,026
Singleton Swash and Atlantic Coast, 1 mile west of, southwest corner of crossroads of Myrtle Beach and Little River road and Singleton Swash road; iron post stamped "Prim. Trav. Sta. No. 20 J, 1918".	33 45 59.8	78 48 26.5	2,060
Center of road, opposite pine tree on east side of road, blazed and marked "U. S.".....	33 46 26.5	78 47 45.8	4,369
Center of bridge.....	33 46 34.8	78 47 38.9	1,017
Crossroads.....	33 46 56.1	78 47 27.3	2,367
Road fork.....	33 47 32.8	78 47 31.3	3,725
Crossroads.....	33 47 46.2	78 47 14.6	1,950
Road fork.....	33 48 12.9	78 47 16.6	2,706
Center of road, opposite charcoal kiln.....	33 49 00.6	78 46 33.8	6,025
Crossroads, 600 feet north of church.....	33 49 24.7	78 45 50.0	4,429
Road fork.....	33 49 49.1	78 45 01.6	4,769

Magnetic declination for southeast part of quadrangle, 1° 58' W.

## NIXONVILLE QUADRANGLE—Continued.

Northeast along highways to post 23, thence southeast.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road fork through gate.....	33	51	42.9	78	59	33.8	Feet.
Road fork to Reams Ferry.....	33	52	24.1	78	58	41.3	6,084
Road fork, signboard painted "Sanford 10 miles".....	33	52	32.7	78	58	23.1	1,760
Center of road, opposite house on west side of road.....	33	53	03.8	78	57	45.7	4,450
Center of bridge.....	33	53	26.4	78	57	02.1	4,327
Center of road, opposite gate and lane to house on south side of road.....	33	53	51.8	78	55	47.3	6,812
Road forks of Loris-Conway and Conway-Shell roads.....	33	54	10.3	78	54	29.7	6,804
Road fork.....	33	54	51.7	78	54	40.7	4,282
Road fork.....	33	55	17.4	78	54	34.6	2,649
Road fork at bridge.....	33	55	32.5	78	54	22.2	1,849
Center of bridge.....	33	56	08.5	78	53	53.1	4,387
Road fork.....	33	56	29.0	78	53	45.3	2,171
Center of bridge.....	33	57	16.6	78	53	33.0	4,919
Beulah Church, center of road, opposite flowing well.....	33	58	00.7	78	53	17.5	4,644
Road fork.....	33	58	22.1	78	53	06.0	2,372
Road fork.....	33	58	34.5	78	52	46.8	2,040
Crossroads.....	33	58	58.5	78	52	30.2	2,797
Daisy, in southwest corner of crossroads, 1 foot east of telephone pole; iron post stamped "Prim. Trav. Sta. No. 23 J, 1918".....	33	59	39.2	78	52	02.4	4,739
Crossing, over old railroad grade.....	33	59	32.1	78	51	21.9	3,489
T road east, at sawmill.....	33	59	15.3	78	50	52.2	3,026
Center of road, opposite flowing well at church and schoolhouse.....	33	59	11.2	78	50	12.2	3,400
Road fork, at Loris road.....	33	59	08.3	78	49	47.8	2,073
Road fork, 200 feet south of Cox's store.....	33	58	28.9	78	49	32.0	4,201
Road fork.....	33	57	50.4	78	48	48.9	5,333
Road fork.....	33	57	38.2	78	48	21.6	2,608
Center of bridge, the eastern one of three.....	33	57	23.4	78	47	38.9	3,894
Center of small bridge.....	33	56	27.5	78	46	37.1	7,683
Road fork.....	33	55	53.8	78	46	05.4	4,338
Chestnut crossroads.....	33	55	23.7	78	45	46.3	3,444
Crossroads at small culvert.....	33	55	25.9	78	45	01.7	3,768

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

Along highways near north border of quadrangle.

Crossroads, near school.....	33	59	48.6	78	45	06.1	.....
Center of road, opposite gate, at mail box.....	33	59	50.1	78	52	58.0	.....
Crossroads.....	33	59	51.2	78	53	34.5	3,078

## OAKTON QUADRANGLE.

Southeast and northeast along highways. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Center of bridge.....	33	56	29.8	79	29	53.2	Feet.
T road west.....	33	55	52.6	79	29	12.3	5,100
Road fork.....	33	55	18.9	79	28	35.8	4,590
Road fork.....	33	54	57.6	79	28	12.7	2,900
Center of road, opposite store.....	33	54	05.0	79	27	44.7	5,824
Seaboard Air Line Ry. crossing.....	33	53	40.1	79	27	32.8	2,708
Road fork.....	33	53	15.3	79	27	19.7	2,740
Crossing.....	33	52	56.5	79	27	09.4	2,090
Kingsbury, crossing of Seaboard Air Line Ry.....	33	52	50.2	79	26	41.7	2,397
Poston, 100 feet south of depot, 20 feet east of track, 2 feet north of crossing sign; iron post stamped "Prim. Trav. Sta. No. 7 J, 1918".....	33	52	25.2	79	25	36.7	6,084
Road fork.....	33	52	49.4	79	25	11.2	3,262
Allison Ferry landing, west bank of Pedee River, top of bank.....	33	53	01.6	79	24	34.1	3,358
Center of bridge.....	33	53	17.2	79	23	52.6	3,835
Center of bridge.....	33	53	17.8	79	23	39.1	1,140
East end of bridge.....	33	53	23.3	79	23	23.2	1,452
Allison Ferry, 1.5 miles northeast of, at five forks of road; iron post stamped "Prim. Trav. Sta. No. 8 J, 1918".....	33	53	30.0	79	23	10.6	1,264
T road west, at old abandoned house and barn.....	33	53	48.9	79	22	50.4	2,557

## OAKTON QUADRANGLE—Continued.

## Southeast and northeast along highways—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Center of bridge, southern one of two.....	33	54	18.7	79	22	23.7	3,761
Crossing of Atlantic Coast Line R. R.....	33	55	03.4	79	22	02.5	4,854
Crossroads.....	33	55	28.0	79	21	43.8	2,952
Crossroads, 500 feet northeast of church.....	33	56	14.7	79	20	38.5	7,250
Road fork.....	33	56	38.4	79	20	35.0	2,417
T road west.....	33	57	38.2	79	21	00.3	6,399
Center of road, opposite church.....	33	58	07.9	79	21	19.6	3,416
Eulonia, road fork.....	33	58	30.7	79	21	12.0	2,388
Center of road, opposite large white house.....	33	59	11.0	79	20	54.5	4,330
Center of bridge, northern one of two.....	33	59	39.7	79	20	29.5	3,587

Magnetic declination southeast and northeast along highways, 1° 56' W.

## Near west border of quadrangle.

Center of bridge.....	33	59	51.6	79	15	29.8	.....
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## Along highways in southwest part of quadrangle.

Crossroads, south of church.....	33	45	15.14	79	18	58.6	.....
Crossroads at schoolhouse.....	33	45	51.6	79	19	12.9	3,870
Road fork.....	33	46	14.7	79	19	19.3	2,400
Smiths Mill (old site) on Peedee River, 0.4 mile west of, 25 feet north of gate, in northeast corner of county line road; iron post stamped "Prim. Trav. Sta. No. 16 J, 1918".....	33	46	37.0	79	19	26.2	2,326
Smiths Mill, in ruins of, about 100 feet west of right bank of Peedee River, an 8-inch iron pipe 2 feet above ground.....	33	46	42.2	79	19	00.8	2,210
Crossroads.....	33	46	36.0	79	19	55.8	2,500
Road fork to house.....	33	46	32.1	79	21	29.9	7,960
Crossroads at house.....	33	46	29.5	79	22	12.9	3,636
Center of road at house.....	33	46	30.9	79	22	36.8	2,019
Crossroads.....	33	46	37.4	79	23	09.5	2,839
Crossroad north of Muddy Creek School.....	33	46	41.4	79	24	34.9	7,222
Road fork.....	33	45	53.7	79	25	06.8	5,521
Center of bridge.....	33	45	49.8	79	25	42.9	3,076
Hemingway, 75 feet south of station, 20 feet east of track, on south side of public-road crossing; iron post stamped "Prim. Trav. Sta. No. 17 J, 1918".....	33	45	11.3	79	26	56.1	7,298
Road fork to house.....	33	45	36.8	79	26	47.5	2,685
Center of bridge.....	33	46	37.9	79	26	41.8	6,189
Crossroads at store.....	33	47	02.8	79	26	39.5	2,530
Center of road, opposite flowing well at church and schoolhouse, 150 feet north of church.....	33	47	16.9	79	26	38.2	1,430
Road fork.....	33	48	13.7	79	26	33.5	5,750
Crossroads, 0.25 mile east of Johnsonville.....	33	49	08.8	79	26	31.9	5,579
Crossing on Seaboard Air Line Ry.....	33	50	02.8	79	26	53.9	5,766
South end of railroad.....	33	50	18.4	79	26	50.2	1,603
Second-class road crossing.....	33	50	46.0	79	26	43.1	2,860
Railroad culvert crossing.....	33	50	56.2	79	26	39.2	1,076
Road crossing.....	33	51	44.1	79	26	05.8	5,600
Poston, "Prim. Trav. Sta. No. 7 J, 1918" (previously described).....	33	52	25.18	79	25	36.66	4,830

Magnetic declination along highways in southwest part of quadrangle, 2° 04' W.

## Northwest along highways to north border of quadrangle (Checked spur line. By Oscar Jones in 1918.)

Station 423, tie point, near Eulonia road fork.....	33	58	35.1	79	21	10.0	.....
Road fork.....	33	58	54.7	79	21	43.5	3,444
Eulonia, 32 feet south of southwest corner of depot of Seaboard Air Line Ry., east side of track, north side of public road; iron post stamped "Prim. Trav. Sta. No. 31 J, 1918".....	33	59	06.2	79	22	57.2	6,314
Center of culvert.....	33	59	27.3	79	23	51.3	5,029
Road fork.....	33	59	55.3	79	24	43.1	5,200

## OAKTON QUADRANGLE—Continued.

## South along highways through Britton Neck.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Crossroads, 500 feet northeast of church.....	33	56	14.7	79	20	38.5	.....
Forks of road.....	33	55	25.3	79	20	30.5	5,040
Forks of road.....	33	54	37.7	79	20	22.4	4,860
Forks of road, at Harris Landing.....	33	53	59.7	79	20	19.1	3,853
Forks of road.....	33	53	16.8	79	20	17.8	4,331
Forks of road.....	33	52	36.6	79	20	12.0	4,086
Forks of road.....	33	51	58.6	79	20	02.9	3,920
Forks of road, in southwest corner of, 400 feet north of graveyard; iron post stamped "Prim. Trav. Sta. No. 32 J, 1918".....	33	51	48.8	79	19	51.5	1,380
Center of bridge.....	33	51	14.3	79	19	51.3	3,491
Center of bridge.....	33	50	49.6	79	19	39.1	2,700
Center of bridge.....	33	50	30.6	79	19	10.4	3,089
Center of bridge.....	33	50	06.4	79	18	49.8	3,006
Center of road, opposite house and old store.....	33	49	41.0	79	18	27.2	3,200
Forks of road.....	33	49	14.4	79	18	19.6	2,764
Forks of road, at foot of hill.....	33	48	20.3	79	17	50.1	5,732
Center of bridge.....	33	48	14.1	79	18	22.4	2,063
Center of bridge.....	33	48	02.4	79	18	31.3	1,403
Center of bridge over slough.....	33	47	11.2	79	18	36.0	5,185
Center of bridge over slough.....	33	47	02.3	79	18	49.8	1,471
Smiths Mills, Peedee River, east ferry landing.....	33	46	44.9	79	18	58.6	1,911
Smiths Mills, Peedee River, west ferry landing.....	33	46	43.6	79	19	01.5	282
Smiths Mills (old site) on Peedee River, 0.4 mile west of, 25 feet north of gate, in northeast corner of county line road; iron post stamped "Prim. Trav. Sta. No. 16 J, 1918".....	33	46	37.0	79	19	26.2	2,326

## Magnetic declination through Britton Neck, 2° 02' W.

## East along highways near west border of quadrangle.

Center of bridge over deep creek.....	33	52	58.0	79	29	18.9	.....
Road fork.....	33	52	53.1	79	27	52.1	7,339
Poston, 1.5 miles west of, crossroads of Poston, Lake City, Johnsonville, and Pamlico roads, 0.75 mile southeast of crossing of Seaboard Air Line Ry.....	33	52	56.5	79	27	09.4	3,612

## Magnetic declination near center of west border of quadrangle, 1° 57' W.

## OKATIE QUADRANGLE.

## North along Atlantic Coast Line R. R. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road crossing.....	32	26	51.3	80	59	57.2	.....
Milepost 36.....	32	27	30.3	80	59	38.3	4,260
Road crossing.....	32	28	05.3	80	59	21.3	3,820
Ridgeland station, opposite south end of, 80 feet east of center of track, 150 feet south of main public street crossing railroad, in open ground; iron post stamped "Prim. Trav. Sta. No. 2, 1917 Mac." Azimuth to edge of brick line at southeast corner of brick business block, 250° 31'; azimuth of railroad tangent south, 22° 21'.....	32	28	51.1	80	58	58.2	5,034
Ridgeland siding.....	32	29	19.0	80	58	45.6	3,021

## Along highways near north border of quadrangle.

Ridgeland, Prim. Trav. Sta. No. 2 (previously described).....	32	28	51.1	80	58	58.2	.....
Forks of road.....	32	29	06.0	80	59	03.9	1,586
Prim. Trav. Sta. No. 2.....	32	28	51.1	80	58	58.2	.....
Crossroads.....	32	28	42.0	80	58	40.4	1,785
T road corner, roads north, south, and west (approximately).....	32	28	29.7	80	57	45.6	4,851
Road forks.....	32	28	56.7	80	57	30.1	3,030
Road forks, second-class west.....	32	29	57.9	80	56	34.9	7,789



## OKATIE QUADRANGLE—Continued.

(By H. S. Senseney in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road fork at "Welcome" sign.....	32	28	52.2	80	59	28.4	.....
Ridgeland, "Prim. Trav. Sta. No. 2, 1917 Mac" (previously described).....	32	28	51.1	80	58	58.2	2,589
Ridgeland, 0.30 mile southeast of, crossroads.....	32	28	42.0	80	58	40.4	1,780
Ridgeland, 1 mile southeast of, T road north.....	32	28	10.0	80	58	34.1	3,280
Grahamville, crossroads at.....	32	28	14.1	80	57	54.6	3,410
Second- class road north.....	32	28	44.2	80	56	27.2	8,080
Crossroads, temporary bench mark 20.9.....	32	28	53.6	80	55	52.8	3,097
Crossroads, Elev. 32.7.....	32	28	15.9	80	55	21.6	4,650
Crossroads, Elev. 12.7.....	32	28	05.4	80	54	58.6	2,236
Bridge over ditch.....	32	27	51.8	80	54	28.3	2,941

## Along highways through center of quadrangle.

Road forks. Elev. 18.6.....	32	27	33.8	80	53	47.7	3,981
North end of bridge.....	32	27	10.4	80	54	00.1	2,596
Seaboard Air Line Ry., south end of bridge over.....	32	26	41.5	80	53	46.3	3,148
Crossroads, at store.....	32	25	43.0	80	53	46.1	5,917
Crossroads.....	32	25	00.4	80	53	58.2	4,419
Road forks.....	32	24	25.6	80	54	18.8	3,938
Ridgeland, 8 miles southeast of, 25 feet south and 7 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 5 S, 1918".....	32	23	12.3	80	54	28.6	7,460
Small wooden culvert, blazed tree near, on west side of road.....	32	21	47.1	80	55	07.3	9,220
Road forks.....	32	21	29.4	80	55	15.6	1,929
T road east through gate (Jasper and Beaufort county line).....	32	21	07.8	80	55	25.1	2,330
Road forks.....	32	20	28.4	80	55	42.3	4,251
T road east.....	32	20	08.5	80	55	42.4	2,011
Crossroads.....	32	19	51.5	80	55	43.0	1,711
T road east.....	32	19	23.0	80	55	59.1	3,194
Okatie post office, opposite, center of road.....	32	19	13.4	80	56	03.9	1,055
T road east.....	32	18	31.5	80	56	05.8	4,240

## Along highways through center of quadrangle.

T road northwest.....	32	18	07.5	80	56	06.5	2,428
Road forks.....	32	17	26.9	80	56	17.10	4,196
T road south.....	32	17	20.6	80	55	36.2	3,569
Indian Hill Church, in front of, road forks.....	32	17	19.4	80	53	45.1	9,543
Road forks.....	32	17	08.8	80	53	15.8	2,731
Road forks.....	32	17	01.4	80	52	57.1	1,769
Road forks, gate north.....	32	16	43.9	80	52	17.6	3,830
Second- class crossroad.....	32	16	03.3	80	51	37.2	5,375
Road forks.....	32	15	38.5	80	51	10.3	3,403

Magnetic declination for north border of quadrangle, 0° 07' E.; for center, 0° 08' E.; for south border, 0° 16' E.

## OLAR QUADRANGLE.

Northwest along highways in southwest corner of quadrangle. (By H. S. Senseney in 1917-18.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Crossroads.....	33	00	16.0	81	12	25.3	2,757
Road forks.....	33	00	38.1	81	13	02.3	3,870
Road crossing, 105 feet south of milepost 207.....	33	00	42.0	81	13	40.5	3,272
Sycamore, "Prim. Trav. Sta. No. 84 Mac." (described later).....	33	02	12.4	81	13	19.4	9,314

## OLAR QUADRANGLE—Continued.

Northeast along Seaboard Air Line Ry. (By E. L. McNair in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road crossing.....	33	00	28.8	81	13	43.4	.....
Road crossing.....	33	00	41.9	81	13	40.4	1,355
Public-road crossing at milepost 208.....	33	01	33.9	81	13	28.5	5,350
Road crossing.....	33	01	48.8	81	13	25.0	1,535
Sycamore station, about 165 feet north of, near road crossing, 22 feet east of center of track; iron post stamped "Prim. Trav. Sta. No. 84, 1917 Mac." Azimuth to switch stand at north end of siding, 190° 16' 00"; to switch stand at south end of siding, 12° 20' 00"; to right-hand edge of square post in northwest cor- ner of church tower, 57° 09' 37".....	33	02	12.4	81	13	19.4	2,431
Switch stand at north end of siding.....	33	02	40.0	81	13	13.3	2,835
Public-road crossing.....	33	03	24.7	81	13	03.0	4,610
Public-road crossing, at spur.....	33	04	06.1	81	13	53.5	4,262
Public-road crossing.....	33	04	57.9	81	12	41.6	5,333
Ulmers station, directly opposite and across track from, 50 feet east of center of track; iron post stamped "Prim. Trav. Sta. No. 86, Mac, 1917." Azimuth to center of tower on schoolhouse, 180° 19' 45"; to Baptist Church spire, 205° 55' 30"; of railroad tangent north 3 miles, 191° 00'.....	33	05	43.0	81	12	30.5	4,653
Road crossing, 70 feet north of milepost 214.....	33	06	42.5	81	12	17.4	6,113
Pile bridge over creek.....	33	07	08.3	81	12	11.5	2,660
Salkehatchie River, 730 feet north of milepost 215.....	33	07	40.1	81	12	04.1	3,270
Schofield station, road crossing 1,400 feet north of.....	33	08	08.4	81	11	57.6	2,915
Intersection of two long tangents at angle of 5°, 395 feet north of road crossing.....	33	08	44.2	81	11	49.3	3,690
Milepost 217.....	33	09	14.8	81	11	39.0	3,220
Road crossing, at signpost marked "Station 1 mile".....	33	09	50.8	81	11	26.9	3,780
Road crossing.....	33	10	06.9	81	11	21.5	1,690
Olar station, at north end of, public-street crossing.....	33	10	51.8	81	11	06.4	4,720
Second-class road crossing.....	33	11	22.5	81	10	56.1	3,220
Road crossing.....	33	12	10.3	81	10	40.0	5,020
Road crossing.....	33	12	30.8	81	10	33.1	2,150
Road crossing.....	33	13	07.8	81	10	30.7	3,754
Govan station, opposite and across track from north end of, 27 feet east of center of track, 115 feet south of road crossing; iron post stamped "Prim. Trav. Sta. No. 87, Mac, 1917." Azimuth to crossing signpost, 1,725 feet south, 359° 48' 55"; to switch stand at south end of siding, 359° 54' 40".....	33	13	24.9	81	10	30.6	1,720
Road crossing.....	33	13	49.4	81	10	30.1	2,482
Road crossing.....	33	14	18.5	81	10	13.6	3,257
Road crossing.....	33	14	36.1	81	10	03.3	1,985

## Southeast along Bamberg, Ehrhardt &amp; Walterboro Ry.

Public-road crossing, at spur siding.....	33	14	51.9	81	02	32.7	.....
Second-class road crossing.....	33	14	10.4	81	02	24.3	4,251
Second-class road crossing, at switch stand, spur siding.....	33	13	06.2	81	02	06.3	6,620
Road crossing, at milepost marked "Ehrhardt 8".....	33	12	43.0	81	02	00.1	2,400
Public-road crossing, just south of spur siding.....	33	11	20.7	81	01	35.7	8,581
Public-road crossing.....	33	10	46.6	81	01	20.9	3,670
Road crossing.....	33	10	13.2	81	01	10.1	3,493
Intersection of railway tangents.....	33	09	34.5	81	01	04.7	3,945
Little Salkehatchie River, pile bridge over main channel of.....	33	09	14.9	81	00	58.5	2,050
Road crossing.....	33	08	35.0	81	00	54.9	4,047
Intersection of long tangents.....	33	07	53.2	81	01	07.7	4,355
Road crossing.....	33	07	27.7	81	01	07.4	2,575
Road crossing.....	33	06	48.8	81	01	06.8	3,940
Ehrhardt station, 200 feet N. 56° W. from, about 22 feet south of center of main track, 6 feet southeast of fence corner; iron post stamped "Prim. Trav. Sta. No. 90, 1917 Mac." Azimuth to Lutheran Church spire, 49° 43' 45".....	33	05	54.4	81	00	51.7	5,648
Public-road crossing.....	33	05	47.3	81	00	34.7	1,618

## Southeast along highways in north central part of quadrangle. (By H. S. Senseney in 1918.)

Olar station, road crossing at north end of.....	33	10	51.8	81	11	06.4	.....
Road fork.....	33	10	17.9	81	10	34.5	4,368
Fence line northeast, at blazed pine tree.....	33	10	10.5	81	09	46.6	4,147
Crossroads.....	33	09	59.0	81	09	16.1	2,842
Road forks.....	33	09	51.1	81	09	03.9	1,305
Road forks.....	33	09	55.4	81	08	40.9	2,001
Road forks.....	33	10	02.2	81	08	25.7	1,461

## OLAR QUADRANGLE—Continued.

Southeast along highways in north central part of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road forks.....	33	10	25.3	81	07	38.0	4,679
Road forks, at road south.....	33	10	06.0	81	07	00.6	3,725
Road forks.....	33	09	34.2	81	05	48.6	6,922
Ehrhardt, 6.5 miles northwest of, 0.5 mile south of Colston Branch, 15 feet north and 12 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 14 S, 1918".....	33	09	25.1	81	05	43.3	1,021
Road fork.....	33	09	17.6	81	05	28.3	1,483
Road fork south.....	33	09	12.3	81	04	55.9	2,812
T road south.....	33	09	07.7	81	04	26.7	2,521
Crossroads, at mail box 68.....	33	08	41.0	81	04	29.6	2,718
Road forks.....	33	08	03.2	81	04	26.8	3,821
Crossroads.....	33	07	42.7	81	03	49.4	3,798
Crossroads.....	33	07	20.3	81	03	19.4	3,411
Crossroads.....	33	07	12.7	81	03	07.0	1,305
Crossroads.....	33	06	40.8	81	02	14.1	5,535
Center of road, in front of Savannah Creek (colored) Church.....	33	06	18.1	81	01	36.2	3,955
Ehrhardt, "Prim. Trav. Sta. No. 90, 1917 Mac" (previously described).....	33	05	54.4	81	00	51.7	4,479

## Southwest along north border of quadrangle.

North end of most northerly of five small bridges.....	33	14	36.5	81	09	01.8	.....
Second-class crossroads.....	33	14	16.0	81	09	15.3	2,375
Crossroads.....	33	13	59.4	81	09	28.6	2,020
Second-class T road east.....	33	13	33.1	81	09	47.9	3,122
T road west.....	33	13	16.3	81	09	57.6	1,884
Govan, "Prim. Trav. Sta. No. 87, 1917 Mac" (previously described).....	33	13	24.9	81	09	30.6	2,936

Magnetic declination for north central part of quadrangle, 0.3° W.; for north part, 0.2° W.

## Southeast along highways through center of quadrangle. (By H. S. Senseney in 1918.)

Rosemary Church, crossroads.....	33	08	16.3	81	14	50.3	.....
Ulmers, 3 miles northwest of, 2 miles southeast of Big Forks School, 15 feet north of road forks; iron post stamped "Prim. Trav. Sta. No. 12 S, 1918. Elev. 170 feet".....	33	07	59.8	81	14	19.3	3,116
Road forks.....	33	07	23.0	81	13	48.8	4,532
North end of bridge over Wells Branch.....	33	07	02.6	81	13	39.7	2,203
T road southwest.....	33	06	43.9	81	13	25.1	2,268
T road southwest.....	33	06	19.2	81	13	05.3	3,007
Crossroads.....	33	05	41.3	81	12	48.7	4,078
Ulmers, "Prim. Trav. Sta. No. 86 Mac, 1917".....	33	05	43.0	81	12	30.5	1,556

Magnetic declination for center of quadrangle, 0.4° W.

## North along highways near west border of quadrangle. (By H. S. Senseney in 1918.)

Road forks at M. J. Delk's mail box.....	33	11	04.0	81	14	59.3	.....
Junction of five roads.....	33	11	18.3	81	14	32.2	2,720
Crossroads, mail box in southeast corner.....	33	11	43.8	81	14	35.9	2,600
Road forks.....	33	11	58.8	81	14	35.3	1,515
Crossroads.....	33	12	15.4	81	14	38.9	1,708
Oak Grove School, crossroads west of.....	33	13	05.9	81	14	48.9	5,176
Fork of road.....	33	06	30.0	81	00	10.3	.....
Crossroads.....	33	05	57.0	81	00	20.1	3,427
Ehrhardt, "Prim. Trav. Sta. No. 90, 1917 Mac." (previously described).....	33	05	54.4	81	00	51.77	2,707

Magnetic declination for west border of quadrangle, 0.4° W.

## ORANGEBURG QUADRANGLE.

Southeast along Southern Ry. (By E. L. McNair in 1918.)

Station.	Latitude			Longitude.			Distance between stations.  Fect.
	°	'	"	°	'	"	
Road crossing at curve.....	33	17	09.9	80	59	37.0	.....
Midway station, across track from and nearly opposite west end of, 22 feet north of center of track, about 50 feet west of public- road crossing; iron post stamped "Prim. Trav. Sta. No. 1, 1918 Mac." Azimuth to figure 1 on mile post 10, distant 1,100 feet, 100° 58' 38".....	33	17	00.6	80	58	41.2	4, 824
Second-class road crossing.....	33	16	47.0	80	57	55.4	4, 130
Road crossing.....	33	16	29.2	80	56	54.8	5, 448
Second-class road crossing.....	33	16	14.0	80	55	53.7	5, 410
Second-class road crossing.....	33	16	01.3	80	55	02.9	4, 500
Milepost 5.....	33	15	45.5	80	53	57.3	5, 795
Embreestation, just east of, iron-girder bridge over Edisto River, center of.....	33	15	37.4	80	53	17.2	3, 502
Intersection of tangents at angle of 6° 40'.....	33	15	35.6	80	52	35.5	3, 540
Crossing of narrow-gage railroad.....	33	15	32.8	80	52	15.9	1, 690
Farm-road crossing.....	33	15	23.7	80	51	12.3	5, 480
Milepost 2.....	33	15	21.0	80	50	53.5	1, 615
Road crossing.....	33	15	09.5	80	49	33.6	6, 885
Branchville station, 1,380 feet west of, 27 feet north of center of main track, between main line and Y line, 75 feet west of large pine tree, 103 feet west of post marked "S. A. O. 3"; iron post stamped "Prim. Trav. Sta. No. 2, 1918 Mac." Azimuth to steeple of negro church, 115° 30' 15"; to negro schoolhouse, 186° 37' 15".....	33	15	06.6	80	49	11.2	1, 920
Branchville, main public-street crossing just west of center of main track.....	33	15	04.2	80	48	57.1	1, 222

Along highways near west border of quadrangle. (By Oscar Jones in 1919.)

Copes, 0.75 mile east of, at T road south to Bamberg, on north side of road; iron post stamped "Prim. Trav. Sta. No. 76, 1918. Elev. 168".....	33	22	24.7	80	59	52.7	.....
St. George School, 500 feet west of, at road fork, permanent bench mark (probably an iron post). "Elev. 315".....	33	28	45.7	80	59	46.9	.....
Road fork.....	33	28	37.2	80	58	57.1	4, 308
Crossroads.....	33	28	42.7	80	58	31.6	2, 238
Crossroads.....	33	29	02.0	80	58	16.4	2, 338
Crossroads.....	33	29	37.4	80	57	52.8	4, 094

Magnetic declination for west border of quadrangle, 0° 12' W.

From Branchville northeast along public road to Bowman. (By E. L. McNair in 1918.)

Branchville station, 1,380 feet west of, Prim. Trav. Sta. No. 2, 1918 Mac. (previously described).....	33	15	06.6	80	49	11.2	.....
Forks of road.....	33	15	39.0	80	48	14.8	5, 805
Forks of road, about 175 feet east of Zion church.....	33	15	53.6	80	47	57.2	2, 101
Forks of road, at mail box.....	33	16	34.0	80	46	57.6	6, 503
Forks of road.....	33	16	51.8	80	46	34.8	2, 643
Small bridge, at forks of road.....	33	16	56.3	80	45	47.0	4, 086
Crossing of Branchville & Bowman R. R.....	33	17	00.8	80	45	22.1	2, 161
Second-class road.....	33	17	06.5	80	45	04.9	1, 571

From Branchville north along Southern Ry. to Orangeburg.

Public-road crossing.....	33	15	34.0	80	49	05.9	.....
Road crossing.....	33	16	08.9	80	49	11.4	3, 565
Road crossing.....	33	16	58.8	80	49	19.4	5, 085
Second-class road crossing.....	33	17	42.4	80	49	26.3	4, 450
Road crossing, at Sixty-six flag station.....	33	18	29.6	80	49	33.8	4, 820
Road crossing.....	33	19	08.3	80	49	40.0	3, 941
Road crossing.....	33	20	00.1	80	49	48.2	5, 286
Road crossing.....	33	20	38.3	80	49	54.3	3, 895
Road crossing.....	33	21	17.7	80	50	00.6	4, 024
Road crossing.....	33	21	35.6	80	50	03.4	1, 825
Rowesville station, 550 feet north of, 28 feet east of center of track, 70 feet south of milepost 71; iron post stamped "Prim. Trav. Sta. No. 11, 1918 Mac." Azimuth to Methodist Church steeple, 46° 08' 15".....	33	22	23.22	80	50	10.65	4, 853
Public-road crossing.....	33	22	49.6	80	50	15.2	2, 689
Road crossing, at milepost 72.....	33	23	07.6	80	50	18.0	1, 840

## ORANGEBURG QUADRANGLE—Continued.

From Branchville north along Southern Ry. to Orangeburg—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Road crossing.....	33 23 41.2	80 50 23.4	3,430
Farm-road crossing.....	33 24 06.4	80 50 27.3	2,570
Road crossing.....	33 24 56.0	80 50 35.2	5,061
Road crossing.....	33 25 32.2	80 50 41.0	3,691
Road crossing, at Felder flag station.....	33 25 57.8	80 50 45.1	2,609
Farm-road crossing.....	33 26 21.7	80 50 48.8	2,440
Road crossing.....	33 26 56.4	80 50 54.4	3,545
Road crossing.....	33 27 21.5	80 50 58.4	2,555
Road crossing.....	33 27 42.5	80 51 01.7	2,145
Public-road crossing.....	33 28 27.2	80 51 08.8	4,555
Orangeburg, about 200 feet southwest from crossing of Southern Ry. over the Atlantic Coast Line R. R.; iron post stamped "Prim. Trav. Sta. No. 12, 1918 Mac.".....	33 29 05.82	80 51 16.16	3,958

Magnetic declination for southeast corner of quadrangle, 0° 16' W.

Northwest along highway to Midway. (By E. L. McNair in 1918.)

T road southwest.....	33 15 04.8	80 55 50.1	.....
Private road southwest, 45 feet northwest to two mail boxes.....	33 15 49.4	80 57 15.8	8,563
Forks of road, driveway to old residence of William Gilmore Simms (the author).....	33 16 08.3	80 57 29.0	2,216
Midway; iron post No. 1.....	33 17 00.6	80 58 41.2	8,097

From Copes northeast along Atlantic Coast Line R. R. to Orangeburg. (By Oscar Jones and E. L. McNair in 1918-19.)

Road crossing.....	33 23 04.4	80 59 20.2	.....
Road crossing, on Orangeburg and Cameron road.....	33 23 10.8	80 59 02.7	1,621
Road crossing.....	33 23 53.1	80 57 48.5	7,600
Road crossing.....	33 24 11.8	80 57 26.2	2,670
Road crossing.....	33 24 25.1	80 57 10.3	1,910
Road crossing.....	33 24 58.7	80 56 30.2	4,800
Road crossing.....	33 25 23.2	80 56 01.0	3,500
Road crossing.....	33 25 55.2	80 55 22.7	4,590
Cordova, tie point.....	33 26 08.01	80 55 07.47	1,826
Road crossing.....	33 26 46.0	80 54 22.2	5,428
Road crossing, near intersection of tangents.....	33 27 11.9	80 53 51.4	3,695
Public-road crossing.....	33 28 04.6	80 53 02.4	6,753
Center of span across Edisto River.....	33 28 30.4	80 52 24.9	4,108
Orangeburg Prim. Trav. Sta. No. 12 (previously described).....	33 29 05.82	80 51 16.16	6,839

From Rowesville west along highway to Copes. (By Oscar Jones in 1919.)

Rowesville, Prim. Trav. Sta. No. 11, 1918 Mac. (previously described).....	33 22 23.22	80 50 10.05	.....
Center of bridge.....	33 22 15.2	80 51 02.5	4,472
Center of bridge.....	33 21 28.7	80 51 47.5	6,048
T road northeast.....	33 21 08.4	80 52 50.3	5,709
West end of bridge over North Fork of Edisto River.....	33 21 19.9	80 53 14.3	2,347
Road fork.....	33 21 20.2	80 53 54.3	3,388
Road fork, at Bethlehem Church.....	33 20 51.3	80 54 56.9	6,058
Center of small culvert.....	33 20 10.5	80 55 55.6	6,461
Canaan Church, 1,000 feet southwest of, in southwest corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 75 J, 1919".....	33 19 39.5	80 56 30.8	4,326
Center of culvert, 100 feet west of house.....	33 20 30.6	80 57 02.3	5,824
Road fork.....	33 21 09.2	80 57 26.4	4,402
T road north.....	33 21 26.4	80 57 57.1	3,139
Road fork.....	33 21 59.0	80 58 52.1	5,707
Road fork.....	33 22 25.2	80 59 31.8	4,282
Copes, 0.75 mile east of, Prim. Trav. Sta. No. 76 (previously described).....	33 22 24.73	80 59 52.68	1,773

Magnetic declination for quadrangle, 0° 21' E.

## ORANGEBURG QUADRANGLE—Continued.

Northwest along public road in northwest corner of quadrangle. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road crossing (McNair).....	33	28	04.59	80	53	02.39	.....
Road fork at gin.....	33	28	52.4	80	52	50.6	4, 936
Road fork.....	33	28	52.0	80	53	25.5	2, 957
Orangeburg, 3 miles west of, at road fork, 20 feet west of granite monument marked "This road connecting Orangeburg with Ninety-six was laid out in 1770. Eutaw Chapter D. A. R." "U. S. P. B. Elev. 229" on post.....							
Center of culvert, at road forks.....	33	28	47.3	80	54	13.6	4, 095
Road forks.....	33	28	49.3	80	54	36.9	1, 976
Center of bridge over Spring Branch.....	33	29	29.6	80	55	36.1	6, 455
	33	29	47.7	80	55	58.9	2, 660

From Orangeburg southeast along public road in northeast corner of quadrangle to Bowman.

Orangeburg, Prim. Trav. Sta. No. 12 (previously described).....	33	29	05.82	80	51	16.16	.....
Granite monument with tablet, marking Orangeburg and Charleston road, established 1737.....	33	28	19.2	80	50	54.6	5, 053
T road southwest.....	33	27	48.6	80	50	16.4	4, 483
Road fork.....	33	27	27.3	80	49	35.0	4, 119
Road fork.....	33	27	09.0	80	48	59.6	3, 530
Road fork at gin.....	33	26	45.6	80	48	14.6	4, 489
Road fork.....	33	26	32.2	80	47	50.1	2, 483
Road fork.....	33	26	02.1	80	47	13.9	4, 320
Center of bridge.....	33	25	44.6	80	46	46.2	2, 943
Orangeburg, 7 miles southeast of, on Orangeburg and Charleston road, 150 feet northeast of crossroads to Rowesville, at southwest corner of church; bench-mark post, U. S. Experiment Station, Drainage. Elev. 172.1.....							
	33	25	19.8	80	45	26.6	7, 201

From drainage station southeast along public road to Rowesville in northeast corner of quadrangle.

Bench-mark post, U. S. Experiment station.....	33	25	19.75	80	45	26.63	.....
Road fork.....	33	24	43.6	80	46	19.1	5, 757
Center of bridge.....	33	24	30.1	80	46	42.6	2, 420
Road fork.....	33	24	10.8	80	47	24.2	4, 024
Road fork.....	33	23	14.8	80	48	10.2	6, 878
Road fork.....	33	23	01.3	80	48	44.3	3, 197
Road fork.....	33	22	40.6	80	49	18.1	3, 553
Rowesville Prim. Trav. Sta. No. 11 Mac., 1918 (previously described).....	33	22	23.22	80	50	10.65	4, 786

Magnetic declination for northeast corner of quadrangle, 27' W.

Southeast along Atlantic Coast Line R. R. in northeast corner of quadrangle. (By Oscar Jones in 1919.)

Road crossing.....	33	29	42.4	80	50	11.3	.....
Road crossing.....	33	29	23.8	80	50	44.6	3, 390
Orangeburg primary traverse post No. 12 (previously described).....	33	29	05.82	80	51	16.16	3, 228

Northeast along public road in northeast corner of quadrangle. (By Oscar Jones in 1919.)

Bench-mark post (previously described).....	33	25	19.75	80	45	26.63	.....
Road fork.....	33	26	06.8	80	45	08.6	4, 993
Bend in road, opposite house at sawmill.....	33	26	59.1	80	45	35.5	5, 752
Center of small bridge over ditch, 200 feet north of sawdust pile.....	33	27	03.0	80	45	35.6	402
Road fork.....	33	27	37.3	80	45	34.6	3, 460

Northwest across northeast corner of quadrangle.

Road fork.....	33	29	11.2	80	45	23.8	.....
Road fork.....	33	29	03.2	80	46	19.4	4, 781
Road fork.....	33	29	15.7	80	46	51.0	2, 964
Road fork.....	33	29	25.8	80	47	12.9	2, 116
Center of bridge, at road fork.....	33	29	58.0	80	47	59.5	5, 120

Magnetic declination for northeast corner of quadrangle, 15' E.

## ORANGEBURG QUADRANGLE—Continued.

From Orangeburg north along public road to post 79. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Orangeburg, "Prim. Trav. Sta. No. 12" (previously described).	33	29	05.82	80	51	16.16	.....
Orangeburg depot, on Southern Ry., opposite semaphore, center of track.....	33	29	36.3	80	51	19.8	3,098
Crossroads.....	33	29	47.4	80	51	48.5	.....
Road fork.....	33	29	58.9	80	52	15.6	2,572

## PARKSVILLE QUADRANGLE.

Along highways near south border of quadrangle. (By B. H. Yoakum in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
J. A. Hamilton's store, on Scott's Ferry road, 120 feet west of, T road south.....	33	45	34.0	82	02	40.1	.....
Frank West's store, on Scott's Ferry road, crossroads at.....	33	45	20.2	82	03	11.6	3,000
Prescott's store, opposite southeast corner of, center of main road.....	33	45	20.0	82	04	18.6	5,666

Magnetic declination along south border of quadrangle, 0° 42' E.

Near southeast corner of quadrangle. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Edgefield, 5 miles southwest of, on Parksville road, at road forks, north side of road, 5 feet north of J. F. Talbert's mail box; iron post stamped "Prim. Trav. Sta. No. 92 J, 1919".....	33	47	30.8	82	00	12.9	2,080

South near east border of quadrangle. (By E. L. McNair in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Center of creek, at road crossing, no bridge, on Saluda and Greenwood county line.....	33	58	26.1	82	00	11.7	.....
Crossroads, near negro church, 0.5 mile south of Ougst's store.....	33	58	33.9	82	00	35.9	2,183
T road easterly, at oak tree.....	33	57	36.5	82	00	45.8	5,861
Center of bridge over Big Mountain Creek, 70 feet south from road forks.....	33	56	58.5	82	01	00.8	4,037
Forks of road, at Williams's store.....	33	56	44.6	82	00	41.2	2,172
Forks of road.....	33	56	05.0	82	00	28.7	4,136
Forks of road.....	33	55	47.1	82	00	31.9	1,832
Forks of road.....	33	55	15.7	82	00	25.8	3,215
Creek crossing, no bridge.....	33	54	41.3	82	00	14.3	3,611
Pleasant Lane post office, 110 feet north of Timmerman's store, 35 feet west of center of road, 2 feet southeast of electric-light pole; iron post stamped "Prim. Trav. Sta. No. 7, 1919 Mac."							
Azimuth to north edge of chimney on north end of Mr. Timmerman's house, 217° 05' 00".....	33	54	07.8	82	00	01.4	3,557
Center of middle span of iron bridge across Turkey Creek.....	33	53	28.1	82	00	06.8	4,036
Edgefield, 5 miles southwest of, Prim. Trav. Sta. No. 92 (previously described).....	33	47	30.8	82	00	12.9	.....

Magnetic declination along east edge of quadrangle, 00° 13' W.

## PEEPLS QUADRANGLE.

Northwest along Charleston &amp; Western Carolina Ry. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Trestle over creek.....	32	58	23.0	81	15	26.9	.....
Road crossing.....	32	58	54.1	81	16	11.7	4,945
Milepost 55.....	32	59	15.9	81	16	43.2	3,475
Public-road crossing.....	32	59	55.6	81	17	40.6	6,320

## PEEPLS QUADRANGLE—Continued.

West along highways near south edge of quadrangle. (By H. S. Senseney in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Estill Prim. Trav. Sta. No. 78, 1917 Mac (Varnville quadrangle).	32	45	16.1	81	14	29.6	.....
T road south at sawmill	32	45	14.0	81	15	02.1	2,785
Crossroads.	32	45	16.2	81	16	14.8	6,213
Road forks.	32	45	16.7	81	17	03.3	4,140
Road forks.	32	45	15.1	81	17	25.9	1,939
Second-class road north.	32	45	13.5	81	18	56.4	7,732
Crossroads.	32	45	26.6	81	19	53.3	5,036
Road fork.	32	45	46.9	81	20	24.4	3,359
Road fork.	32	45	18.4	81	20	31.2	2,930
T road east.	32	45	08.3	81	20	34.6	1,061
Road fork.	32	45	02.5	81	20	39.1	707

Magnetic declination for south border of quadrangle, 0.3° E.

## North along east side of Savannah River.

South end of more southern of two small bridges.	32	45	19.2	81	22	02.8	.....
T road east, at blazed tree	32	45	42.0	81	22	05.0	2,306
Crossroads.	32	46	05.8	81	22	06.6	2,415
Springfield Church, 0.25 mile north of, crossroads.	32	46	42.6	81	22	13.9	3,765
T road east.	32	47	17.5	81	22	30.6	3,810
Second-class T road east.	32	47	45.9	81	22	54.8	3,530
Crossroads, at small wooden bridge.	32	48	05.8	81	23	06.4	2,245
T road west.	32	48	18.6	81	23	12.1	1,380
T road east.	32	48	27.3	81	23	16.2	950
Crossroads.	32	48	56.0	81	23	30.2	3,130
Road forks.	32	49	34.6	81	23	35.0	3,925
St. Matthews Church, crossroads in front of.	32	49	56.7	81	23	39.3	2,263
South end of wooden culvert.	32	50	20.6	81	23	58.2	2,910
Ruddell, 220 feet east of S. Pender's store, on south side of road, at road forks; iron post stamped "Prim. Trav. Sta. No. 8 S, 1918." Azimuth to head of nail in blaze on pine tree, 520 feet distant, 157° 30' 05".	32	50	54.2	81	24	27.9	4,236

## East through center of quadrangle.

Road fork.	32	50	50.7	81	23	50.3	3,229
T road south at mail box.	32	51	06.9	81	23	01.8	4,449
T road north.	32	51	12.7	81	22	20.2	3,603
Road fork.	32	51	11.8	81	21	59.0	1,800
King Creek School, north of well and blazed tree, center of road.	32	51	11.6	81	21	29.3	2,526
Road forks.	32	51	05.6	81	20	43.5	3,962
Road forks.	32	51	13.4	81	20	32.3	1,241
Road forks.	32	51	30.9	81	19	59.7	3,298
Road forks.	32	51	36.3	81	19	24.4	3,054
Road forks, at C. D. Smart's mail box 40.	32	51	51.9	81	18	35.3	4,477
T road north.	32	52	15.0	81	17	39.8	5,275
Road fork, at blazed tree.	32	52	14.3	81	17	35.9	341
Crossroads.	32	52	46.6	81	16	29.3	6,514
Railroad crossing.	32	52	47.8	81	16	26.0	310
Emanuel Church, crossroads.	32	52	55.4	81	16	03.7	2,047
Road forks.	32	52	17.6	81	15	21.4	5,249

## West along north border of quadrangle.

T road south.	32	59	52.8	81	20	45.8	.....
Second-class road north.	32	59	39.1	81	21	30.5	4,050
Crossroads.	32	59	26.6	81	21	37.9	1,410
Road forks.	32	59	49.6	81	22	13.8	3,832

Magnetic declination for east side of quadrangle 0.0° W.; for center, 0.0° W.



## PEEPLS QUADRANGLE—Continued.

South along highways near west border of quadrangle. (By H. S. Senseney in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road fork.....	32	59	59.3	81	28	27.5	.....
Crossroads.....	32	59	32.7	81	28	12.4	2,081
Crossroads, at gate west.....	32	59	09.6	81	28	04.1	2,437
T road east, at blazed pine tree.....	32	58	39.3	81	27	44.4	3,492
Road fork.....	32	58	15.0	81	27	42.2	2,469
Road fork.....	32	57	44.7	81	27	42.8	3,068
Road fork, south of creek.....	32	57	27.5	81	27	47.4	1,788
Crossroads.....	32	56	51.4	81	27	22.1	4,231
Crossroads, at telephone line.....	32	56	33.8	81	27	05.1	2,298
Crossroads.....	32	56	14.8	81	26	56.9	2,048
Road fork.....	32	55	32.2	81	26	30.9	4,844
T road north through gate.....	32	55	20.6	81	26	18.9	1,559
T road west.....	32	55	24.9	81	25	32.8	3,951
Road fork.....	32	54	35.8	81	25	20.7	5,068
Old crossroads, at blazed oak tree.....	32	54	05.2	81	25	49.6	3,879
Road fork, 130 feet south of bridge, near negro schoolhouse.....	32	53	24.9	81	25	47.1	4,182
Crossroads.....	32	52	54.1	81	25	41.7	3,139
Center of road, in front of triangular blaze on pine tree.....	32	51	35.6	81	25	05.7	8,511
Crossroads.....	32	51	11.5	81	24	50.8	2,750
Hampton and Barnwell county line, fence corner.....	32	50	59.6	81	24	45.3	1,292
Road fork.....	32	50	48.1	81	24	38.4	1,300
Ruddell, Prim. Trav. Sta. No. 8 (previously described).....	32	50	54.2	81	24	27.9	1,083
East end of bridge.....	32	50	28.2	81	25	12.3	4,640
Cohens Bluff, Army bench mark No. 26 (on checked spur line). Azimuth to triangle blaze on pine tree, 95° 20' 50".....	32	50	27.4	81	25	32.0	1,682

## PINELAND QUADRANGLE.

North along highways near east border of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road forks.....	32	32	08.7	81	00	51.5	.....
Angle in road, on center line of both sides.....	32	33	55.8	81	01	01.8	10,858
Byroad west, about 75 feet north of church.....	32	34	58.3	81	00	17.6	7,363
Gillisonville Public School building, 280 feet S. 74° 27' E. from flagstaff on tower, 55 feet N. 28° W. from corner post at south- east corner of schoolhouse yard, 10 feet east of fence line; iron post stamped "Prim. Trav. Sta. No. 29, 1917 Mac.".....	32	36	37.0	81	00	01.2	.....
Second-class T road west at fence corner.....	32	37	41.2	81	00	00.8	.....
Road forks, right-hand road to Possum Creek.....	32	38	39.8	81	00	13.6	6,025
Crossroads.....	32	38	51.3	81	00	16.9	1,201
Center of bridge, at crossing of creek.....	32	39	24.0	81	00	38.2	3,772
Grays, 35 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 30, 1917 Mac.".....	32	40	23.0	81	01	13.4	0,672
Bridge over creek.....	32	40	43.5	81	00	20.4	4,990

## South along Seaboard Air Line Ry.

Milepost 188.....	32	44	17.0	81	14	31.5	.....
Second-class road crossing.....	32	43	55.5	81	14	32.0	2,165
Public-road crossing.....	32	43	32.4	81	14	32.5	2,335
Road crossing.....	32	42	49.4	81	14	33.5	4,355
Public-road crossing.....	32	41	25.1	81	14	35.4	8,520
Scotia station, public-road crossing.....	32	40	49.3	81	14	36.3	3,615
Second-class road crossing.....	32	39	48.4	81	14	37.7	6,155
Road crossing.....	32	39	20.8	81	14	38.4	2,800
Second-class road crossing.....	32	38	25.2	81	14	39.7	5,615
Road crossing.....	32	37	12.0	81	14	41.4	7,405
Public-road crossing.....	32	36	36.5	81	14	42.3	3,585
Garnett station, directly opposite south end of, 100 feet south of public-road crossing, 28 feet east of center of track, 85 feet north of water tank; iron post stamped "Prim. Trav. Sta. No. 79 1917 Mac." Azimuth to north end of switch stand, 180° 27'.....	32	36	21.0	81	14	42.3	1,569
Public-road crossing.....	32	35	45.7	81	14	46.0	3,574
Switch stand at sawmill spur.....	32	35	02.3	81	14	52.2	4,425

Only one observation for magnetic declination, 0° 0.5' E.

## PINELAND QUADRANGLE—Continued.

West near north border of quadrangle. (By H. S. Senseney in 1917-18.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Horse Gall, T road east at.....	32	44	37.4	81	02	36.6	Feet.
Road forks.....	32	44	37.5	81	02	44.0	.....
Road forks.....	32	43	54.0	81	02	56.4	629
Crossroads, blazed pine tree north.....	32	43	48.1	81	03	03.1	4,530
Bend in road, at J. R. Peebles's mail box.....	32	43	40.7	81	03	46.4	822
Road forks at small cabin.....	32	43	48.6	81	04	16.8	3,774
Gate.....	32	43	20.4	81	04	50.7	2,715
Nixville, 4 miles southeast of, 1.5 miles east of Mount Carmel, 20 feet south and 10 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 3 S, 1917". Azimuth to peak of roof of house east of road, 315 feet distant, 224° 39' 30".....	32	42	48.5	81	05	15.5	4,061
Road forks.....	32	43	05.9	81	05	53.1	3,859
Mount Carmel Church, T road at.....	32	43	28.4	81	07	15.8	3,659
Road forks.....	32	43	56.4	81	08	05.4	7,425
T road west near Smith's store.....	32	44	06.7	81	08	18.9	5,092
Nixville, crossroads at.....	32	44	32.0	81	09	05.7	1,554
Nixville School, T road south at.....	32	44	39.4	81	09	58.6	4,747
Crossroads.....	32	44	52.1	81	11	09.9	4,576
							6,228

Magnetic declination along north border of quadrangle, 0.1° E.

East along highways through center of quadrangle. (By H. S. Senseney in 1918.)

Garnett, Prim. Trav. Sta. No. 79, 1917 Mac. (previously described).....	32	36	21.0	81	14	42.3	.....
Road forks.....	32	36	29.5	81	14	01.5	3,594
Road forks.....	32	36	20.2	81	13	45.3	1,680
Hampton and Jasper county line.....	32	36	14.0	81	13	22.0	2,095
Crossroads at blazed pine tree.....	32	35	48.1	81	13	05.4	2,975
Road fork.....	32	35	36.1	81	12	57.7	1,385
Road fork.....	32	35	32.0	81	12	28.0	2,567
Road fork, at eastern of three mail boxes.....	32	35	11.2	81	11	54.7	3,547
T road south, in front of Richardson's store.....	32	35	11.0	81	11	49.2	472
Road fork.....	32	35	22.6	81	11	22.1	2,692
Road fork.....	32	35	39.7	81	11	05.8	2,215
T road south at store.....	32	36	18.6	81	09	46.7	7,826
Pineland station, about 0.25 mile north of, railroad crossing.....	32	36	24.5	81	09	34.9	1,165
Road fork.....	32	36	39.5	81	09	04.5	3,010
Pineland, 2 miles east of, 15 feet south and 15 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 25, 1918".....	32	37	13.0	81	07	54.2	6,898
Road fork.....	32	37	46.5	81	06	45.5	6,781
T road south at blazed pine tree.....	32	37	33.3	81	05	38.1	5,916
Crossroads.....	32	37	11.5	81	04	07.5	8,054
Road fork south.....	32	37	00.8	81	03	27.3	3,602
Crossroads.....	32	36	48.5	81	02	30.3	5,036
Road fork, west of negro cabin.....	32	36	37.2	81	01	42.0	4,290
Lane south through gate to house.....	32	36	24.9	81	00	49.0	4,694
Crossroads, three blazed pine trees at southeast corner.....	32	36	20.4	81	00	29.7	1,720
Gillisonville, "Prim. Trav. Sta. No. 29, 1917 Mac." (previously described).....	32	36	37.0	81	00	01.2	2,954

East along highways near south border of quadrangle.

Road fork, at telephone pole No. 16345.....	32	32	21.9	81	14	44.5	.....
At telephone pole No. 16360.....	32	32	08.0	81	14	30.0	1,867
At telephone pole No. 16390.....	32	31	34.7	81	14	02.9	4,085
At telephone pole No. 16414.....	32	31	05.7	81	13	49.6	3,150
Center of road, under telephone pole.....	32	30	55.3	81	13	48.4	1,050
Center of road, opposite blazed pine tree.....	32	30	52.6	81	13	29.2	1,664
Center of road, opposite blazed oak tree.....	32	30	39.7	81	13	04.0	2,523

Magnetic declination for center of quadrangle, 0.1° E.; for south border, 0.1° E.

## PROSPERITY QUADRANGLE.

West near south border of quadrangle. (By E. L. McNair in 1919.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Forks of road.....	34 00 41.2	81 31 03.4	.....
Steeple of Mount Hebron Church.....	34 01 05.7	81 31 18.3	.....
Crossroads, at milepost 8 to Batesburg.....	34 01 34.8	81 31 54.0	3,977
T road corner.....	34 01 40.1	81 31 59.5	708
Forks of road.....	34 01 20.9	81 33 05.5	5,883
Crossroad, in front of house and near small store.....	34 01 21.6	81 33 25.7	1,695
Center of bridge over Cloud's Creek.....	34 01 18.7	81 33 48.6	1,954
Forks of road, 10 feet northwest of intersection of wheel tracks.....	34 01 07.5	81 34 36.7	4,206
Crossroads.....	34 01 15.8	81 34 39.7	877
Forks of road.....	34 00 51.5	81 35 04.7	3,237
Cupola of Fairview School.....	34 00 36.1	81 35 34.5	2,955
T road N. 30° W.....	34 00 22.1	81 35 58.5	2,464
T road southeast, in front of house.....	34 00 12.1	81 36 13.5	1,616
Batesburg, about 9 miles northwest from, about 1 mile southwest of Fairview School, 800 feet southwest of T road corners, 10 feet southeast of center of road, at edge of field; iron post stamped "Prim. Trav. Sta. No. 3, 1919 Mac.".....	34 00 07.7	81 36 21.3	791
Center of creek.....	34 00 15.5	81 44 08.2	.....
Center of bridge over Saluda River.....	34 00 32.2	81 44 29.6	2,467

Magnetic declination along south edge of quadrangle, 00° 05' W.

From post 1 to Lexington. (By R. B. Steele and Oscar Jones in 1919.)

'Prim. Trav. Sta. No. 1, 1919 Mac.' (previously described).....	34 00 16.11	81 30 53.47	.....
T road west.....	34 01 02.0	81 30 26.7	5,156

## RAVENELS QUADRANGLE (Northeast quarter is Ladson 7½' quadrangle, southeast quarter is John s Island 7½' quadrangle).

Along Atlantic Coast Line R. R. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Switch stand at turnout.....	32 45 49.1	80 14 50.7	.....
Ravenel station, 65 feet N. 80° W. from northwest corner of station platform, 70 feet north of center of main track, 70 feet north and 50 feet west of public-road crossing; iron post stamped "Prim. Trav. Sta. No. 12, 1917 Mac." Azimuth of long railroad tangent west, 82° 36' 30".....	32 45 52.6	80 14 25.8	2,151
Ravenel, station 213.....	32 45 52.6	80 14 18.4	627

## Northeast along Atlantic Coast Line R. R.

Ravenel siding, switchstand at east end of.....	32 45 57.0	80 13 37.9	3,485
Road crossing.....	32 46 00.6	80 13 05.0	2,835
Milepost marked "Chn. 22".....	32 46 09.7	80 11 41.9	7,155
Berry Hill siding, switch stand at west end of.....	32 46 19.1	80 11 00.5	3,659
Road crossing.....	32 46 29.9	80 10 20.7	3,565
Milepost marked "Chn. 20".....	32 46 40.1	80 09 43.4	2,344

## Northwest and north along Atlantic Coast Line R. R.

The Farms flag station, public-road crossing at.....	32 53 59.0	80 00 42.5	.....
Saxon flag station, road crossing at.....	32 55 06.6	80 01 18.7	7,495
Otranto station, 165 feet south of public-road crossing, 25 feet east of center of north-bound track, 1 foot from telegraph pole; iron post stamped "Prim. Trav. Sta. No. 16, 1917 Mac.".....	32 57 52.4	80 02 31.2	17,881
Azimuth of railroad tangent north from station, 185° 45'.....	32 58 29.4	80 02 27.1	3,760
Public-road crossing.....	32 59 43.2	80 02 18.2	7,495

## RAVENELS QUADRANGLE—Continued.

South along railroad near east border of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Second-class road crossing.....	32	59	49.0	80	00	01.3	.....
Second-class road crossing.....	32	58	34.5	80	00	11.2	7,550
Road crossing.....	32	58	01.8	80	00	06.6	3,025
Second-class road crossing.....	32	57	33.8	80	00	01.9	3,165

## Northeast along Atlantic Coast Line R. R.

Rantowles flag station, road crossing at.....	32	46	52.2	80	08	59.1	3,980
Rantowles River, center of draw span over.....	32	47	11.2	80	07	49.3	6,255
John's siding, switchstand at west end of.....	32	47	27.4	80	06	49.8	5,340
Johns Island station, 90 feet east of semaphore post, at mail crane, between ends of ties supporting crane, 10 feet north of center of track; iron post stamped "Prim. Trav. Sta. No. 14, 1917 Mac.".....	32	47	35.7	80	06	25.6	2,223
Road crossing.....	32	48	02.6	80	05	53.6	3,855
Farm-road crossing.....	32	48	54.5	80	05	00.2	6,945
Road crossing.....	32	50	32.6	80	03	19.4	13,134
Ashley River, center of swing span over.....	32	50	50.0	80	03	01.6	2,319
Road crossing.....	32	51	15.6	80	01	52.5	6,435
Road crossing.....	32	51	23.9	80	01	23.9	2,580

## Along Seaboard Air Line Ry. near south border of quadrangle. (By E. L. McNair in 1917.)

Private-road crossing.....	32	45	06.6	80	08	50.1	.....
Second Stono River bridge, center of draw span.....	32	45	05.6	80	08	10.6	3,370
Public-road crossing.....	32	45	24.9	80	07	04.7	5,962
Johns Island siding on Seaboard Air Line Ry., near center of 15 feet north and 10 feet west of crossing of Johns Island and Rockville road, 2 feet south of crossing signpost; iron post stamped "Prim. Trav. Sta. No. 49, 1917 Mac.".....	32	45	40.8	80	06	24.1	3,825
Johns Island siding on Seaboard Air Line Ry.; switch stand at north end.....	32	45	52.6	80	05	52.9	2,919
Center of bridge over tidewater creek.....	32	46	06.6	80	05	16.5	3,415
Public-road crossing.....	32	46	17.3	80	04	48.8	2,605
Stono River bridge, center of draw span.....	32	46	26.6	80	04	24.7	2,260
Center of creek crossing.....	32	46	53.7	80	03	14.4	6,595
Road crossing.....	32	47	02.1	80	02	51.5	2,132
Private-road crossing.....	32	47	09.6	80	02	07.2	3,859
Crossing of Atlantic Coast Line R. R. branch line and Seaboard Air Line Ry.....	32	47	12.7	80	01	48.7	1,610
Main public-road crossing.....	32	47	17.6	80	01	19.0	2,590
Road forks, south of Seaboard Air Line Ry.....	32	47	06.4	80	00	14.7	5,600

Magnetic declination along south border of quadrangle, 1.0° west.

## From Johns Island siding on Seaboard Air Line Ry. north along highway to Johns Island station on Atlantic Coast Line R. R.

T road south, about 200 feet west of T road north at store.....	32	46	41.8	80	06	24.4	.....
Johns Island, draw span of highway bridge to island.....	32	47	08.2	80	06	24.8	2,673
Johns Island station on Atlantic Coast Line R. R.; Prim. Trav. Sta. No. 14 (previously described).....	32	47	35.7	80	06	25.6	2,788

## Northwest along highways near west border of quadrangle. (By E. L. McNair in 1917.)

Ravenel, Prim. Trav. Sta. No. 12 (previously described).....	32	45	52.6	80	14	25.8	.....
Forks of road.....	32	46	24.6	80	14	43.2	3,566

## North along highways near west border of quadrangle.

Forks of road.....	32	55	13.6	80	14	04.8	.....
Angle in road, 2 wire nails in root of blazed 20-inch hickory tree at northwest corner of road.....	32	55	36.3	80	13	42.0	3,003
Third-class road south.....	32	56	11.1	80	12	58.0	5,147
Bacon's bridge crossroads.....	32	56	53.6	80	12	19.6	5,396

## RAVENELS QUADRANGLE—Continued.

South along highways near center of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Crossing of tramroad bed, angle of 15°.....	32	56	21.7	80	11	01.0	7,440
Crossroads.....	32	56	02.8	80	10	37.6	2,760
Crossroads.....	32	55	21.7	80	09	46.9	5,991
Tramroad crossing, wooden rails.....	32	54	59.4	80	09	23.6	3,009
Bridge over creek.....	32	54	33.9	80	08	57.3	3,419
Center of road, opposite milestone C7, S10.....	32	54	09.3	80	08	40.1	2,880
Summerville, road to Charleston via Drayton, 1,550 feet south-east of milestone C7, S10, on southwest side of road, opposite gateway in brick wall, at entrance to Middleton place; iron post stamped "Prim. Trav. Sta. No. 48, 1917 Mac".....	32	53	58.4	80	08	27.3	1,556
Angle of 27° in road, center line both ways.....	32	53	24.2	80	07	41.4	5,221
Crossing of new tramroad.....	32	53	14.6	80	06	59.3	3,714
T road south 27° west.....	32	53	09.4	80	06	47.7	1,125
Forks of road.....	32	52	46.4	80	06	59.9	2,548
Forks of road.....	32	52	05.5	80	07	22.2	4,548
Crossing of old abandoned tramroad.....	32	51	25.6	80	07	38.6	4,261
Crossing of railroad from mill to phosphate mine.....	32	50	16.0	80	07	32.9	7,053
Small bridge, 150 feet north of angle in road.....	32	49	40.0	80	07	38.6	3,676
T road west.....	32	49	29.6	80	07	35.2	1,086
Forks of road, near church, 60 feet north of separation of wagon tracks.....	32	48	49.4	80	07	18.0	4,321
T road N. 23° W.....	32	48	18.6	80	07	03.7	3,344
Crossroads, crossing of Savannah and Charleston road.....	32	48	07.1	80	06	32.7	2,889
Johns Island, iron bench-mark post No. 14 (previously described). ..	32	47	35.7	80	06	25.6	3,232

Magnetic declination in center of quadrangle, 0.8° W.

South along highways. (By E. L. McNair in 1917.)

Iron post stamped "Prim. Trav. Sta. No. 49" (described above).....	32	45	40.8	80	06	24.1	.....
T road west.....	32	45	18.3	80	06	23.4	2,270

Northwest along Dorchester Road. (By E. L. McNair in 1917.)

Intersection of Atlantic Coast Line R. R. and Dorchester Road.....	32	51	15.6	80	01	52.5	.....
Forks of road.....	32	51	16.7	80	02	29.3	3,130
Creek bridge.....	32	52	09.8	80	03	17.3	6,755
Railroad crossing.....	32	52	33.2	80	03	38.2	2,951
Railroad crossing.....	32	52	48.1	80	03	52.0	1,915
T road west.....	32	53	12.1	80	04	03.9	2,684
Berkeley and Charleston county line, center of road.....	32	53	23.4	80	04	11.3	1,189
Second-class crossroad.....	32	54	02.7	80	01	38.2	4,593
Creek bridge.....	32	54	08.6	80	04	48.6	1,068
Crossroads, road southwest closed by fence.....	32	54	22.7	80	05	33.3	4,060
Crossroads.....	32	54	49.8	80	06	27.9	5,403
Small creek.....	32	55	09.7	80	07	00.6	3,435
T road southwest.....	32	55	31.1	80	07	34.6	3,614
Opposite gate between two live-oak trees.....	32	56	08.9	80	08	35.0	6,408
Center of bridge over Eagle Creek, a navigable stream below bridge.....	32	57	01.6	80	09	32.6	7,251
Forks of road, 600 feet east of bridge over Dorchester Creek.....	32	57	04.7	80	09	52.8	1,749
Summerville, 6.7 miles southwest of, on Dorchester road, at angle in road where it turns from S. 78° W. to N. 38° 30' W., in line with road northwest, about 20 feet south of center of road, 10 feet north of gate entering field, near telephone pole 900, an old burying ground in woods about 50 feet west; iron post stamped "Prim. Trav. Sta. No. 54, 1917 Mac.".....	32	56	57.2	80	10	12.7	1,854
Forks of road.....	32	57	32.9	80	11	01.2	5,481
Crossroads southwest to Bacon's bridge.....	32	58	03.8	80	12	04.3	6,225
Bacon's bridge over Ashley River, center of stream.....	32	57	30.5	80	12	04.5	3,356
Bacon's bridge crossroads (previously described).....	32	56	53.6	80	12	19.7	3,935

Magnetic declination for quadrangle, 0.8° W.

## RAVENELS QUADRANGLE—Continued.

## Northwest along highways.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Prim. Trav. Sta. No. 14, Johns Island (previously described)....	32 47 35.7	80 06 25.6	.....
Switchstand at spur turnout from main line, Atlantic Coast Line	32 47 20.8	80 07 14.0	4,397
Crossing of Savannah and Charleston public road and spur track			
of Atlantic Coast Line R. R. to phosphate mills.....	32 47 55.8	80 07 44.8	4,402
Center of bridge over Rantowles Creek.....	32 47 44.8	80 08 05.3	2,067
Forks of road.....	32 47 46.4	80 08 33.9	2,449
T road west.....	32 48 22.1	80 09 12.5	4,884
Forks of road.....	32 49 05.6	80 09 30.7	4,660
Forks of road.....	32 49 20.8	80 10 40.3	6,130
Forks of road at road through gate.....	32 49 33.5	80 11 38.8	5,155
T road south.....	32 49 42.6	80 12 21.4	3,745
Center of road, opposite church on north side.....	32 50 01.0	80 13 45.8	7,440
Deleamar Crossroads, 4 miles east of, west of church, 105 feet S.			
60° E. of crossing of log tramroad, 15 feet south of center			
of county-line road; iron post stamped "Prim. Trav. Sta. No. 73,	32 50 10.1	80 14 29.9	3,875
1917 Mac.".....			

## Northwest along highways to Seaboard Air Line Ry.

Road northeast to boat landing, at telephone line.....	32 45 15.3	80 02 53.8	.....
Angle of 17° in road, on center line both ways.....	32 45 49.8	80 03 42.5	5,430
T road east.....	32 46 02.6	80 04 15.2	3,075
Road crossing on Seaboard Air Line Ry.....	32 46 17.3	80 04 48.8	3,224

Magnetic declination for northwest part of quadrangle, 0.8° W.

## East along highways near north border of quadrangle.

Angle of 12° in road, crossing of long tangents.....	32 58 14.0	80 12 39.5	.....
Forks in road.....	32 58 12.3	80 12 33.7	520
Crossroads.....	32 58 03.8	80 12 04.3	2,645
Forks of road.....	32 59 30.3	80 11 21.2	9,480
Forks of road.....	32 59 47.1	80 10 54.2	2,864
Ladson station, public-road crossing at.....	32 59 07.7	80 06 36.5	.....
Forks of road.....	32 59 16.7	80 05 53.7	3,760
Center of bridge with railing over small creek.....	32 59 33.4	80 05 08.5	4,195
Forks of road.....	32 59 49.4	80 03 52.5	6,673

## Near north border of quadrangle.

Forks of road.....	32 58 24.2	80 14 57.6	.....
Crossroad, enters field on south.....	32 58 23.2	80 14 07.3	4,283

Magnetic declination for quadrangle, 0.6° W.

## RHEMS QUADRANGLE.

Northwest along highways through south part of quadrangle to primary traverse station No. 5.  
(By Oscar Jones in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Road fork.....	33 30 10.6	79 22 02.5	1,740
Center of bridge, creek crossing.....	33 30 23.6	79 22 18.5	1,888
Center of road in front of store.....	33 31 06.5	79 22 45.8	4,910
Browns Ferry on Black River, 0.25 mile south of; iron post			
stamped "Prim. Trav. Sta. No. 5".....	33 31 59.9	79 23 21.9	6,208
Center of small bridge.....	33 31 22.3	79 23 50.0	4,479
Center of small stream.....	33 30 54.6	79 24 07.8	3,176

Magnetic declination for line, 1.8° W.

## RHEMS QUADRANGLE—Continued.

Northwest along highways in northeast part of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Prim. Trav. Sta. No. 15, in northwest corner of crossroads.....	33	41	28.1	79	15	03.7	.....
Center of bridge.....	33	41	21.0	79	15	25.5	1,975
Road fork.....	33	41	06.8	79	16	18.3	4,694
Center of bridge, western one of three.....	33	41	17.0	79	17	25.8	5,785
T road west.....	33	41	21.8	79	17	36.3	1,016
Road fork.....	33	42	11.2	79	18	15.3	5,979
Crossroads.....	33	42	40.4	79	18	28.4	3,160
Center of bridge, eastern one of three, at crossroads, 1,000 feet south of Smiths Mills post office.....	33	43	18.7	79	18	50.8	4,308
Center of bridge.....	33	43	38.3	79	18	52.2	1,986
Road fork, about 300 feet north of store.....	33	43	46.8	79	18	47.1	960
Road fork at church.....	33	44	02.6	79	18	38.6	1,750
Road fork.....	33	44	56.6	79	18	51.5	5,568

Magnetic declination in northeast part of quadrangle, 2° 04' W.

Southwest along highways to southwest corner of quadrangle.

Station 1069, tie point, near center of bridge, the eastern one of three at crossroads, 1,000 feet south of Smiths Mills post office.....	33	43	19.6	79	18	51.4	.....
Road fork at house.....	33	43	23.8	79	19	15.3	2,058
Road fork.....	33	43	27.6	79	20	03.3	4,077
Crossroads.....	33	43	28.0	79	20	30.1	2,261
Gates across road.....	33	43	29.5	79	21	51.6	6,892
Williamsburg and Georgetown county-line road, crossroads on.....	33	43	35.0	79	22	20.7	2,515
Road fork.....	33	43	04.5	79	23	00.7	4,578
Crossroads at gate.....	33	42	48.7	79	23	23.3	2,489
Road fork.....	33	42	18.8	79	23	49.0	3,724
Center of road, at angle in road.....	33	41	17.4	79	24	35.3	7,327
Road fork.....	33	40	24.4	79	24	56.7	5,661
Center of road, opposite center of church.....	33	40	11.2	79	25	02.0	1,401
Oak post office, T road east.....	33	39	32.7	79	25	07.5	3,923
Road fork, at road through gate at angle in road.....	33	38	55.5	79	25	09.6	3,769
Center of bridge.....	33	38	33.5	79	25	19.4	2,369
Union Church, in southeast corner of crossroads at; iron post stamped "Prim. Trav. Sta. No. 33 J, 1918".....	33	38	15.7	79	25	27.2	1,915
Black Mingo Creek, center of drawbridge over.....	33	37	16.9	79	25	59.4	6,537
Center of road, opposite house and gate.....	33	36	26.8	79	26	17.6	5,299
Rhems store, road fork 0.25 mile north of.....	33	35	44.0	79	26	32.3	4,500
Road fork.....	33	34	55.8	79	26	13.1	5,130
Road fork, 280 feet south of bridge.....	33	34	34.3	79	26	00.8	2,412
Center of culvert, 200 feet west of school.....	33	33	55.5	79	26	43.4	5,322
Center of road, opposite tobacco barn.....	33	33	25.5	79	27	26.4	4,740
Center of culvert.....	33	32	56.5	79	28	03.8	4,309
Road fork.....	33	32	09.2	79	29	00.7	6,788
Center of bridge.....	33	31	43.5	79	29	13.4	2,813
Center of bridge.....	33	31	21.2	79	29	29.5	2,632
Center of bridge over creek.....	33	30	54.7	79	29	54.7	3,424

Magnetic declination for southwest part of quadrangle, 2° 03' W.

South along Seaboard Air Line Ry. near west border of quadrangle. (By Oscar Jones in 1918.)

Center of track, opposite switch stand.....	33	44	24.9	79	27	13.6	.....
Road crossing.....	33	43	46.5	79	27	38.4	4,420
Road crossing.....	33	43	15.2	79	27	58.7	3,600
Road crossing.....	33	42	42.3	79	28	20.0	3,780
Henry, opposite window of depot, center of track.....	33	41	19.0	79	29	38.7	10,740
Henry, 1,700 feet south of depot, crossing of Seaboard Air Line Ry.....	33	41	06.1	79	29	52.4	1,747

Southeast along public road through center to south border of quadrangle.

Oak post office, T road east.....	33	39	32.7	79	25	07.5	.....
Center of bridge.....	33	39	21.2	79	24	21.9	4,026
Center of bridge.....	33	39	07.5	79	23	32.9	4,373
Road fork.....	33	38	46.3	79	22	21.5	6,400
Crossroads.....	33	38	06.2	79	21	32.4	5,811
Road fork.....	33	37	35.4	79	21	05.8	3,834
Center of bridge.....	33	37	12.3	79	20	47.2	2,818
T road northwest.....	33	36	46.8	79	20	19.4	3,497

## RHEMS QUADRANGLE—Continued.

Southeast along public road through center to south border of quadrangle—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Dunvegan post office, road fork south, 70 feet southwest in T road north.....	33 37 03.0	79 19 50.6	2,930
Center of bridge.....	33 36 01.9	79 19 54.4	5,883
Road fork.....	33 35 17.9	79 19 47.4	4,787
Road fork.....	33 34 56.7	79 19 26.3	2,789
Center of road, opposite pine tree on south side of road, tree blazed and marked "U. S.".....	33 34 23.8	79 18 10.7	7,218
Crossroads.....	33 34 18.1	79 17 39.5	2,700
Plantersville, 3.5 miles west of, 180 feet west of school, on south side of road, 60 feet west of T road south; iron post stamped "Prim. Trav. Sta. No. 44".....	33 33 53.1	79 16 21.8	7,044
Center of bridge.....	33 33 35.4	79 15 43.1	3,735

Magnetic declination for center of quadrangle, 1° 52' W.

## RIDGEVILLE QUADRANGLE.

South along highway near southwest corner of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Cottageville, 10 miles north of, 45 feet north of Maple Cane Church, 25 feet south of road, 40 feet southeast of crossroads; iron post stamped "Prim. Trav. Sta. No. 40, 1917 Mac.".....	33 03 06.2	80 29 29.8	.....
T road S. 37° W.....	33 02 31.5	80 28 52.6	4,722
Forks of road.....	33 01 48.3	80 29 14.6	4,744
Road fork, 250 feet south of school building.....	33 01 15.5	80 29 05.7	3,406
T road north.....	33 00 48.4	80 29 13.9	2,827
Northwest corner of church building.....	33 00 00.9	80 29 16.9	4,808

Northeast and southeast along highways near south border of quadrangle. (By E. L. McNair in 1917.)

Dim road, 50 feet south of road forks.....	33 00 27.4	80 25 20.5	.....
Forks of road.....	33 01 26.3	80 24 28.1	7,440
Givhans Bridge over Edisto River, center of small A truss span. Givhans Bridge, about 0.4 mile southeast of, 5 feet south and 30 feet east of T roads, road northeast follows Edisto River and crosses Four Hole Swamp, 2.7 miles northwest from Givhans village; iron post stamped "Prim. Trav. Sta. No. 55, 1917 Mac.".....	33 01 45.9	80 23 30.6	5,290
Lane south.....	33 01 36.2	80 23 08.3	2,136
T road corners.....	33 01 21.6	80 22 26.0	3,892
Road northwest to Ridgeville.....	33 01 01.5	80 20 55.3	7,993
Forks of road.....	33 00 42.1	80 20 16.9	3,815
	33 00 30.4	80 19 53.0	2,354

## Northwest along Southern Ry.

Jedburg spur, public-road crossing.....	33 03 49.7	80 15 21.6	.....
Center of bridge, 300 feet southeast of milepost 29, headwaters of Ashley River.....	33 04 34.2	80 16 44.9	8,395
Road crossing.....	33 05 07.0	80 17 46.4	6,190
Second-class road crossing.....	33 05 22.4	80 18 15.2	2,900
Ridgeville station, directly opposite, 30 feet north of center of track, 60 feet west of street crossing on Southern Ry.; iron post stamped "Prim. Trav. Sta. No. 61, 1917 Mac.".....	33 05 44.0	80 18 54.8	4,021
Milepost 32.....	33 06 00.5	80 19 26.3	3,150
Road crossing.....	33 06 20.2	80 20 03.1	3,710
Public-road crossing.....	33 07 43.5	80 22 38.3	15,660
Dorchester, town limit, signpost opposite.....	33 08 04.5	80 23 17.5	3,950
Dorchester station, directly opposite, about 40 feet southerly from center of track, 20 feet north from center of road; iron post stamped "Prim. Trav. Sta. No. 62, 1917 Mac." Azimuth to crossing signpost, 121° 02'.....	33 08 18.2	80 23 44.0	2,641
Public-road crossing.....	33 08 25.7	80 23 59.1	1,491
Milepost 39.....	33 08 51.5	80 25 45.5	9,415
Pregnall station, directly opposite, 50 feet south of center of track, 40 feet north of public road, 7 feet west of pine tree; iron post stamped "Prim. Trav. Sta. No. 63, 1917 Mac." Azimuth to milepost 41, distant 840 feet, 284° 33' 40".....	33 09 22.2	80 27 54.4	11,382



## RIDGEVILLE QUADRANGLE—Continued.

## Southwest and southeast along highways.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road fork, just south of church.....	33	09	17.1	80	28	09.1	.....
Center of bridge.....	33	08	39.2	80	28	18.0	3,899
Forks of road, opposite fence opening on west side of road.....	33	08	01.8	80	28	27.9	3,877
Second-class crossroad east.....	33	07	22.1	80	28	39.2	4,120
Angle of 14° in road, on center lines.....	33	07	00.5	80	28	45.3	2,240
Small bridge, at bend in road.....	33	06	38.4	80	28	58.5	2,502
Angle of 19° in road, on center lines.....	33	05	57.8	80	28	47.3	4,220
Crossroads.....	33	05	40.5	80	28	49.2	1,750
Pregnall, 5 miles south of, on south side of old Charleston and Augusta Road, on east side of Edisto River, 35 feet west of road going south and 70 feet west of road going northwest to Pregnall, about 20 feet south of center of road; iron post stamped "Prim. Trav. Sta. No. 64, 1917 Mac." Azimuth to south edge of chimney on house of Charles Runple, distant 660 feet, 292° 58' 10".....	33	05	17.8	80	28	55.5	2,354
Crossroads.....	33	04	53.7	80	27	18.5	8,604
T road northeast.....	33	04	29.9	80	26	42.9	3,869
Angle of 18° in road, opposite telephone post 1672.....	33	03	52.5	80	26	02.4	5,119
Forks of road.....	33	03	31.6	80	25	13.2	4,691
Bridge over Four Hole Swamp, at center of stream, 100 feet from east end of bridge.....	33	03	21.6	80	24	18.0	4,798
Forks of roads, one S. 30° E. to Givhans Bridge, one N. 63° E. to Ridgeville.....	33	03	22.8	80	23	53.7	2,080
Forks of road.....	33	02	44.6	80	23	05.6	5,635
Angle of 28.5° in road, on center lines.....	33	02	13.4	80	23	06.3	3,147

## Southwest along highways.

T road south.....	33	06	59.8	80	15	19.6	.....
Forks of road.....	33	06	49.2	80	16	04.3	3,944
T road corners, 20 feet west of forks of road.....	33	06	13.9	80	16	05.8	3,571
Forks of road, near northwest corner of Cypress Swamp camp-meeting grounds.....	33	06	14.9	80	16	30.5	2,105
Crossroads.....	33	06	11.6	80	17	08.8	3,280
Forks of road.....	33	05	56.2	80	18	40.4	7,939

## Along highways in northwest corner of quadrangle.

Pregnall siding, switch stand at west end of.....	33	09	29.7	80	28	23.1	.....
Forks of road.....	33	09	53.1	80	29	03.5	4,176
Forks of road.....	33	10	04.1	80	29	19.5	1,753
Crossroads.....	33	10	27.5	80	28	47.4	3,608
Forks of road.....	33	11	05.3	80	28	13.9	4,770
Forks of road.....	33	11	59.3	80	27	56.5	5,650
Forks of road.....	33	12	36.2	80	27	10.1	5,434
Harleyville station, south of, about 265 feet west of brick public-school building and opposite main entrance thereto, 40 feet east of center of Atlantic Coast Line R. R., 12 feet east of center of road; iron post stamped "Prim. Trav. Sta. No. 66, 1917 Mac." Azimuth to steeple, about 900 feet distant, 227° 30' 05"; to weather vane on school, 283° 28' 35".....	33	12	41.0	80	26	56.3	1,265
Public-road crossing, just south of Harleyville station.....	33	12	51.9	80	26	52.9	1,139
Forks of road, 60 feet south of another fork.....	33	12	53.3	80	26	16.1	3,194
Crossroads, Sevenmile and Bell settlement roads.....	33	13	24.3	80	25	31.8	4,593
Crossroads, Sevenmile and Bethel roads.....	33	12	58.4	80	25	04.8	3,484
Crossroads.....	33	12	58.9	80	24	28.2	3,112
T road S. 60° E., in front of public school, a crossroad is 35 feet N. 34° E.....	33	13	11.2	80	23	08.8	6,859
Forks of road, at fence line.....	33	12	41.7	80	22	30.3	4,422
Bethel Church, 6.7 miles east of Harleyville, 140 feet S. 63° 17' E. from southwest corner of church building, 50 feet west of center of road; iron post stamped "Prim. Trav. Sta. No. 67, 1917 Mac.".....	33	11	56.3	80	21	26.3	7,119
Forks of road.....	33	11	36.2	80	21	09.1	2,493
Forks of road, about 90 feet north of another fork.....	33	10	41.0	80	20	51.2	5,788
Forks of road, in line with tangents.....	33	09	39.2	80	21	02.1	6,322
Bridge over running stream.....	33	09	06.5	80	21	26.2	3,885
Orangeburg road, crossing.....	33	08	49.8	80	21	47.5	2,476

Magnetic declination for south border of quadrangle, 0.3° W.; for northwest border, 0.5° W.; for southwest border, 0.8° W.; for northwest corner, 0.6° W.

## RIDGEVILLE QUADRANGLE—Continued.

North along highways. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
<p>NOTE.—This line has a closure error of +1.7" in latitude and +2.8" in longitude, probably due to an error of a tape length at an azimuth of about 144° 40' or 324° 40'. Triplicate computation has been made. (Not adjusted.)</p>			
Ridgeville, iron post 61 (previously described).....	33 05 44.0	80 18 54.8	Feet. .....
Angle of 22.5° in road.....	33 06 41.0	80 18 31.0	6,107
Forks of road, junction with Orangeburg Road.....	33 06 59.8	80 18 19.3	2,141
Forks of road, road north is Gaillard Road.....	33 07 10.5	80 18 35.0	1,716
Second-class road northwesterly.....	33 08 05.7	80 18 42.4	5,608
Forks of road, 100 feet north of corner of church.....	33 08 29.7	80 18 28.1	2,715
Small bridge.....	33 09 06.4	80 18 25.4	3,721
Forks of road.....	33 09 51.8	80 18 06.0	4,881
Forks of road, about 15 feet from bridge.....	33 10 21.0	80 17 41.1	3,638
Forks of road.....	33 11 23.6	80 17 30.5	6,391
Forks of road.....	33 12 25.7	80 18 24.8	7,789
Small bridge over running stream.....	33 12 31.7	80 18 31.6	845
Intersection of two roads, tangents about 0.25 mile long.....	33 12 53.6	80 18 39.2	2,244
Second-class crossroad.....	33 13 39.4	80 19 24.6	6,021
T road southeast at Spring Hill Church.....	33 13 54.0	80 19 30.6	1,560
Ridgeville, 11.75 miles north of, 0.9 mile north of Spring Hill Church, at T road running east to State Road, 10 feet west of T road corner; iron post stamped "Prim. Trav. Sta. No. 65, 1917 Mac." Azimuth to nail in pine tree 6 feet above ground, 1,000 feet distant, 228° 41' 30".....	33 14 40.0	80 19 41.6	4,739
T road corners, junction with State Road (Eutawville quadrangle).....	33 15 09.4	80 19 08.0	4,125
Forks of road.....	33 13 57.7	80 17 50.3	9,806
Forks of road.....	33 13 24.1	80 17 19.7	4,276
T road southeast.....	33 13 11.7	80 16 55.7	2,394
Gateway across road.....	33 12 46.2	80 16 11.9	4,529
Longridge, 0.7 mile northwest of, at forks of road, one fork leads east, 15 feet northwest of gate, 15 feet southwest from center of road, 2.5 feet from wire-fence line; iron post stamped "Prim. Trav. Sta. No. 59 Mac. 1917." Azimuth to blazed pine tree, 560 feet distant, 233° 57' 40".....	33 12 31.5	80 15 28.7	3,958
Adjusted position.....	33 12 29.8	80 15 25.9	3,958
Second-class road crossing.....	33 09 42.6	80 29 16.5	.....
Pregnall, Prim. Trav. Sta. No. 63, 1917 Mac. (previously described).....	33 09 22.2	80 27 54.4	7,279

Magnetic declination for north part of quadrangle, 0.8° W.

Southeast along highways in northwest corner of quadrangle.

Forks of road, road southwest to St. George.....	33 14 08.5	80 29 41.8	.....
Forks of road.....	33 13 41.8	80 28 53.3	4,929
Harleyville, iron post No. 66, 1917 (previously described).....	33 12 41.0	80 26 56.3	11,684

South along Atlantic Coast Line R. R. to Harleyville.

Road crossing.....	33 14 32.6	80 26 41.2	.....
Road crossing.....	33 14 13.5	80 26 37.8	1,948
Road crossing.....	33 13 42.5	80 26 38.1	3,129
Harleyville, Prim. Trav. Sta. No. 66 Mac. 1917 (previously described).....	33 12 41.00	80 26 56.29	6,402

No mean magnetic declination observed.

## RIMINI QUADRANGLE.

East along highways on north border of quadrangle. (By Oscar Jones in 1918.)

Stations.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Fect.
Crossroads.....	33	43	49.6	80	29	54.9	.....
Road forks.....	33	44	20.2	80	28	57.5	4,745
Rublin road crossing, west side of, center of track of Atlantic Coast Line R. R., 600 feet south of semaphore; nail in tree.....	33	44	19.0	80	27	48.8	5,801
Road forks.....	33	44	17.5	80	26	58.4	4,262
Crossroads.....	33	44	21.1	80	25	26.9	7,734
T road south, at church.....	33	44	10.6	80	24	31.2	4,820
Road forks.....	33	44	47.7	80	23	47.6	5,255
Center of bridge.....	33	44	44.7	80	23	12.1	3,018
Road forks, at house.....	33	44	41.2	80	22	16.7	4,690
Paxville, 50 feet south of depot, 25 feet east of track, 20 feet north of public-road crossing, in line of telephone poles; iron post stamped "Prim. Trav. Sta. No. 56".....	33	44	19.0	80	21	26.0	4,838
Railroad crossing.....	33	44	42.7	80	21	26.3	2,403
Crossroads.....	33	44	50.8	80	20	03.7	7,023
T road north.....	33	44	42.8	80	18	17.5	.....
Road forks, 40 feet north of five mail boxes.....	33	44	13.2	80	17	27.7	5,162
Road forks.....	33	44	18.3	80	16	54.3	2,866
Center of road, opposite church.....	33	44	29.1	80	16	09.4	3,953
Road forks.....	33	44	39.7	80	15	33.0	3,253
Road forks.....	33	44	15.7	80	15	01.9	3,577

Magnetic declination near north border of quadrangle, 00° 25' W.

Southwest along Atlantic Coast Line R. R. across northwest corner of quadrangle. (By Oscar Jones in 1919.)

Pinewood (previously described).....	33	44	19.02	80	27	48.86	.....
North end of trestle.....	33	43	51.3	80	28	05.4	3,130
Road crossing.....	33	43	15.2	80	28	26.8	4,070
Road crossing.....	33	42	47.5	80	28	43.3	3,130
Road crossing.....	33	42	30.2	80	28	53.6	1,950
South end of tangent, angle iron with X in center of track, 190 feet north of road crossing.....	33	41	37.4	80	29	25.0	5,955
North end of tangent, angle iron with X in center of track.....	33	41	32.5	80	29	27.3	535
Road crossing.....	33	40	37.2	80	29	46.0	5,800
South end of tangent, angle iron with X in center of track.....	33	40	23.2	80	29	50.7	1,479

No magnetic declination observed.

From point near St. Paul east to primary traverse station No. 60, 1919.

St. Paul, 0.5 mile west of, Prim. Trav. Sta. No. 62 (described later).....	33	34	18.34	80	24	59.59	.....
Crossroads.....	33	33	32.0	80	25	21.7	5,033
Road fork to Wrights Landing.....	33	32	54.8	80	25	35.0	3,924
Road fork.....	33	32	22.0	80	25	26.3	3,392
T road north.....	33	32	01.3	80	25	38.9	2,352
Bridge over ditch.....	33	30	50.1	80	24	37.2	8,887
T road west.....	33	30	35.3	80	24	18.3	2,197
Road fork.....	33	30	18.5	80	18	59.8	.....
T road north, at store.....	33	30	38.5	80	18	44.3	2,408
Taw Caw Creek, center of bridge over.....	33	31	13.3	80	18	28.2	3,771
T road south.....	33	31	23.0	80	17	56.3	2,871
T road north, at store.....	33	31	37.2	80	17	02.0	4,814
St. James white church, center of road opposite.....	33	31	47.4	80	16	14.8	4,130
Potato Creek, center of bridge over.....	33	31	50.2	80	15	56.9	1,540
Davis, 6 miles south of, Prim. Trav. Sta. No. 60 J, 1919 (described later).....	33	31	57.10	80	15	13.92	3,707

Magnetic declination for center of quadrangle, 1° 13' W.; for east border, 57' W.; for south border, 1° 03' W.

## RIMINI QUADRANGLE—Continued.

From Paxville south along Northwestern R. R. of South Carolina through center of quadrangle to post 62. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Prim. Trav. Sta. No. 56 (previously described).....	33	44	18.94	80	21	25.98	.....
Silver, 400 feet south of depot, road crossing.....	33	40	33.6	80	21	30.8	22,779
Road crossing.....	33	39	55.6	80	21	45.3	4,028
Road crossing.....	33	38	59.8	80	22	06.3	5,905
Road crossing.....	33	37	26.8	80	22	13.6	9,419
Road crossing.....	33	36	30.7	80	22	17.9	5,670
Road crossing.....	33	35	59.9	80	22	20.3	3,120
Road crossing.....	33	35	45.3	80	22	21.4	1,470
Road crossing.....	33	35	17.9	80	22	47.4	3,527
St. Paul, 200 feet north of depot, road crossing.....	33	34	42.5	80	23	32.8	5,247
Center of bridge.....	33	34	25.4	80	21	08.4	3,467
St. Paul, 0.5 mile west of, on Rimini and Wrights Bluff road, in triangular plot, in line with T road east; iron post stamped "Prim. Trav. Sta. No. 62, 1919 Jones".....	33	34	18.34	80	24	59.59	4,381

From Manning south along public roads to post No. 60 at east border of quadrangle.

Road fork.....	33	36	57.7	80	15	11.0	.....
Road fork.....	33	36	24.6	80	15	31.3	3,761
Davis, 100 feet east of station, crossing of Northwestern R. R. of South Carolina and public road, center of track.....	33	36	08.6	80	15	50.7	2,304
Crossroads.....	33	35	30.6	80	15	22.7	4,513
Center of bridge.....	33	34	56.5	80	15	11.9	3,560
Center of small bridge.....	33	34	10.9	80	15	20.6	4,671
T road east at gin.....	33	33	13.1	80	15	30.9	5,900
T road west.....	33	32	46.8	80	15	26.7	2,681
Davis, 5 miles south of, at T road north on Charleston and Camden road, in triangular grass plot, 20 feet southeast of mail box; iron post stamped "Prim. Trav. Sta. No. 60, 1919 Jones".....	33	31	57.10	80	15	13.92	5,138

From Rimini south along public road and east toward Greelyville.

Spring Grove Creek, center of bridge over.....	33	39	10.8	80	29	42.9	.....
Road fork.....	33	38	51.7	80	29	37.8	1,975
Crossroads.....	33	38	21.2	80	29	19.0	3,468
T road northeast.....	33	37	34.7	80	28	44.1	5,554
T road southwest.....	33	36	52.1	80	28	05.4	5,402
Crossroads.....	33	36	36.8	80	27	53.6	1,840
Crossroads at store.....	33	36	13.8	80	27	20.5	3,639
Road fork at gin.....	33	35	46.9	80	26	26.9	5,286
Road fork.....	33	35	27.6	80	25	56.2	3,251
T road northeast at house.....	33	35	05.9	80	25	22.4	3,600
Jacks Creek, south end of bridge over.....	33	34	43.8	80	24	56.4	3,136

From Pinewood north along Atlantic Coast Line R. R. (By Oscar Jones in 1918.)

Pinewood depot (previously described).....	33	44	19.02	80	27	48.86	.....
Road crossing.....	33	44	57.7	80	27	25.8	4,370

## ELLENTON QUADRANGLE.

Southeast along Southern Ry. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Ellenton station, 120 feet north of Main Street crossing, 40 feet northeast of center of track, 135 feet south of Bank of Western Carolina; iron post stamped "Prim. Trav. Sta. No. 98, 1918 Mac." Azimuth to Baptist Church spire, 117° 06' 00"......	33	13	18.3	81	44	12.8	.....
Road crossing.....	33	13	01.6	81	43	58.7	2,070
Road crossing, second class.....	33	12	17.1	81	43	19.7	5,590
Pile bridge over creek.....	33	11	53.5	81	42	59.0	2,960
Second-class road crossing.....	33	11	23.4	81	42	32.5	3,790

## ELLENTON QUADRANGLE—Continued.

## Southeast along Southern Ry.—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Second-class road crossing.....	33	10	21.2	81	41	37.9	7,810
Public-road crossing.....	33	09	44.1	81	41	05.2	4,665
Milepost 28.....	33	09	14.2	81	40	06.3	5,858
Robbins station, switch stand at north end of.....	33	09	05.8	81	39	48.2	1,750
Robbins station, 440 feet southeast of, 55 feet from center of Charleston & Western Carolina Ry. track, 60 feet northwest of tangent going east on Atlantic Coast Line R. R.; iron post stamped "Prim. Trav. Sta. No. 99, 1918 Mac".....	33	08	52.1	81	39	17.0	2,999
Robbins, U. S. Coast and Geodetic Survey triangulation station, intersection of railroad tangents, at first curvesouth of Robbins railroad station, about 20 feet from track, in low, swampy place; pine stub and nail.....	33	08	34.99	81	38	41.43	3,479
Road crossing.....	33	08	07.8	81	38	11.7	3,740
Road crossing at spur.....	33	07	46.6	81	37	48.6	2,905
Center of trestle over creek.....	33	07	32.1	81	37	32.9	1,985
Road crossing.....	33	07	05.2	81	37	03.6	3,695
Hattiesville, U. S. Coast and Geodetic Survey traverse station, about 200 meters south of Hattiesville railroad station and 50 feet from track in a low, wet place; a 2-foot drain tile set in cement with a nail in center of upper end.....	33	06	40.43	81	36	36.73	3,388

## Southwest along Atlantic Coast Line Ry.

Crossing of lumber company's railroad under Atlantic Coast Line R. R.....	33	13	20.8	81	30	34.4	-----
Kendell, public-road crossing, post-office name Donora.....	33	13	15.3	81	31	00.5	2,285
Road crossing.....	33	13	11.6	81	31	56.7	4,790
Road crossing.....	33	13	03.0	81	32	36.7	3,511
Dunbarton station, directly opposite office window, 30 feet south of center of track, 80 feet west of main street; iron post stamped "Prim. Trav. Sta. No. 104, 1918 Mac." Azimuth to water tank, 1,200 feet distant, 341° 48'.....	33	12	46.2	81	33	15.5	3,708
Road crossing.....	33	12	28.1	81	33	59.0	4,120
Road crossing.....	33	12	09.5	81	34	32.5	3,408
Public-road crossing under railroad.....	33	11	01.3	81	34	57.0	7,202
Public-road crossing.....	33	10	06.7	81	35	39.9	6,612
Myers Mill station, 530 feet west of, public-road crossing.....	33	10	07.5	81	35	57.3	1,477
Second-class road crossing.....	33	09	53.8	81	37	00.5	5,550
Road crossing.....	33	09	41.1	81	37	16.7	1,885
Road crossing.....	33	09	06.0	81	38	06.2	5,509
Public-road crossing.....	33	08	56.3	81	38	53.5	4,135
Robbins, Prim. Trav. Sta. No. 99 (previously described).....	33	08	52.1	81	39	17.0	2,043

## Southeast along Southern Ry.

Hattiesville, U. S. Coast and Geodetic Survey traverse station (previously described).....	33	06	40.43	81	36	36.73	-----
Road crossing, 460 feet south of switch stand at spur.....	33	06	16.9	81	35	39.3	5,436
Road crossing, at spur.....	33	05	47.8	81	34	28.2	6,726
Road crossing.....	33	05	36.5	81	34	00.6	2,607
Road crossing, at sawmill.....	33	05	16.8	81	33	12.4	4,565
Road crossing.....	33	05	00.7	81	32	33.2	3,710
Millet station, road crossing.....	33	04	52.3	81	32	12.7	1,935
Road crossing, second class.....	33	04	35.5	81	31	31.6	3,895
Averill spur, 1,200 feet east of switch stand at, road crossing.....	33	04	28.0	81	30	33.9	4,962

## Near northwest corner of quadrangle. (By B. H. Yoakum in 1918.)

T road west.....	33	12	43.4	81	44	42.2	-----
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## Along highways near west border of quadrangle. (By E. L. McNair in 1918.)

T road north to Griffins Landing.....	33	03	14.1	81	43	29.3	-----
T road south.....	33	03	42.6	81	44	39.8	6,661

## ST. GEORGE QUADRANGLE.

East along highways near south border of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Mount Carmel Church, 60 feet south and 15 feet east of, T road east, on roof of blazed 30-inch oak tree, on south side of tree; copper nail.....	33 00 00.9	80 41 41.2	.....
Forks of road.....	33 00 09.00	80 41 13.0	2,536
T road north at fence corner.....	33 00 09.9	80 40 19.9	4,525
Forks of road just before entering lane.....	33 00 03.0	80 39 26.0	4,650
Right angle in road, second-class road northeast.....	33 00 17.3	80 38 56.0	2,937
Pleasant Grove Church, crossroads at, 9 feet to nail in pine tree, 25 feet to nail in oak tree, 36 feet to nail in sweet-gum tree.....	33 00 06.2	80 38 13.2	3,810
Road forks.....	33 00 07.3	80 37 45.1	2,393
Farm-road crossing on lumber road.....	33 00 26.6	80 36 03.5	8,873
T road west, point is 30 feet south of mail box.....	33 01 03.5	80 34 58.4	6,680
Road forks.....	33 00 24.3	80 34 28.1	4,721

From point near center of south border north and east through center of south part of quadrangle.

Second-class road crossing, T road west.....	33 01 02.3	80 38 00.3	5,778
Definite angle in road.....	33 01 38.9	80 37 34.7	4,292
Road crossing, near Old Red Bank Church.....	33 02 09.4	80 37 40.0	3,116
Weeks post office, 25 feet south and 15 feet east of crossroads, 4 feet north of corner of post office building, 23 feet from corner of fence; iron post stamped "Prim. Trav. Sta. No. 10, 1917 Mac.".....	33 03 21.9	80 37 10.8	7,732
Forks of road.....	33 02 52.8	80 35 57.5	6,895
Private crossroads, at gate on north.....	33 02 46.4	80 35 27.4	2,644
T road south, opposite gate on north side.....	33 02 49.4	80 34 13.4	6,303
T road south.....	33 02 51.8	80 33 29.7	3,732
T road south.....	33 02 50.9	80 32 48.2	3,528
Unused T road north, at pine stake marked "XIII".....	33 02 48.2	80 32 01.4	4,000
Cross roads at three mail boxes.....	33 02 53.4	80 31 25.4	3,110

Magnetic declination near south border of quadrangle, 0°10' E.

## Southeast along Southern Ry.

Second-class road crossing.....	33 13 35.3	80 43 40.8	.....
Dorange station, road crossing.....	33 13 20.1	80 42 45.4	4,945
Milepost 55.....	33 13 00.6	80 41 34.0	6,385
Road crossing.....	33 12 51.0	80 40 58.6	3,150
Private-road crossing.....	33 12 41.7	80 40 24.1	3,085
Milepost 53.....	33 12 28.4	80 39 35.6	4,330
Reeseville station, directly opposite and across track from, 20 feet south of center of track, 60 feet west of public-road crossing; iron post stamped "Prim. Trav. Sta. No. 3, 1918 Mac.".....			
Azimuth to milepost 52, distant 1,130 feet, 287° 47' 25".....	33 12 15.6	80 38 49.2	4,145
Intersection of tangents, 50 feet west of milepost 51.....	33 11 56.4	80 37 38.0	6,360
Badham station, road crossing.....	33 11 41.0	80 36 51.5	4,240
Intersection of tangents, 290 feet east of milepost 49.....	33 11 17.0	80 35 38.7	6,650
St. George station, directly opposite west end of and across track from, 52 feet from southwest corner of building; iron post stamped "Prim. Trav. Sta. No. 4, 1918." Azimuth to Baptist Church spire, 143° 11'.....			
Public-road crossing.....	33 10 59.1	80 34 27.6	6,300
Public-road crossing.....	33 10 42.5	80 33 19.8	6,002
Second-class road crossing.....	33 10 35.1	80 32 49.8	2,665
Second-class road crossing.....	33 10 23.7	80 32 04.1	4,045
Byrd station, road crossing.....	33 10 08.5	80 31 02.3	5,475
Road crossing.....	33 10 03.2	80 30 40.7	1,910

## West along highways near center of quadrangle.

Indian Field Swamp, bridge over.....	33 05 26.6	80 30 46.0	.....
Forks of road, 120 feet east of another fork.....	33 05 28.2	80 31 01.2	1,307
T road south.....	33 05 16.5	80 31 26.0	2,424
Fork of road.....	33 05 44.4	80 32 37.2	6,680
T road north.....	33 05 50.3	80 33 26.9	4,267
Fork of road.....	33 05 11.4	80 35 14.0	9,358
Grover, crossroads at.....	33 06 19.0	80 35 39.0	2,264
Second-class crossroads.....	33 06 50.8	80 36 45.2	6,485
Fork of road, 100 feet east of T road south.....	33 07 05.1	80 37 15.9	2,985
Second-class crossroads.....	33 07 29.6	80 37 51.6	3,911
T road northeast leading to St. George.....	33 07 43.7	80 38 08.7	2,042
Appleby Church, fork of road near, 120 feet east of point where wagon tracks come together.....	33 08 12.8	80 39 08.6	5,875
Fork of road.....	33 08 39.0	80 40 07.8	5,691

## ST. GEORGE QUADRANGLE—Continued.

## West along highways near center of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Fork of road.....	33	08	52.5	80	41	09.0	5,381
Center of Cattle Creek, bridge over.....	33	08	56.4	80	41	32.4	2,026
Angle of 6° in road, 75 feet southeast of small bridge over ditch.....	33	09	22.6	80	42	21.7	4,959
Beulah Church, T road north.....	33	09	42.9	80	42	54.3	3,448
T road east.....	33	10	32.1	80	42	27.5	5,470
T road west.....	33	10	37.7	80	42	05.0	1,995
T road southeast.....	33	11	25.8	80	42	14.5	4,923
T road north.....	33	11	52.9	80	42	11.7	2,754
Fork of road.....	33	12	40.5	80	42	28.4	5,015
Dorange, public-road crossing.....	33	13	20.1	80	42	45.4	4,254

Magnetic declination through center of quadrangle, 14' W.

## South along highways near east border of quadrangle.

St. George station, "Prim. Trav. Sta. No. 4, 1918, Mac." (previously described).....	33	10	59.1	80	34	27.6	.....
Forks of road, settlement road southeast.....	33	09	51.3	80	34	27.9	6,854
T road east.....	33	09	26.6	80	34	29.4	2,491
Forks of road, on center lines three ways.....	33	09	08.0	80	34	13.8	2,300
Center of creek crossing.....	33	08	00.4	80	34	51.6	7,540
T road southeast.....	33	07	43.0	80	35	13.8	2,577
T road north.....	33	07	30.5	80	35	19.7	1,354
Forks of road.....	33	06	43.9	80	35	32.3	4,830
Grover, crossroads at store.....	33	06	19.0	80	35	39.0	2,574
Fork of road, 340 feet north of negro cabin.....	33	05	46.3	80	35	51.7	3,478
Second-class crossroad.....	33	05	05.6	80	36	11.3	4,435
Second-class road westerly.....	33	04	24.8	80	36	30.9	4,445
Center of small wooden truss bridge across Edisto River.....	33	03	51.1	80	36	47.0	3,665
Weeks, "Prim. Trav. Sta. No. 10, 1917 Mac." (previously described).....	33	03	21.9	80	37	10.8	3,578
Small bridge over creek.....	33	03	33.2	80	37	32.0	2,130
T road southwest near gateway across road.....	33	04	23.3	80	38	10.7	6,042
Second-class road southwest.....	33	04	50.4	80	38	46.0	4,066
Fork of road to Raysor's bridge.....	33	05	44.5	80	40	14.8	9,330
Fork of road, second-class road south, along fence.....	33	06	09.9	80	41	21.2	6,203
Angle of 164° at ditch line crossing road.....	33	06	34.1	80	41	47.2	3,293
Green Pond Church, T road southwest near.....	33	06	52.1	80	42	11.7	2,762
Second-class crossroads.....	33	06	37.3	80	42	43.2	3,069
Small bridge, no creek.....	33	06	21.3	80	43	44.0	5,421
Small bridge.....	33	06	17.3	80	44	19.2	3,025

Magnetic declination along east border of quadrangle, 07' W.; near south border, 23' W.

Green Pond Church, T road southwest near.....	33	06	52.1	80	42	11.7	.....
Green Pond Church, 0.6 mile northwest of, opposite small cemetery, 35 feet north of road, in open ground; iron post stamped "Prim. Trav. Sta. No. 6, 1918, Mac." Azimuth to top of B. Risher monument, 225° 35' 20".....	33	07	06.2	80	42	43.9	3,096
T road northeast.....	33	07	59.2	80	44	04.2	8,673
T road southwest.....	33	08	15.9	80	44	38.5	3,375

## Northeast along highways near east border of quadrangle.

St. George station, directly opposite west end of and across track from, 52 feet from southwest corner of building, 20 feet south of center of track, 45 feet east of street crossing; iron post stamped "Prim. Trav. Sta. No. 4, 1918, Mac." Azimuth to Baptist Church spire, 143° 11'.....	33	10	59.1	80	34	27.6	.....
T road northwest.....	33	11	44.2	80	33	56.9	5,252
T road southeasterly.....	33	11	55.0	80	33	18.4	3,447
Angle of 31° in road, on center line both ways.....	33	12	38.5	80	32	25.8	6,272
Forks of road, road northeast runs to Harleyville.....	33	13	17.1	80	32	24.3	3,903
Indian Field Creek, bridge over.....	33	13	46.6	80	32	23.7	2,973
Forks of road.....	33	14	31.8	80	32	04.9	4,843
Forks of road.....	33	14	52.5	80	30	37.3	.....

Magnetic declination for east border of quadrangle, 0° 26' W.

## ST. GEORGE QUADRANGLE—Continued.

Southeast along highways in southwest corner of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Forks of road.....	33	01	36.0	80	44	15.2	.....
Forks of road, at mail box near colored schoolhouse.....	33	01	10.8	80	43	13.4	5,847
Forks of road, second-class road northeast.....	33	00	42.1	80	42	33.3	4,484
Creek crossing, bridge over.....	33	00	27.4	80	42	12.2	2,326
Mount Carmel Church, 60 feet south of (previously described).....	33	00	00.9	80	41	41.2	3,764

Magnetic declination for southwest part of quadrangle, 0° 28' W.

## ST. MATTHEWS QUADRANGLE.

Along highways near south border of quadrangle. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Granite post, township corner, at northwest corner of crossroads.....	33	30	21.4	80	57	22.6	.....
Grape Branch, center of bridge over.....	33	30	46.8	80	57	56.6	3,859
Road fork.....	33	31	11.2	80	58	50.7	5,200
Orangeburg, 10 miles west of, on "96 road," at northeast corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 77, 1918. Elev. 286".....	33	31	22.5	80	59	45.9	4,804

Southwest along Atlantic Coast Line R. R. in southeast corner of quadrangle.

Road crossing at Fersner's.....	33	32	10.4	80	45	21.4	.....
Road crossing.....	33	31	45.6	80	46	13.6	4,860
Road crossing.....	33	31	30.9	80	46	42.8	2,880
Road crossing.....	33	31	14.9	80	47	14.6	3,140
Road crossing.....	33	30	53.0	80	47	58.0	4,290
Road crossing, Orangeburg and Cameron road.....	33	30	21.9	80	48	59.8	6,100
Road crossing.....	33	30	06.3	80	49	28.2	2,869

Northwest along public road in southeast corner of quadrangle.

Center of bridge, at crossroads.....	33	30	12.2	80	48	25.0	.....
Road crossing Orangeburg and Cameron road (previously described).....	33	30	21.9	80	48	59.8	3,110

North along public road to Swansea.

Granite post (previously described).....	33	30	21.4	80	57	22.6	.....
Road fork at church.....	33	30	53.9	80	57	10.9	3,430
North end of bridge over North Fork of Edisto River.....	33	31	31.1	80	56	50.5	4,134
Robinson, crossing on Orangeburg R. R.....	33	32	24.6	80	56	26.6	5,774
T road south.....	33	33	10.9	80	55	49.8	5,622
T road south.....	33	33	29.1	80	56	39.6	4,590
Road fork.....	33	34	12.7	80	57	43.0	6,941
Road fork at schoolhouse.....	33	34	47.1	80	58	18.1	4,568
Orangeburg, 10 miles northwest of, on Orangeburg and North road, in line with T road north, 2 feet north of telephone pole and two mail boxes; iron post stamped "Prim. Trav. Sta. No. 78, 1919 J".....	33	35	25.34	80	58	58.41	5,150
Road fork west.....	33	36	20.0	80	58	30.4	6,015
Crossroads.....	33	37	11.4	80	58	30.9	5,192
Road fork.....	33	37	42.8	80	58	33.8	3,178
Crossing of public road and Orangeburg and Calhoun county line.....	33	38	11.0	80	58	37.3	2,858
Crossroads.....	33	38	57.5	80	58	47.2	4,769
Road fork.....	33	39	25.5	80	58	47.7	2,828
Road fork.....	33	39	56.8	80	58	24.6	3,721
Crossroads, on Kennerly road.....	33	40	09.0	80	57	37.9	4,137
Center of road, opposite house on east side.....	33	40	32.2	80	57	50.5	2,572
Road fork.....	33	41	09.0	80	57	56.9	3,759
Crossroads.....	33	41	39.9	80	58	19.2	3,644
Swansea, 8 miles southeast of, on Kennerly road, in southwest corner, at crossroad to St. Matthews; iron post stamped "Prim Trav. Sta. No. 79, 1919 J".....	33	42	03.76	80	58	37.09	2,840
Road fork at gin.....	33	42	47.8	80	59	03.9	4,985
T road north to house.....	33	43	41.2	80	59	51.3	6,724



## ST. MATTHEWS QUADRANGLE—Continued.

From Cameron northwest along State road to Columbia.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road fork.....	33	36	52.6	80	45	28.5	.....
Center of bridge.....	33	37	18.2	80	45	57.3	3,553
Road fork.....	33	37	57.3	80	46	43.2	5,535
St. Matthews, 2 miles south of, at crossing of State road and Southern Ry., west side of track, north side of State road, 4 feet southeast of crossing sign; iron post stamped "Prim. Trav. Sta. No. 80, 1919 J".....	33	38	28.32	80	47	26.01	4,789
Center of concrete culvert.....	33	38	42.5	80	47	42.4	1,990
Road fork.....	33	39	40.6	80	48	53.7	8,418
Road fork.....	33	40	06.2	80	49	25.0	3,701
Crossroads.....	33	40	18.7	80	49	40.5	1,820
Road fork.....	33	40	34.8	80	50	00.3	.....
Road fork.....	33	40	52.3	80	50	27.9	2,930
Center of road, opposite church.....	33	41	21.1	80	51	01.5	4,068
Center of bridge.....	33	41	56.6	80	51	33.4	4,490
Road fork.....	33	42	14.8	80	51	49.7	2,291
St. Matthews, 7 miles northwest of, at northeast corner of crossing of Fort Motte and Swansea road with State road; iron post stamped "Prim. Trav. Sta. No. 81, 1919 J".....	33	42	52.29	80	52	14.69	4,339
Road fork.....	33	43	40.4	80	52	34.9	5,149
Crossroad at church.....	33	44	34.1	80	53	10.8	6,219
Angle in road, opposite house on east side.....	33	44	53.0	80	53	36.9	2,916

North along public road on line from Orangeburg to post 79.

Road fork.....	33	30	12.7	80	51	31.3	.....
Crossroads.....	33	30	44.7	80	51	59.6	.....
Road fork.....	33	31	21.1	80	51	54.3	3,712
Road fork.....	33	31	57.1	80	51	47.3	3,680
Center of bridge.....	33	32	32.0	80	51	52.1	3,546
Road fork.....	33	33	15.7	80	51	45.6	4,448
Center of bridge.....	33	34	01.1	80	51	50.7	4,610
Road fork.....	33	34	41.6	80	51	46.7	4,109
Center of bridge.....	33	35	09.0	80	51	58.0	2,921
Crossroads.....	33	35	47.4	80	52	16.4	4,181
Orangeburg, 9 miles north of, at St. John Church, 50 feet west of northwest corner and in line with north side; iron post stamped "Prim. Trav. Sta. No. 83, 1919 J".....	33	36	05.00	80	52	23.45	1,876
Center of bridge.....	33	36	56.9	80	52	47.8	5,030
Road fork.....	33	37	36.5	80	52	53.1	4,025
Road fork to St. Matthews.....	33	37	49.2	80	52	52.6	1,290
Center of culvert.....	33	38	30.5	80	53	05.3	4,309
Center of bridge.....	33	38	46.5	80	53	43.0	3,566
Road fork.....	33	39	12.1	80	54	08.8	3,379
Center of road, opposite house and mail box.....	33	39	58.8	80	54	40.8	5,438
Crossroads.....	33	40	36.5	80	55	06.2	4,380
Center of road, opposite gate to gin.....	33	41	15.1	80	55	38.4	4,756
Road fork.....	33	41	48.8	80	56	16.6	4,689
Road fork near church.....	33	42	16.3	80	57	14.7	5,638
Center of bridge.....	33	42	07.5	80	58	02.2	4,115
Swansea, 8 miles southeast of, "Prim. Trav. Sta. No. 79" (previously described).....	33	42	03.76	80	58	37.09	2,969

North along public road to the red store.

Road fork near church (previously described).....	33	42	16.34	80	57	14.69	.....
Crossroads at Zeigler's store.....	33	42	41.8	80	57	14.0	2,577
Crossroads.....	33	43	35.2	80	57	14.5	5,392
Center of bridge.....	33	44	08.3	80	57	15.5	3,345
Beaver Creek, center of bridge over.....	33	44	21.9	80	57	13.8	1,381
Road fork.....	33	44	48.8	80	57	33.5	3,185

East along public road to post 81.

Road fork (previously described).....	33	41	48.8	80	56	16.6	.....
Road fork.....	33	41	47.9	80	55	30.5	3,893
T road south.....	33	42	09.0	80	54	29.6	5,570
Crossroads.....	33	42	25.8	80	54	21.4	1,834
Road fork.....	33	42	28.9	80	53	08.2	6,192
St. Matthews, 7 miles northwest of, Prim. Trav. Sta. No. 81, 1919 J (previously described).....	33	42	52.29	80	52	14.69	5,096

## ST. MATTHEWS QUADRANGLE—Continued.

From post 81 east along public road to Fort Motte.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
"Prim. Trav. Sta. No. 81, 1919 J".....	33	42	52.29	80	52	14.69	<i>Feet.</i>
Center of concrete bridge.....	33	43	12.3	80	51	49.9	2,905
Road fork.....	33	43	52.0	80	51	19.0	4,789
Road fork.....	33	44	11.1	80	50	33.9	4,267
Road fork.....	33	44	17.7	80	49	59.3	2,993
Center of road, opposite three mail boxes at road fork.....	33	44	29.9	80	49	09.8	4,352
Road fork.....	33	44	45.3	80	48	37.0	3,180
Road fork at three mail boxes.....	33	44	12.5	80	47	36.2	6,111
Center of bridge at old mill.....	33	43	17.2	80	46	51.2	6,761
Road fork.....	33	43	20.5	80	46	22.6	2,429
Road fork.....	33	43	23.0	80	45	59.2	1,995
Crossroads.....	33	43	40.6	80	45	19.3	3,803

From post 80 along Southern Ry. to Fort Motte.

St. Matthews, 2 miles south of, "Prim. Trav. Sta. No. 80, 1919 J" (previously described).....	33	38	28.32	80	47	26.01	.....
Road crossing.....	33	39	02.9	80	47	06.0	3,880
Road crossing.....	33	39	31.3	80	46	49.6	3,190
St. Matthews, opposite semaphore of station, center of track.....	33	40	06.2	80	46	29.6	3,904
Road crossing.....	33	40	21.6	80	46	18.8	1,808
Road crossing.....	33	40	43.2	80	45	28.1	4,803

Magnetic declination for quadrangle, 0° 13' W.

## SALUDA QUADRANGLE.

West near south border of quadrangle. (By E. L. McNair in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road crossing.....	34	00	43.5	81	45	09.3	<i>Feet.</i>
Road fork 1 mile east of Saluda, 70 feet west of milepost marked "1 mile".....	34	00	42.2	81	45	32.6	1,959
Saluda crossroad, at 500 feet west of St. Paul's M. E. Church.....	34	00	14.1	81	46	11.1	4,316
Saluda, about 0.5 mile northwest of, on road to Good Hope Church, 15 feet north of center of road, across road from house of Ben Rankin; iron post stamped "Prim. Trav. Sta. No. 4, 1919 Mac." Azimuth to spire on Lutheran Church, 341° 27' 45".	34	00	25.7	81	46	38.3	2,570
Forks of road, about 100 feet easterly from milepost 1.....	34	00	31.2	81	47	06.7	2,454
T road N. about 15° E.....	34	01	06.1	81	48	35.0	8,234
Creek crossing.....	34	00	20.5	81	49	14.2	5,670
T road west between two farm buildings.....	34	00	14.5	81	49	32.2	1,626

Magnetic declination along south border of quadrangle, 00° 00'.

## SANTEE QUADRANGLE.

Northeast through north half of quadrangle. (By Oscar Jones in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
South one of two small bridges.....	33	07	13.0	79	29	44.9	<i>Feet.</i>
Crossroads.....	33	07	31.0	79	29	20.3	3,885
Center of small bridge.....	33	07	49.6	79	29	02.8	2,766
Center of road, in front of schoolhouse.....	33	08	02.4	79	29	04.2	2,398
Center of road, opposite house and gate on west side of road.....	33	09	01.5	79	28	57.8	1,297
Center of small bridge.....	33	09	42.7	79	28	22.4	5,998
Road forks.....	33	10	03.9	79	28	13.7	5,131
St. James brick church, northeast corner.....	33	10	17.9	79	27	55.1	2,267
Road fork, at large pond.....	33	11	12.4	79	26	20.4	2,120
Crossroads.....	33	11	20.8	79	26	02.9	9,758
							1,709

## SANTEE QUADRANGLE—Continued.

Northeast through north half of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
South Fork of Santee River, south bank, at James Ferry .....	33	11	57.2	79	25	08.4	5,909
South Fork of Santee River, north bank .....	33	12	07.4	79	25	04.0	1,096
North Fork of Santee River, south bank .....	33	12	55.7	79	24	06.1	6,935
North Fork of Santee River, north bank .....	33	12	59.1	79	24	00.1	610
Road fork .....	33	12	52.0	79	23	00.8	5,090
Road fork 1 mile east and 0.5 mile north of Lynch's Ferry across Santee River; iron post stamped "Prim. Trav. Sta. No. 3" ..	33	13	16.5	79	22	44.5	2,832
Center of road, in front of house .....	33	14	20.6	79	22	33.0	6,555
Road fork .....	33	14	59.8	79	22	30.6	3,965

East along highways in north part of quadrangle.

Road forks .....	33	14	58.6	79	24	57.0	.....
Road fork .....	33	14	56.5	79	24	51.5	512
Creek crossing .....	33	14	44.3	79	24	37.8	1,696
Road fork .....	33	14	23.8	79	24	01.6	3,708
Center of bridge .....	33	13	57.8	79	23	08.2	5,237
Prim. Trav. Sta. No. 3, junction of line from Charleston to Georgetown=station 278 .....	33	13	16.5	79	22	44.5	4,636
Road crossing .....	33	13	00.3	79	22	04.5	3,772
Road fork .....	33	13	01.0	79	21	32.1	2,760
Road fork at church .....	33	13	03.5	79	21	15.9	1,396
Creek crossing .....	33	12	58.9	79	20	56.0	1,758
Crossroads .....	33	12	55.0	79	20	43.8	1,100
Creek crossing .....	33	13	12.2	79	20	05.3	3,705
Crossroads .....	33	13	11.0	79	19	57.8	648
Crossroads .....	33	13	04.0	79	19	32.1	2,296
Road fork to Kinlock Gun Club .....	33	12	57.5	79	19	09.5	2,030
Road fork .....	33	12	59.0	79	18	02.8	5,669
Road fork .....	33	13	35.0	79	17	47.2	3,872
Center of road, opposite pine tree marked "U. S." .....	33	14	13.6	79	17	20.1	4,530

Magnetic declination for north part of quadrangle, 1.5° W.

East along highways. (Partly checked by flat triangle to Cape Romain Lighthouse. By Oscar Jones in 1917.)

Center of road, opposite 34th milepost .....	33	05	52.4	79	29	22.8	.....
Center of bridge .....	33	06	00.1	79	28	52.4	2,706
Iron bench-mark post, elevation 12.7, U. S. Dept. of Agriculture ..	33	05	34.4	79	28	28.3	3,310
Road fork .....	33	05	35.9	79	27	53.4	2,972
McClellansville, crossroads at Methodist Church .....	33	05	10.4	79	27	38.0	2,893
Road fork .....	33	05	43.6	79	26	32.2	6,528
Center of bridge over ditch .....	33	06	04.8	79	26	01.0	3,411
Crossroads .....	33	06	11.3	79	25	46.5	1,398
Cape Romain Lighthouse, U. S. Coast and Geodetic Survey station (connected with by poor triangulation) .....	33	01	07.59	79	22	25.60	35,004

Magnetic declination for east part of quadrangle, 1.0° W.

## SAVANNAH QUADRANGLE.

By E. L. MacNair in 1917.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
North end of approach to girder bridge crossing Savannah River ..	32	14	26.9	81	07	58.5	.....

In northeast corner of quadrangle. (By H. S. Senseney in 1918.)

Pritchard station, railroad crossing 500 feet north of .....	32	14	38.9	81	00	00.0	.....
Pritchard station, 0.90 mile southwest of, east end of iron bridge ..	32	14	10.3	81	00	43.8	4,740
T road northwest, at old store .....	32	13	54.0	81	01	11.8	2,917
Road forks .....	32	14	19.1	81	01	29.4	2,956

## SCRANTON QUADRANGLE.

North along Atlantic Coast Line R. R. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Center of small culvert.....	33 45 15.6	79 47 44.5	.....
Center of small trestle.....	33 45 41.7	79 47 35.0	2,760
Road crossing.....	33 46 11.3	79 47 24.2	3,130
Cades station, 50 feet south of, 30 feet west of track, 3 feet east of crossing sign; iron post stamped "Prim. Trav. Sta. No. 2 J, 1918".....	33 47 06.8	79 47 04.2	5,857
Road crossing.....	33 48 17.7	79 46 38.0	7,500
Road crossing.....	33 49 11.3	79 46 19.1	5,649
Road crossing.....	33 49 41.4	79 46 09.1	3,150
Road crossing.....	33 50 18.0	79 45 56.8	3,840
Road crossing.....	33 50 51.9	79 45 45.5	3,560
Road crossing.....	33 51 35.1	79 45 31.0	4,540
Lake City station, 100 feet northwest of northwest corner of, 2 feet north of crossing sign; iron post stamped "Prim. Trav. Sta. No. 3 J, 1918".....	33 52 17.8	79 45 17.0	4,480
South end of trestle.....	33 52 45.3	79 45 07.5	2,880

Magnetic declination north along Atlantic Coast Line R. R., 1° 46' W.

East along highways. (By Oscar Jones in 1918.)

Road fork.....	33 45 06.1	79 55 55.7	.....
Gate across road.....	33 45 46.1	79 55 57.0	4,052
Center of bridge.....	33 46 11.4	79 56 03.3	2,720
Crossroads at gin.....	33 46 54.6	79 56 07.2	4,382
Center of bridge.....	33 47 37.3	79 56 26.3	4,608
Cades Road and Pudding Swamp Road, junction, 10 miles west of Cades, in triangle grass plot at road fork; iron post stamped "Prim. Trav. Sta. No. 39 J, 1918".....	33 48 35.3	79 56 39.2	5,962
Center of bridge.....	33 48 36.4	79 56 07.8	2,649
Gate across road.....	33 48 50.2	79 55 19.9	4,278
Center of bridge.....	33 49 01.0	79 53 59.8	6,849
Church and schoolhouse, crossroads.....	33 49 00.2	79 53 11.4	4,085
Crossroads.....	33 48 45.1	79 52 14.5	5,039
T road south at 5-mile post.....	33 48 32.3	79 51 26.0	4,289
Center of bridge.....	33 48 17.6	79 50 32.1	4,781
Gate across road.....	33 47 55.0	79 49 29.9	5,732
Crossroads.....	33 47 45.7	79 49 02.1	2,520
Bend in road, end of tangent from Cades.....	33 47 47.0	79 48 36.8	2,138
Crossroads.....	33 47 25.8	79 47 26.5	6,311
Cades, Prim. Trav. Sta. No. 2 (previously described).....	33 47 06.8	79 47 04.2	2,693

Magnetic declination east along highways, 1° 17' W.

East along public road near south and east borders of quadrangle. (By Oscar Jones in 1918.)

Cades, Prim. Trav. Sta. No. 2 (previously described).....	33 47 06.8	79 47 04.2	.....
Road fork.....	33 47 12.6	79 46 42.4	1,927
Road fork.....	33 46 49.4	79 45 26.9	6,791

Along highways near west border of quadrangle.

Prim. Trav. Sta. No. 39 (previously described).....	33 48 35.3	79 56 39.2	.....
Road fork.....	33 49 18.0	79 56 53.2	4,480
Pudding Creek, center of bridge over.....	33 49 24.2	79 57 23.6	2,644
Road fork.....	33 49 24.1	79 57 03.5	2,300
Center of bridge.....	33 49 28.3	79 58 36.6	3,881
Center of small culvert, near bend in road.....	33 49 46.8	79 59 45.8	6,135

Along highways through center of quadrangle.

Crossroads.....	33 52 33.2	79 59 07.5	.....
Bridge, west end of.....	33 51 49.4	79 58 13.3	6,362
Sawmill, road fork at.....	33 51 58.3	79 57 14.0	5,086
Railroad crossing.....	33 52 28.4	79 57 03.5	3,165
Crossroads at store.....	33 53 09.3	79 56 44.6	4,440
Road fork.....	33 53 09.8	79 55 58.2	3,904
Road fork.....	33 53 13.6	79 55 24.0	2,910

## SCRANTON QUADRANGLE—Continued.

Along highways through center of quadrangle—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Central, in southwest corner of schoolhouse yard, 70 feet south and 10 feet west of flowing well; iron post stamped "Prim. Trav. Sta. No. 40 J".....	33 53 17.2	79 54 42.6	3,513
Road to house.....	33 53 15.2	79 53 27.8	6,304
Center of the more western of two bridges.....	33 53 09.4	79 52 52.4	3,040
Road fork.....	33 52 59.4	79 52 05.1	4,114
Crossroads.....	33 53 29.1	79 51 17.3	5,031
Road fork at well.....	33 53 05.0	79 50 50.9	3,302
Road fork.....	33 52 57.1	79 49 57.5	4,570
Tram railroad crossing.....	33 53 09.8	79 49 21.3	3,307
Center of bridge.....	33 53 13.4	79 48 36.7	3,775
Road fork at large signboard.....	33 53 20.6	79 47 54.9	3,599
Center of bridge.....	33 53 12.4	79 47 28.9	2,347
Center of bridge.....	33 52 43.7	79 46 16.1	6,786
Road fork at city limits.....	33 52 34.8	79 45 41.6	3,044
Lake City, Prim. Trav. Sta. No. 3 (previously described).....	33 52 17.8	79 45 17.0	2,687

## North along highways near west border of quadrangle.

Road fork, 100 feet north of bridge.....	33 54 41.1	79 54 00.6	.....
T road west at church.....	33 54 29.3	79 58 27.5	3,031
Road fork.....	33 54 58.7	79 57 48.7	4,419
T road northwest.....	33 55 49.5	79 56 54.7	6,858
Woods Mill, center of bridge.....	33 56 49.5	79 58 25.7	9,777
Road fork.....	33 57 20.1	79 59 04.6	4,500
Crossroads.....	33 57 55.0	79 59 42.4	.....
Crossroads, Atlanta and Lynchburg and Hudson Bridge roads, in northwest corner of; iron post stamped "Prim. Trav. Sta. No. 41, 1918".....	33 58 20.6	79 59 23.8	3,020
Road fork.....	33 58 39.0	79 58 54.2	3,113
Road fork.....	33 59 40.0	79 58 06.1	7,374

## Along highways near north border of quadrangle.

Center of road, opposite church.....	33 59 47.5	79 55 53.1	.....
Road fork.....	33 59 12.3	79 55 01.6	5,606
Mott's crossroads.....	33 58 42.3	79 54 18.0	4,769
Road fork.....	33 58 56.2	79 53 24.2	4,743
Lynch River, center of Welch Bridge over.....	33 59 22.6	79 53 10.0	2,921
T road northwest.....	33 59 53.8	79 52 34.0	4,379
Crossroads at store.....	33 59 21.2	79 48 35.8	.....
T road north.....	33 59 17.7	79 47 27.3	5,778
Road fork at house.....	33 59 37.5	79 47 08.8	2,538
Crossroads.....	33 58 49.4	79 50 34.0	.....
Crossroads.....	33 59 33.5	79 59 36.5	4,455

Magnetic declination for north border of quadrangle, 1° 20' W.; for west border, 0° 54' W.; for east border, 1° 28' W.; for center, 1° 04' W.

## SEIVERN QUADRANGLE.

Along highways near west border of quadrangle. (By B. H. Yoakum in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Cedar Creek, center of bridge over.....	33 38 34.0	81 29 14.7	.....
Crossroads.....	33 38 42.5	81 28 10.8	5,466
Bethcar School, 800 feet west of, road forks.....	33 38 51.1	81 26 59.8	6,068
Bethcar Church, 900 feet north of, 15 feet north and 25 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 11, 1918 Y".....	33 38 54.1	81 26 19.5	3,422
Lane northwest to residence of John Gross.....	33 37 42.8	81 26 48.4	7,611
Road forks.....	33 37 28.0	81 27 01.6	1,861
Crossroads at Dora Baldwin's residence.....	33 37 10.4	81 27 18.5	2,283
Road forks.....	33 36 42.9	81 27 39.5	3,294

## SEVERN QUADRANGLE—Continued.

Along highways near west border of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road forks, 30 feet north of, 190 feet west of Burkadoo Creek ford, on west side of road, in root on east side of 4-foot water-oak tree; copper nail and washer.	33	35	31.4	81	27	48.5	7,263
T road west to Aiken.	33	34	38.9	81	28	37.0	6,711
Kitchings Mills post office, center of main road, in front of W. D. McNair's store.	33	33	54.5	81	28	53.0	4,682
Pine Log Bridge over Edisto River, north end of.	33	33	20.2	81	29	00.9	3,532
Crossroads.	33	32	06.6	81	29	37.6	8,056
Crossroads at mail box.	33	31	37.9	81	29	44.4	2,959
Sawmill, forks of road, in front of old house north of.	33	39	38.4	81	26	20.1	-----
Fork of road, 1,650 feet north of negro's house.	33	40	14.4	81	26	25.8	3,672
Mrs. Neva Effit's house, crossroads near.	33	40	44.4	81	26	18.0	3,100
Crossroads at mail box 31.	33	40	56.1	81	26	53.3	3,205
Crossroads at mail box.	33	41	44.8	81	28	03.6	7,714
Beu ah Gin Co.'s sawmill, 700 feet north of crossroads.	33	42	06.6	81	28	29.0	3,076
W. K. Kitchen's house, forks at.	33	42	40.5	81	29	46.1	7,361
Forks of road.	33	42	49.8	81	29	54.9	1,192

Magnetic declination for west border of quadrangle, 0° 20' E.

Along highways near south border of quadrangle. (By G. T. Hawkins in 1918.)

Crossroads at mail box.	33	31	37.6	81	29	44.5	-----
Second-class road crossing.	33	32	42.6	81	29	27.1	6,727
Road fork southeast, south of bridge.	33	33	12.0	81	29	09.2	3,333
Forks of road.	33	33	40.0	81	28	53.4	3,133
Kitchings Mills, forks of road at small house and barn.	33	33	42.9	81	28	40.3	1,115
Forks of road, locust tree 150 feet southeast.	33	33	37.6	81	27	47.6	4,487
Harriet Kitchings library, second-class crossroad.	33	33	27.2	81	27	37.3	1,373
Southeast corner of large white church.	33	32	48.6	81	26	23.6	7,354
Crossroads at painted house.	33	32	42.7	81	25	53.9	2,582
Crossroads east of branch.	33	32	02.8	81	24	38.1	7,580
Crossroads, 15 feet northwest to mail box.	33	31	55.0	81	23	33.7	5,513
Forks of road at cabin.	33	31	27.7	81	22	42.1	5,167
Crossroads, in front of big house.	33	31	21.2	81	22	28.5	1,328
Crossroads at mail box.	33	31	01.1	81	21	54.0	3,553
Springfield, 5 miles northwest of, 50 feet west of mile post 5; iron post stamped "Prim. Trav. Sta. No. 54, 1918 H".	33	30	41.3	81	21	22.1	3,359
Crossroads, 150 feet southwest to house and red barn.	33	30	47.2	81	19	34.6	9,129
Creek south.	33	30	45.3	81	19	05.8	2,443
Second-class road, 300 feet north to shanty.	33	30	36.0	81	18	16.2	4,309
Forks of road.	33	30	21.6	81	17	42.5	3,201
Road crossing north of Springfield (Station 642=azimuth mark).	33	29	47.2	81	16	46.1	5,906

Magnetic declination near south border of quadrangle, 5' E.

From Perry along Southern Ry. to Thor thence west to post 12. (By E. L. McNair in 1919.)

Wagner, "Prim. Trav. Sta. No. 56, 1918 H" (described on p. 713).	33	38	58.30	81	21	29.70	-----
Second-class road crossing.	33	38	44.9	81	20	54.4	3,281
Road crossing.	33	38	20.0	81	19	47.2	6,210
Road crossing.	33	38	02.2	81	18	59.6	4,415
Public-road crossing.	33	37	57.5	81	18	44.2	1,383
Road crossing.	33	38	40.1	81	18	24.9	4,610
Road crossing.	33	39	28.9	81	18	02.9	5,270
Public-road crossing.	33	40	02.4	81	18	11.8	3,469
Intersection of railroad tangents.	33	41	03.9	81	16	55.7	8,947
Public-road crossing.	33	41	10.9	81	16	26.9	2,532
Public-road crossing.	33	41	30.6	81	15	56.0	3,279
Thor station, 80 feet south of, 20 feet south of road crossing, 13 feet east of center of track, 5 feet southwest of crossing signpost; iron post stamped "Prim. Trav. Sta. No. 12, 1919 Mac." Azimuth to switch stand at north end of Thor siding, 179° 01' 20".	33	42	34.78	81	15	31.63	6,807
Second-class crossroad.	33	42	21.8	81	16	12.2	3,667
Forks of road, junction with Charleston and Mount Willing road.	33	42	06.8	81	16	35.4	2,480
Black Creek, center of bridge over.	33	42	05.4	81	17	07.1	2,683
Forks of road.	33	42	15.6	81	17	27.2	1,990
Forks of road.	33	42	33.3	81	18	06.0	3,738
Crossroad.	33	42	47.9	81	18	38.8	3,135
Creek crossing, no bridge.	33	42	49.0	81	19	10.5	2,680
Forks of road, 75 feet southeast of mail box.	33	43	17.8	81	19	45.4	4,146
Center of small creek crossing, no bridge.	33	43	28.0	81	20	01.4	1,696

## SEVERN QUADRANGLE—Continued.

From Perry along Southern Ry. to Thor thence west to post 12—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Cedar tree 1 foot in diameter, at southwest corner of Alfred Gunter's tenant house.....	33 43 50.8	81 20 33.1	3,535
Small creek crossing, no bridge.....	33 44 03.3	81 20 45.4	1,638
Wagener, 7 miles north of, 1 mile northeast of crossing of Edisto River, on Wagener and Pelion road, about 18 feet east of crossroad, near Cash Fallon's house, road going west to Seivern; iron post stamped "Prim. Trav. Sta. No. 13, 1919, Mac." Azimuth to nail in oak tree, 500 feet distant, 193° 00' 55"; to nail in root of stump in field, 802.5 feet distant, 113° 24'.....	33 44 08.95	81 21 10.68	2,210
Forks of road.....	33 44 18.8	81 21 38.1	2,524
Forks of road, junction with public road.....	33 44 42.7	81 22 36.1	5,452
Forks of road.....	33 44 14.7	81 22 55.6	3,276
Center of North Fork of Edisto River, at Merritt's bridge.....	33 43 37.2	81 23 23.9	4,477
Second-class crossroad.....	33 43 25.2	81 23 52.4	2,692
Road crossing on Southern Ry., north of Seivern station, at milepost 16.....	33 43 04.9	81 24 37.9	4,360
Seivern station, public-road crossing.....	33 42 46.9	81 24 48.4	2,062
Forks of road.....	33 42 50.4	81 25 12.7	2,060
Crossroad.....	33 42 38.0	81 26 09.2	4,937
T road south, 30 feet southwest to mail box.....	33 42 30.4	81 26 30.0	1,911
Forks of road.....	33 42 34.2	81 27 28.1	4,928
T road north.....	33 42 33.5	81 27 58.4	2,561
Public crossroads.....	33 42 12.0	81 28 39.0	4,060
Second-class crossroad.....	33 42 22.0	81 29 15.1	3,208
T road southerly.....	33 42 40.9	81 29 46.5	3,275
Crossroads.....	33 42 54.1	81 29 58.2	1,666

## From Thor north along Southern Ry. to Pelion.

Thor, Prim. Trav. Sta. No. 12 (previously described).....	33 42 34.78	81 15 31.63	.....
Center of track, at milepost 133.....	33 43 24.0	81 15 32.2	4,975
Thor, 1.5 miles north of, 60 feet south of road crossing, 15 feet west of center of track; iron post stamped "Elev. 373".....	33 43 51.96	81 15 32.54	2,827
Road crossing.....	33 44 31.2	81 15 32.6	3,968

Magnetic declination for north half of quadrangle, 0° 08' W.

From southeast corner of quadrangle north along east border. (By G. T. Hawkins in 1918.)

Springfield, 1 mile east of, forks of road.....	33 30 22.5	81 15 33.8	.....
T road east at milepost 3.....	33 31 41.0	81 15 10.9	8,169

## From east border of quadrangle west to Wagener.

Crossroads.....	33 35 42.1	81 15 08.6	.....
Crossroads, 30 feet northwest to bridge.....	33 36 11.6	81 15 54.3	4,890
T road southwest along wire fence.....	33 36 48.3	81 16 55.3	6,349
Fork to west.....	33 37 25.8	81 17 45.7	5,703
Crossroads.....	33 37 44.2	81 18 10.3	2,789
Perry, 0.5 mile north of, crossing on main line.....	33 37 57.4	81 18 44.4	3,176
Crossroads.....	33 38 20.9	81 19 44.0	5,576
Second-class road at house.....	33 38 46.7	81 20 53.3	6,405
Wagener, 0.25 mile east of, 15 feet northwest of crossing; iron post stamped "Prim. Trav. Sta. No. 56, 1918 H".....	33 38 58.30	81 21 29.70	3,293

## From west border of quadrangle east to Wagener.

Fork.....	33 38 32.5	81 29 53.4	.....
Fork at schoolhouse.....	33 38 36.2	81 28 57.9	4,713
Crossroads.....	33 38 39.0	81 28 33.2	2,109
Fork to point 2,250 feet west of schoolhouse.....	33 38 52.6	81 26 54.2	8,479
Crossroads at house.....	33 38 53.9	81 26 19.4	2,948
Crossroads, 400 feet north to house.....	33 39 07.8	81 24 14.2	10,679
Wagener, 1.25 miles west of, forks.....	33 39 31.9	81 22 57.1	6,958
Wagener, just east of crossing, joint in north rail of main line.....	33 39 03.3	81 21 43.5	6,857
Wagener, "Prim. Trav. Sta. No. 56, 1918 H" (previously described).....	33 38 58.3	81 21 29.7	1,272

Magnetic declination through center of quadrangle, 0° 01' E.





## SUMMERVILLE QUADRANGLE.

Northeast along railroad. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fect.
Center of girder bridge.....	33 00 29.1	80 02 12.7	.....
Mount Holly station, road crossing 150 feet south of.....	33 01 53.1	80 02 02.7	8,535
Center of girder bridge.....	33 02 57.9	80 01 54.9	6,580
Public-road crossing.....	33 03 33.3	80 01 50.6	3,600
Strawberry station, 185 feet south of, 65 feet south of road, 40 feet east of center of north-bound track, 7 feet east of southeast corner of tool house; iron post stamped "Prim. Trav. Sta. No. 17, 1917 Mac." Azimuth of long railroad tangent south, sighting to top of hill at Mount Holly station, 5° 46' 00".....	33 05 26.8	80 01 36.6	11,527
Milepost Chn. 24.....	33 06 06.3	80 01 32.3	4,018
Center of iron-girder bridge.....	33 06 59.2	80 01 25.9	5,370
Oakley station, 75 feet north of, public-road crossing.....	33 07 27.5	80 01 22.5	2,876
Road crossing.....	33 08 51.4	80 01 12.4	8,524
Second-class road crossing.....	33 09 21.6	80 01 08.7	3,070
Road crossing at sawmill.....	33 10 03.9	80 00 57.4	4,375
Milepost Chn. 29.....	33 10 44.1	80 00 39.1	4,350
Monck's Corner station, 600 feet south of, 45 feet west of center of southbound track; iron post stamped "Prim. Trav. Sta. No. 18, 1917 Mac." Azimuth of railroad tangent from station looking north 1,800 feet, 200° 49' 20"; to semaphore post on west side of track about 1 mile distant, 20° 29' 00"; to semaphore post in front of station, 203° 15' 30", sighted just below targets.....	33 11 26.6	80 00 20.6	4,578
Monck's Corner station, street crossing.....	33 11 32.6	80 00 17.1	670
Second-class road crossing.....	33 11 53.4	80 00 07.7	2,250

## Southeast along Southern Ry.

Summerville, five corners at West Main Street, at junction with Bacon's bridge road.....	33 00 24.7	80 11 15.5	.....
Southern Ry. station, across track from, directly opposite office window, 55 feet from center of main track, 100 feet N. 25° W. from Main Street crossing of Southern Ry., approximately 50 feet northwest of center line of Main Street going northeast; iron post stamped "Prim. Trav. Sta. No. 57, 1917 Mac.".....	33 01 13.4	80 10 30.2	6,257
Road crossing.....	33 00 50.6	80 09 48.8	4,203
Lincolntonville flag station, road crossing at.....	33 00 33.1	80 09 16.2	3,290
Public-road crossing.....	33 00 04.1	80 08 22.0	5,465

## Along highways.

T road, junction with Charleston and Moncks Corner road.....	33 00 12.8	80 02 34.4	.....
Road fork.....	33 00 35.6	80 02 46.8	2,543
Road fork.....	33 01 53.6	80 02 18.7	8,230
Public-road crossing at Mount Holly.....	33 01 53.1	80 02 02.7	1,360

## Northwest along Southern Ry. in southwest corner of quadrangle.

Public-road crossing.....	33 01 46.1	80 11 32.2	.....
Drainland, center of track, opposite shelter station, 100 feet southeast of switch stand.....	33 02 35.0	80 13 02.7	9,155
Private-road crossing.....	33 02 56.0	80 13 41.8	3,940
Jedburg flag station, about 4 feet in rear of shelter station, about in line with telegraph poles, on northeast side of track; iron post stamped "Prim. Trav. Sta. No. 60, 1917 Mac.".....	33 03 18.1	80 14 22.2	4,099

## West from Oakley station along highways through center of quadrangle.

Forks of road, 50 feet northwest of gate across road.....	33 07 52.1	80 02 28.2	.....
Crossing of roadbed of abandoned tramroad.....	33 08 07.7	80 02 55.2	2,783
Forks of road, about 70 feet south of second-class road.....	33 08 26.8	80 03 48.1	4,892
T road N. 70° W.....	33 09 10.9	80 03 34.8	4,604
Crossing of lumber company's railroad.....	33 09 28.5	80 04 20.2	4,245
Forks of road.....	33 09 27.9	80 05 12.5	4,446
Forks of road, second-class road southerly.....	33 08 56.2	80 07 20.9	11,384
T road south.....	33 08 47.0	80 07 54.0	2,960
T road north.....	33 08 37.6	80 08 27.5	3,000
Summerville, 10 miles north of, on State road, at junction with road going east to Oakley, 15 feet west of center of road, in line with road running N. 62° E., 0.5 mile southeast of store; iron post stamped "Prim. Trav. Sta. No. 58, 1917 Mac.".....	33 08 14.4	80 09 14.2	4,612

## SUMMERVILLE QUADRANGLE—Continued.

West from Oakley station along highways through center of quadrangle—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Road northeast to Monck's Corner, at Longridge store, road south is 50 feet southeast.....	33 08 32.2	80 09 39.0	2,774
Center of southerly one of three bridges.....	33 08 58.5	80 10 27.1	4,876
T road southwest, 10 miles to Ridgeville.....	33 09 25.9	80 11 02.6	4,096
Angle of 56° in road, about 80 feet southwest of bridge.....	33 08 57.3	80 11 25.8	3,493
Road forks, private road to house.....	33 08 28.6	80 11 55.2	3,828
T road northwesterly.....	33 07 54.5	80 12 32.4	4,676
Forks of road.....	33 07 40.9	80 13 00.2	2,735
T road northwest.....	33 07 28.8	80 13 29.1	2,743
Forks of road.....	33 07 22.1	80 14 09.1	3,469

## Northwest along highways in northwest corner of quadrangle.

Crossroad.....	33 10 25.3	80 12 25.8	.....
Small sluiceway bridge.....	33 12 00.6	80 14 43.3	15,138
Private road southwest, through gate.....	33 12 10.3	80 14 57.0	1,520

## Southeast along highways in northeast corner of quadrangle.

Angle of 13° in road, 215 feet north of crossing of tramroad.....	33 14 21.6	80 02 11.7	.....
Pinopolis graded school, about 0.6 mile north of, between forks of road and about 80 feet north of junction; iron post stamped "Prim. Trav. Sta. No. 69, 1917 Mac." Azimuth to nail in root of pine tree 8 feet west of road, 18 inches from trunk, 10° 23'.....	33 14 08.9	80 02 06.3	1,371
Forks of road, about 850 feet south of church, 100 feet south of gin.....	33 13 24.3	80 02 18.8	4,634
Forks of road, at north end of triangle, 400 feet north of church.....	33 12 41.3	80 02 35.0	4,554
Angle of 20° in road, at junction of two long stretches.....	33 12 13.9	80 02 04.1	3,814
Forks of road.....	33 11 54.6	80 01 10.2	4,984
Monck's Corner, Prim. Trav. Sta. No. 18 (previously described).....	33 11 26.6	80 00 20.6	5,069

## Northeast along highways in northwest corner of quadrangle. (By E. L. McNair in 1917.)

Small road bridge.....	33 13 08.7	80 14 21.1	.....
Forks of road.....	33 13 24.0	80 13 59.0	2,429
Crossroad.....	33 14 05.4	80 12 51.8	7,085
Forks of road at corner of field and 10 feet west of small bridge.....	33 14 41.6	80 12 05.0	5,400

Magnetic declination southeast along Southern Ry., 0.9° W.; west through center of quadrangle, 0.8° W.; in northeast corner, 1.0° W.

## From Eutaw Springs east along Moncks Corner road to Pinopolis.

Road fork.....	33 14 22.6	80 02 11.8	.....
Prim. Trav. Sta. No. 69 Mac. 1917 (previously described).....	33 14 08.86	80 02 06.26	1,470

## SUMTER QUADRANGLE.

## Northwest along Atlantic Coast Line R. R. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Feet.</i>
Road crossing at Brogden, 100 feet north of depot.....	33 48 35.6	80 15 35.4	.....
Road crossing at Elev. 146.....	33 50 17.2	80 16 50.7	12,079
U. S. permanent bench mark, north side of track.....	33 51 07.4	80 17 27.7	5,957
Road crossing.....	33 51 16.1	80 17 34.3	1,034
Road crossing.....	33 52 06.9	80 18 11.9	6,030
Road crossing at Elev. 146.....	33 52 52.0	80 18 45.3	5,368
Road crossing at Elev. 144.....	33 53 19.8	80 19 06.0	3,310
Road crossing.....	33 54 19.4	80 19 50.1	7,080
Sumter, 300 feet west of depot, at southwest corner of railroad park, 5 feet east of street curb, 6 feet north of railroad track; iron post stamped "Prim. Trav. Sta. No. 47, J 1918. Elev. 169 feet".....	33 54 54.9	80 20 24.4	4,598

## SUMTER QUADRANGLE—Continued.

Along highways from New Zion to Sumter.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	<i>Fect.</i>
Road forks.....	33 54 13.0	80 15 11.1	.....
Road forks.....	33 54 40.3	80 16 09.1	5,616
Center of bridge over ditch.....	33 54 58.7	80 16 51.4	4,021
Road forks.....	33 54 55.7	80 17 27.6	3,070
Road forks.....	33 54 52.2	80 19 01.0	7,880
Crossroads.....	33 54 51.1	80 19 27.9	2,271
Crossing on Atlantic Coast Line R. R.....	33 55 14.3	80 19 48.1	2,896

From Sumter northeast along Atlantic Coast Line R. R. to post 51.

Second-class road crossing.....	33 56 00.9	80 18 23.4	.....
Second-class road crossing.....	33 56 28.2	80 17 33.6	5,021
Public-road crossing.....	33 57 02.4	80 16 31.4	6,280
Second-class road crossing.....	33 57 50.8	80 15 03.2	8,889

From primary traverse station 51 west along highway near north border of quadrangle.

Crossroads.....	33 58 51.9	80 15 16.4	.....
T road south.....	33 58 53.3	80 15 57.5	3,460
Crossroads.....	33 58 55.3	80 16 56.1	4,945
Center of bridge.....	33 58 48.4	80 17 16.3	1,836
Crossroads.....	33 58 45.9	80 17 51.8	2,995
Crossing on Atlantic Coast Line R. R.....	33 58 48.6	80 18 14.0	1,898
Center of bridge.....	33 59 02.0	80 19 04.0	4,417
Center of bridge over mill race.....	33 59 01.8	80 19 24.5	1,728
Crossroads at church and store.....	33 58 56.2	80 19 42.3	1,603
Crossroads.....	33 59 21.3	80 20 42.2	5,650
Crossing on Seaboard Air Line Ry.....	33 59 23.7	80 21 06.4	2,051
T road south.....	33 59 13.9	80 21 48.8	3,702
Crossroads at three mail boxes.....	33 59 30.3	80 22 35.2	4,242
Road forks.....	33 59 37.1	80 23 21.1	3,928
Delzell, 2 miles southeast of, west side of road, in line with T road east, 130 feet north of milepost 7.....	33 59 44.3	80 24 19.0	4,929
Crossroads.....	33 59 36.3	80 29 54.3	.....

On south edge of quadrangle.

Five corners at cotton gin.....	33 45 01.00	80 19 00.5	.....
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From Sumter west along Atlantic Coast Line R. R. to Wedgefield.

Road crossing.....	33 54 39.7	80 21 19.2	.....
Road crossing.....	33 54 30.6	80 22 51.3	7,810
Milepost 40, U. S. permanent bench mark. Elev. 183.....	33 54 25.5	80 23 41.2	4,243
Road crossing.....	33 54 21.0	80 24 27.9	3,958
Road crossing.....	33 54 15.3	80 25 26.0	4,930
Road crossing.....	33 54 09.4	80 26 24.7	4,980
Cane Savannah, on east side of public road, 5 feet north of cross- ing signpost; iron post stamped "Prim. Trav. Sta. No. 57, J 1918. Elev. 183".....	33 54 06.2	80 26 59.2	2,925
Center of trestle.....	33 54 01.8	80 27 30.4	2,666
Road crossing.....	33 53 48.2	80 29 09.2	8,445
Road crossing.....	33 53 43.5	80 29 42.9	2,880

Magnetic declination for east border of quadrangle, 01° 00' 00" W.; for north border, 00° 47' 17" W.; for west border, 00° 33' 19" W.; for south border, 00° 25' 22" W.

## SUMTER QUADRANGLE—Continued.

From south border of quadrangle northeast along Atlantic Coast Line R. R. to Sumter. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
							<i>Feet.</i>
Road crossing.....	33	45	33.1	80	27	01.6	.....
Road crossing.....	33	45	56.5	80	26	50.6	2,640
Road crossing.....	33	46	16.5	80	26	38.6	2,260
Road crossing.....	33	46	58.0	80	26	13.8	4,690
Road crossing.....	33	47	36.4	80	25	50.9	4,331
Road crossing.....	33	48	00.5	80	25	36.5	2,720
Road crossing.....	33	48	28.9	80	25	19.5	3,210
Road crossing.....	33	49	05.1	80	24	57.9	4,090
Private-road crossing.....	33	49	53.6	80	24	28.9	5,480
Road crossing.....	33	50	12.8	80	24	17.4	2,170
Road crossing.....	33	51	21.0	80	23	36.7	7,700
Road crossing.....	33	51	43.6	80	23	23.1	2,550
Road crossing.....	33	52	04.8	80	23	10.4	2,389
Road crossing.....	33	52	18.1	80	23	02.4	1,510
Road crossing.....	33	53	02.2	80	22	36.0	4,980
North end of tangent, angle at; iron bolt with cross in center of track.....	33	53	07.0	80	22	33.1	540
Road crossing.....	33	53	39.8	80	22	06.0	4,027
South end of trestle.....	33	54	01.7	80	21	40.4	3,085
Sumter, Prim. Trav. Sta. No. 47 (previously described).....	33	54	54.86	80	20	24.36	8,360

Magnetic declination for south border of quadrangle, 0° 43' W.

## TALATHA QUADRANGLE.

Along highways near north border of quadrangle. (By B. H. Yoakum in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
							<i>Feet.</i>
Windsor, 0.5 mile northwest of, road fork.....	33	29	10.0	81	30	58.5	.....
Windsor, Prim. Trav. Sta. No. 94 (previously described).....	33	28	48.6	81	30	44.2	2,472

Along Southern Ry. near north border of quadrangle. (By E. L. McNair in 1918.)

Road crossing.....	33	27	59.4	81	30	05.1	3,761
Road crossing, 30 feet southeast of switchstand.....	33	28	28.7	81	30	27.4	3,510
Windsor station, 400 feet southeast of, 20 feet southwest from center of railroad track, in line with rear end and 67 feet from corner of Hallman Bros.' store; iron post stamped "Prim. Trav. Sta. No. 94, 1918 Mac.".....	33	28	48.6	81	30	44.2	2,458
Road crossing.....	33	29	27.4	81	31	26.5	5,310

Along highways near west border of quadrangle. (By B. H. Yoakum in 1918.)

Road forks.....	33	28	57.6	81	41	44.2	.....
Road forks.....	33	27	53.9	81	41	43.0	6,435
T road west.....	33	26	39.2	81	41	12.0	7,985
Crossroads.....	33	26	11.2	81	41	10.3	2,836
T road west.....	33	25	13.9	81	41	30.4	6,038
Road forks.....	33	24	19.6	81	41	08.7	5,781
Talatha, 1 mile southeast of, at A. T. Johnson's store, 20 feet south and 15 feet east of crossroads; iron post stamped "Prim. Trav. Sta. No. 15, 1918 Y".....	33	23	30.2	81	41	06.6	4,993
Crossroads.....	33	22	38.3	81	41	05.9	5,240
Crossroads.....	33	21	45.9	81	41	07.7	5,294
Holley's store, center of road in front of.....	33	20	42.5	81	41	32.4	6,745
Hawthorn post office, 900 feet northwest of, crossroads.....	33	19	51.4	81	41	54.4	5,491
Center of road, in front of cotton gin.....	33	19	12.7	81	42	40.1	5,500
Center of small bridge.....	33	19	00.5	81	42	52.1	1,600
Private-road forks.....	33	18	04.3	81	43	37.7	6,868
Private T road.....	33	17	11.8	81	43	46.4	.....
Road forks.....	33	16	08.5	81	44	33.5	7,540
T road west.....	33	15	32.9	81	44	43.1	3,684

**TALATHA QUADRANGLE—Continued.**  
**Along highway through center of quadrangle.**

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Talatha post office, 50 feet southwest of, crossroads.....	33 23 43.6	81 42 15.9	.....
Private crossroads.....	33 23 36.0	81 43 45.2	7,604
Crossroads.....	33 23 44.3	81 44 43.9	5,016
T road north.....	33 19 51.2	81 31 48.6	.....
Road forks.....	33 19 26.4	81 32 47.8	5,612
Crossroads.....	33 19 29.3	81 34 03.2	6,391
T road north.....	33 19 45.6	81 34 59.2	5,021
Mossy School, road forks southwest at.....	33 20 09.5	81 36 18.9	7,167
Mossy School, 1.3 miles northwest of, 0.7 mile east of Tyler's bridge, 50 feet southeast of crossroads; iron post stamped "Prim. Trav. Sta. No. 20, 1918 Y".....	33 20 56.7	81 37 11.4	6,519
Crossroads.....	33 21 19.4	81 38 54.3	9,012
Road forks.....	33 21 27.0	81 39 48.0	4,613

**Along highways near south border of quadrangle.**

Private T road.....	33 17 17.2	81 42 07.6	.....
Crossroads.....	33 16 50.2	81 41 00.1	6,340
T road.....	33 16 59.0	81 39 25.9	8,044
Crossroads.....	33 17 05.6	81 38 11.4	6,362
Dunbarton, 7 miles northwest of, at old Greenland post office, on north side of road, opposite southeast corner of store; iron post stamped "Prim. Trav. Sta. No. 17, 1918 Y".....	33 17 02.4	81 37 10.5	5,176
West Fork of T road north.....	33 17 03.1	81 36 14.9	4,720
T road south.....	33 16 42.9	81 35 30.0	4,324
Crossroads.....	33 16 12.7	81 34 24.4	6,345
T road north.....	33 16 01.4	81 33 19.2	5,648
Center of bridge over Joyce's Branch.....	33 15 54.1	81 32 26.2	4,553
Tramroad crossing.....	33 15 38.3	81 31 16.3	6,144
Road forks.....	33 15 17.0	81 30 19.8	5,254

**Along highways near east border of quadrangle.**

Garley's Mill, 1 mile east of, at residence of George Green, 22 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 18, 1918 Y".....	33 18 04.2	81 30 11.0	.....
Tramroad crossing.....	33 18 17.2	81 30 52.8	3,782
T road west.....	33 19 53.3	81 30 09.8	.....

**Near Windsor. (By G. T. Hawkins in 1918.)**

Windsor, Prim. Trav. Sta. No. 94, 1917 Mac. (previously described).....	33 28 48.6	81 30 44.2	.....
Farm-road crossing, at mail box.....	33 29 42.1	81 30 50.6	5,430

Magnetic declination for west border of quadrangle, 0° 30' E.; for south border, 0° 27' E.; for east border, 0° 34' E.; for center, 0° 24' E.

**TIMMONSVILLE QUADRANGLE.**

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

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Feet.
Crossroads, 200 feet west of mail box.....	34 00 06.8	79 57 14.5	.....
Hudson Bridge, crossroads 1 mile south of.....	34 00 35.1	79 57 08.0	2,914
Center of bridge.....	34 00 16.1	79 56 38.7	3,124
Alcolu R. R., crossing on.....	34 00 32.4	79 52 16.3	.....
Jones crossroads, 40 feet northwest of crossing; iron post stamped "Prim. Trav. Sta. No. 42".....	34 01 04.9	79 50 48.2	4,043
Road fork southwest.....	34 00 30.8	79 49 47.1	6,192
T road west.....	34 00 19.0	79 48 45.1	5,351
Lynch River, south end of bridge over.....	34 00 04.3	79 48 37.3	1,631
Crossroads.....	34 00 12.9	79 46 29.1	.....
Syrup mill, road fork at.....	34 00 40.6	79 46 09.5	3,243
Newhope, center of road crossing on Atlantic Coast Line R. R.; nail in tie.....	34 01 03.4	79 45 02.5	6,094
Road crossing.....	34 00 25.2	79 45 00.1	3,860

Magnetic declination for south border of quadrangle, 1° 20' W.

## TRIO QUADRANGLE.

Southwest along Seaboard Air Line Ry. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fect.</i>
Second-class road crossing.....	33	28	50.1	79	41	47.8	6,458
Crossing of unused road.....	33	28	31.9	79	40	31.8	6,695
Road crossing.....	33	28	14.8	79	39	20.4	6,285
Public-road crossing.....	33	27	57.7	79	38	08.9	6,300
Second-class road crossing.....	33	27	45.3	79	37	17.0	4,750
Second-class road crossing.....	33	27	34.4	79	36	31.5	4,015
Milepost 19.....	33	27	24.0	79	35	48.2	3,815
West Andrews, road crossing.....	33	27	09.9	79	34	49.6	5,165
Milepost 17, street crossing.....	33	26	55.0	79	33	47.9	5,435
Andrews station, intersection of two lines of the Seaboard Air Line Ry.....	33	26	49.1	79	33	23.3	2,168
Andrews station, 420 feet north of intersection of railroads at, 30 feet west of center of Seaboard Air Line Ry. track, 10 feet southwest of sidewalk, 8 feet west of telephone pole; iron post stamped "Prim. Trav. Sta. No. 23, 1917 Mac." Azimuth to railroad water tank, 319° 24'; to church steeple, 153° 15'.....	33	26	53.3	79	33	23.0	420
Road crossing.....	33	26	35.8	79	33	25.6	1,778
Road crossing.....	33	26	03.2	79	33	53.7	4,075
Public-road crossing.....	33	24	51.1	79	34	55.7	8,980
Milepost 116.....	33	23	39.1	79	35	57.6	8,970
Switch stand at turnout.....	33	23	03.7	79	36	28.2	4,415
Milepost 118.....	33	22	14.4	79	37	10.5	6,145
Oceda flag station, road crossing at.....	33	21	04.2	79	38	10.8	8,745
Oceda flag station, 180 feet south of road crossing at, 25 feet west of center of track, on bank, 3 feet east of telephone pole; iron post stamped "Prim. Trav. Sta. No. 24, 1917 Mac." Azimuth of railroad tangent, 35° 45'.....	33	21	02.9	79	38	12.2	177
South end of trestle.....	33	20	38.7	79	38	32.6	3,000
Milepost 121.....	33	20	07.1	79	38	59.8	3,940
Milepost 122.....	33	19	24.7	79	39	36.2	5,280
Santee River bridge, south end of trestle approach to.....	33	18	59.2	79	39	58.1	3,170
Santee River, center of swing span, over.....	33	18	16.0	79	40	35.1	5,375
Second-class road crossing.....	33	17	36.9	79	41	08.7	4,875
Jamestown flag station, about 100 feet west and 55 feet south of road crossing at, 50 feet northwest of center of track, at edge of right of way; iron post stamped "Prim. Trav. Sta. No. 25, 1917 Mac." Azimuth of railroad tangent, 35° 45'.....	33	17	07.56	79	41	34.6	3,691
Switch block at turnout, on railroad of Atlantic Coast Line Corp. (Lumber company.).....	33	16	15.7	79	42	18.4	6,423

## Southeast along railroad.

Second-class road crossing, near brick yard.....	33	29	28.6	79	44	29.2	.....
Opposite milepost Geo. 27.....	33	29	19.0	79	43	49.2	3,520
Trio station, directly opposite office window of and across railway from, 30 feet south of center of track, just outside line of telephone poles; iron post stamped "Prim. Trav. Sta. No. 22, 1917 Mac." Azimuth of railroad tangent, 285° 53'.....	33	29	07.3	79	43	01.2	4,233

## West and north along highways through center of quadrangle. (By Oscar Jones in 1917.)

Summers Creek, center of bridge over.....	33	21	18.5	79	30	08.3	.....
Center of road, opposite house and gate.....	33	20	54.6	79	31	23.1	6,789
Center of road, opposite W. P. Blake's mail box.....	33	20	54.1	79	31	46.3	1,970
Center of road, opposite house and gate.....	33	20	49.8	79	32	22.6	3,109
Crossroad north.....	33	20	23.0	79	33	08.1	4,719
Road fork.....	33	19	59.2	79	33	48.8	4,210
Crossroad north.....	33	19	45.8	79	34	10.6	2,290
Road fork of Santee River road.....	33	19	34.1	79	34	30.6	2,072
Center of bridge over ditch.....	33	19	44.4	79	35	35.4	5,594
Road fork.....	33	19	47.7	79	35	56.3	1,805
Road fork.....	33	20	03.5	79	36	26.8	3,037
Road fork.....	33	20	27.3	79	37	00.7	3,759
Road fork.....	33	20	44.7	79	37	29.2	2,986
Oceda, road crossing at, center of track.....	33	21	04.2	79	38	10.8	4,040
Side shot to Prim. Trav. Sta. No. 24, Mac.....	33	21	02.9	79	38	12.2	(180)
Road fork, county-line road at Cedar Creek Church.....	33	21	37.5	79	39	12.1	6,199
Road forks.....	33	21	26.4	79	40	24.2	6,220
Road forks.....	33	21	24.5	79	41	04.1	3,390
Road fork to Leuneuds Ferry.....	33	21	28.7	79	41	59.6	4,722
Road fork.....	33	21	45.8	79	42	22.0	2,568
Road fork through gate.....	33	22	13.4	79	43	03.5	4,490

## TRIO QUADRANGLE—Continued.

West and north along highways through center of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Center of bridge over creek.....	33	22	25.3	79	43	14.2	1,510
Center of bridge over creek.....	33	23	02.1	79	43	38.9	4,274
Center of bridge over creek.....	33	23	30.0	79	44	17.1	4,292
Crossroad north, near E. L. Garrison's mail box, 1 mile west of Sutton post office.....	33	24	05.0	79	45	31.9	7,262
Center of road, opposite schoolhouse.....	33	24	33.0	79	45	16.7	3,110
Road fork.....	33	25	09.6	79	44	57.0	4,059
Road fork.....	33	25	31.7	79	44	55.7	2,235
Road fork.....	33	26	36.7	79	44	50.0	6,588
Road fork.....	33	26	57.4	79	44	48.0	2,095
Crossroads.....	33	27	48.1	79	45	04.3	5,309
Center of road, opposite tree marked "U. S.".....	33	28	17.2	79	44	17.9	4,906
Crossroad north.....	33	28	31.4	79	43	40.0	3,520
Trio station, Prim. Trav. Sta. No. 22 (previously described)....	33	29	07.3	79	43	01.2	4,902

## Northwest along Seaboard Air Line Ry.

Road crossing.....	33	26	01.1	79	30	04.7	.....
Road crossing.....	33	26	16.3	79	31	07.3	5,520
Center of track, opposite milepost 15.....	33	26	25.9	79	31	47.1	3,510
Point of switch.....	33	26	31.3	79	32	09.2	1,950
Track opposite milepost 16.....	33	26	40.6	79	32	47.7	3,390
Andrews station (junction with McNair's line).....	33	26	49.2	79	33	23.3	3,140

## Southeast along highways in southwest corner of quadrangle. (By Oscar Jones in 1917.)

Jamestown, "Prim. Trav. Sta. No. 25 Mac.".....	33	17	07.6	79	41	34.6	.....
Road fork.....	33	16	56.1	79	40	53.9	3,649
Center of road, opposite house and two mail boxes.....	33	16	10.8	79	40	09.8	5,911
Crossroads.....	33	16	01.0	79	39	53.0	1,737
Road fork at church and schoolhouse.....	33	15	41.7	79	39	31.4	2,668
Center of bridge over creek.....	33	15	38.0	79	39	28.8	441
Center of road, opposite stone house.....	33	15	12.2	79	38	49.5	4,234

Magnetic declination for southwest part of quadrangle, 1° 00' W.

## From north border of quadrangle south along highways. (By Oscar Jones in 1918.)

Center of bridge.....	33	29	48.9	79	32	14.0	.....
Road fork, road to Warsaw at.....	32	29	38.3	79	32	30.0	1,725
Potato Ferry, north end of bridge over Black River.....	33	29	13.7	79	32	40.4	2,643
Seaboard Air Line Ry. crossing.....	33	28	42.9	79	33	11.1	4,059
South end of trestle.....	33	28	21.5	79	33	13.2	2,172
Center of trestle.....	33	27	57.4	79	33	15.8	2,438
Road crossing.....	33	27	08.0	79	33	20.9	5,021
Andrews, railroad crossing.....	33	26	49.2	79	33	23.3	1,912
Andrews, iron post stamped "Prim. Trav. Sta. No. 23, 1917 Mac.".....	33	26	53.3	79	33	23.0	420

Magnetic declination for north border of quadrangle, 1° 55' W.

## South along highways.

Schoolhouse, road fork at.....	33	29	24.5	79	42	50.1	.....
Trio station, Prim. Trav. Sta. No. 22 (previously described)....	33	29	07.3	79	43	01.2	1,973

## VARNVILLE QUADRANGLE.

Northwest along Charleston &amp; Western Carolina Ry. (By E. L. McNair in 1917.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fect.
Road crossing.....	32 47 40.0	81 00 00.5	.....
Road crossing.....	32 48 05.7	81 00 37.5	4,090
Second-class road crossing.....	32 48 23.8	81 01 03.5	2,875
Milepost 74.....	32 48 41.5	81 01 28.9	2,810
Public-road crossing.....	32 49 02.9	81 01 59.7	3,400
Milepost 73.....	32 49 18.0	81 02 21.4	2,405
Road crossing.....	32 49 48.2	81 03 04.8	4,790
Road crossing.....	32 50 37.4	81 04 15.7	7,835
Varnville station, public-street crossing.....	32 51 00.6	81 04 49.0	3,685
Road crossing.....	32 51 09.6	81 05 01.9	1,425
Road crossing.....	32 51 34.5	81 05 37.8	3,960
Hampton station, about 900 feet northwest of, 40 feet southwest of Charleston & Western Carolina Ry. track, 60 feet west of road crossing, in line with fence on northwest side of street; iron post stamped "Prim Trav. Sta. No. 75, 1917 Mac." Azimuth to left corner of brick public-school building, about 1,000 feet distant, 99° 20' 15".....	32 52 08.2	81 06 27.1	5,414
Public-road crossing.....	32 52 30.1	81 06 57.9	3,430
Public-road crossing.....	32 52 46.9	81 07 22.2	2,685
Road crossing.....	32 53 31.3	81 08 26.1	7,050
Road crossing.....	32 53 51.2	81 08 54.8	3,175
Road crossing.....	32 54 23.7	81 09 41.6	5,160
Road crossing.....	32 55 06.5	81 10 43.3	6,815
Brunson station, about 100 feet north of street crossing.....	32 55 31.3	81 11 19.1	3,945
Second-class road crossing.....	32 56 04.5	81 12 07.0	5,290
Second-class road crossing.....	32 56 30.9	81 12 45.0	4,190
Road crossing.....	32 57 16.2	81 13 50.5	7,220
Fairfax station, 150 feet south of, 32 feet west, and 6 feet south of crossing of Charleston & Western Carolina Ry. with Seaboard Air Line Ry.; iron post stamped "Prim. Trav. Sta. No. 76, 1917, Mac." Azimuth to outlet pipe of Standard Oil Co's. tank, 570 feet distant, 298° 48' 15", sighted below letters "IA".....	32 57 31.7	81 14 13.3	2,498
Public-road crossing.....	32 57 59.1	81 14 52.4	4,324

## South along Seaboard Air Line Ry.

Fairfax station, iron post No. 76 near crossing of Seaboard Air Line and Charleston & Western Carolina railroads (described above).....	32 57 31.7	81 14 13.3	.....
Road crossing.....	32 57 07.4	81 14 13.5	2,460
Road crossing.....	32 56 24.7	81 14 14.4	4,320
Public-road crossing, near sawmill.....	32 55 15.1	81 14 15.8	7,035
Creek, road crossing, another channel about 120 feet south.....	32 54 25.8	81 14 16.9	4,985
Public-road crossing.....	32 53 51.2	81 14 17.7	3,495
Milepost 198.....	32 52 56.4	81 14 18.9	5,535
Road crossing.....	32 52 13.8	81 14 19.9	4,315
Gifford station, about 190 feet south of, 105 feet north of main public-road crossing, 25 feet west of center of track; iron post stamped "Prim. Trav. Sta. No. 77, 1917, Mac.".....	32 51 33.5	81 14 21.1	4,074
Milepost 196.....	32 51 11.9	81 14 21.3	2,175
Milepost 195.....	32 50 19.7	81 14 22.6	5,280
Second-class road crossing.....	32 49 39.4	81 14 23.6	4,080
Road crossing.....	32 49 02.9	81 14 24.5	3,690
Luray station, 400 feet south of road crossing.....	32 48 46.6	81 14 24.9	1,645
Road crossing.....	32 48 08.6	81 14 25.9	3,840
Railroad crossing, Southern Ry. and Seaboard Air Line Ry.....	32 46 57.8	81 14 27.7	7,155
Road crossing.....	32 45 49.4	81 14 29.3	6,915
Estill station, directly opposite and across track from, 40 feet east of center track, 170 feet south of city water tower, in open park grounds; iron post stamped "Prim. Trav. Sta. No. 78, 1917 Mac." Azimuth to metal fixture on top of Mrs. Marvin O'Neal's house, 118° 58' 30".....	32 45 16.1	81 14 29.6	3,363

Only two observations for magnetic declination, 0° 0.2' E. and 0° 0.1' W.

From Hampton northeast along Hampton &amp; Branchville R. R. to Moselle. (By H. S. Senseney in 1917-18.)

Hampton, Prim. Trav. Sta. 75 (previously described).....	32 52 08.2	81 06 27.1	.....
Road crossing, 1,665 feet northeast of milepost 1.....	32 52 58.6	81 05 58.5	5,649
Road crossing.....	32 53 46.0	81 05 18.3	5,885
Crocketville, road crossing at station.....	32 54 47.7	81 04 25.6	7,695
Road crossing.....	32 55 03.0	81 04 12.1	1,920



## VARNVILLE QUADRANGLE—Continued.

From Hampton northeast along Hampton &amp; Branchville R. R. to Moselle—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fect.
Milepost 5.....	32 55 34.3	81 03 44.4	3,950
Old road crossing, gate east.....	32 55 54.1	81 03 26.4	2,527
Road crossing.....	32 56 28.2	81 02 33.1	5,700
Miley, road crossing at.....	32 56 51.9	81 01 56.3	3,950
Moselle, road crossing at.....	32 57 57.3	81 00 46.6	8,891
Moselle, 65 feet south of railroad crossing; iron post stamped "Prim. Trav. Sta. No. 1 S., 1917." Azimuth to center of chimney of J. S. Saunders's store, 319° 30' 20".....	32 57 56.7	81 00 46.6	67

## Along highways near east border of quadrangle.

Crossroads.....	32 53 53.9	81 00 16.1	.....
Road fork.....	32 48 11.2	81 00 31.1	.....
Railroad crossing, near milepost 75.....	32 48 05.7	81 00 37.5	780

## Southwest along highways in southeast corner of quadrangle.

Crossroads.....	32 46 24.7	81 00 08.7	.....
Road forks.....	32 46 12.0	81 00 23.2	1,790
Crossroads.....	32 46 09.0	81 00 35.5	1,092
East end of bridge at Lowndes Lake.....	32 45 38.9	81 01 14.2	4,491
Lane through gate.....	32 45 17.9	81 01 53.9	3,999
Road through gate.....	32 45 00.8	81 02 19.1	2,762

Magnetic declination through south border of quadrangle, 0.1° E.

## Northwest along highways in southwest corner of quadrangle.

T road north.....	32 45 05.8	81 12 05.6	.....
Crossroad.....	32 45 10.1	81 12 37.7	2,777
Lena, railroad crossing at depot, center of west track.....	32 45 12.0	81 12 53.4	1,355
Estill, at east end of road forks.....	32 45 17.5	81 13 54.8	5,276
Estill station, Prim. Trav. Sta. No. 28 (previously described)...	33 45 16.1	81 14 29.6	2,972

## Northwest along highways in northeast corner of quadrangle. (By H. S. Senseney in 1918.)

Road forks.....	32 59 26.3	81 00 16.1	.....
Road forks, at blazed pine tree.....	32 59 27.7	81 00 35.9	1,695
Crossroads.....	32 59 38.8	81 01 13.2	3,365

Magnetic declination for quadrangle, 0.2° E.

## West along highways near north border of quadrangle. (By H. S. Senseney in 1917-18.)

Moselle station, road crossing at.....	32 57 57.3	81 00 46.6	.....
T road east.....	32 58 35.8	81 01 11.7	4,433
T road east.....	32 59 00.6	81 01 15.0	2,526
Road forks.....	32 59 18.9	81 01 03.9	2,077
Crossroads.....	32 59 38.8	81 01 13.2	2,162
Second-class crossroad.....	32 59 44.5	81 02 15.8	5,370
T road north, at mail box.....	32 59 51.8	81 03 03.0	4,084
Broxton, west end of most westerly of several bridges.....	32 59 37.8	81 03 26.5	2,456
Road forks.....	32 59 34.2	81 03 51.3	2,139
Road forks, in front of negro house.....	32 59 34.7	81 04 01.2	850
T road east.....	32 59 18.9	81 04 29.9	2,921
Road forks.....	32 58 35.8	81 04 53.6	4,802
Crossroads.....	32 58 32.4	81 05 37.7	3,768
Road fork.....	32 58 30.9	81 05 51.2	1,164
Crossroads.....	32 58 24.2	81 06 31.4	3,492
Hickory Grove Church, road fork at railroad crossing 250 feet southeast of.....	32 58 41.2	81 06 38.6	1,820
Hickory Grove Church, 0.75 mile north of, 20 feet south by 15 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 4 S, 1918".....	32 59 12.6	81 06 58.9	3,615
Road fork.....	32 59 03.6	81 07 06.8	1,127
T road north.....	32 59 03.9	81 08 04.5	4,914
T road north at store.....	32 59 06.4	81 08 18.4	1,206

## VARNVILLE QUADRANGLE—Continued.

West along highways near north border of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Jackson Branch, north end of bridge over.....	32	58	35.8	81	09	17.5	5,913
Crossroads.....	32	58	14.2	81	09	26.5	2,313
Hampton and Barnwell county line, fence line north at.....	32	58	36.1	81	10	33.4	6,116
Crossroads.....	32	58	45.5	81	10	53.4	1,956
Road fork.....	32	59	35.6	81	11	54.9	7,283
Crossroads.....	32	59	54.2	81	12	05.8	2,093

## North along Seaboard Air Line Ry. (By E. L. McNair in 1917-18.)

Fairfax, Prim. Trav. Sta. 76 (previously described).....	32	57	31.7	81	14	13.3	.....
Road crossing.....	32	57	59.7	81	14	12.4	2,823
Intersection of two long railroad tangents at angle of 10°.....	32	58	25.6	81	14	11.8	2,620
Milepost 205.....	32	59	01.4	81	14	03.5	3,685
Public-road crossing.....	32	59	49.1	81	13	52.6	4,910

## By H. S. Senseney in 1918.

Crossroads.....	32	52	02.4	81	14	54.9	.....
Gifford, Prim. Trav. Sta. No. 77, 1917 Mac.....	32	51	33.4	81	14	21.1	4,108

## WADMELAW ISLAND QUADRANGLE (northeast quarter is Legareville 7½ quadrangle; southeast quarter is Kiawah Island 7½ quadrangle).

Spur line along Atlantic Coast Line R. R. south to Yorges Island. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Ravenel station, 65 feet N. 80° W. from northwest corner of station platform, 70 feet north of center of main track, 70 feet north and 50 feet west of public-road crossing; iron post stamped "Prim. Trav. Sta. No. 12, 1917 Mac." Azimuth of long railroad tangent west, 82° 36' 30".....	32	45	52.6	80	14	25.8	.....
Second-class road crossing.....	32	44	51.3	80	14	36.1	6,255
Public-road crossing.....	32	44	03.6	80	14	30.1	4,850
Road crossing.....	32	43	41.4	80	14	27.3	2,250
Crossing of Seaboard Air Line Ry.....	32	43	24.4	80	14	25.2	1,729
Road crossing at Meggett station.....	32	43	04.9	80	14	22.8	1,986
Second-class road crossing.....	32	42	18.4	80	14	02.8	4,993
Road crossing.....	32	41	38.7	80	13	37.2	4,577
Yorges Island post office, 100 feet south and 50 feet east of, 15 feet north of center of roadway, 60 feet west of main track of railroad, about 150 feet northwest of Yorges Island station; iron post stamped "Prim. Trav. Sta. No. 13, 1917 Mac.".....	32	41	23.6	80	13	27.2	1,743

## On Edisto Island. (By E. L. McNair in 1917.)

East Base, Edisto Island, about one-half mile east of Mrs. F. W. Johnstone's residence, in open field; stone 20 inches square at base and 3½ feet high, marked: "Latitude 32° 33' 15.425" Longitude 80° 13' 33.993" A. D. Bache Supt. 1849".....	32	33	15.42	80	13	33.99	.....
Edisto Island, cupola on residence of Mrs. F. W. Johnstone.....	32	33	08.2	80	14	02.2	2,520
Gateway on road to Johnstone house.....	32	32	53.5	80	14	40.8	3,534

## Along Seaboard Air Line Ry. across northwest corner of quadrangle.

Public-road crossing.....	32	43	15.3	80	14	52.0	.....
Meggetts, near station, crossing of Atlantic Coast Line and Seaboard Air Line railroads (junction with previous traverse line).....	32	43	24.4	80	14	25.2	2,475
Public-road crossing.....	32	43	50.6	80	13	07.7	7,129
Road crossing.....	32	44	05.8	80	12	22.6	4,150
Public-road crossing.....	32	44	21.1	80	11	37.2	4,475
Public-road crossing.....	32	44	41.7	80	10	36.4	5,595
Wide Awake spur, road crossing at.....	32	44	55.7	80	09	55.0	3,811

Magnetic declination near southwest corner of quadrangle, 0.7° W.; near north border, 1.0° W.

## WADMELAW ISLAND QUADRANGLE—Continued.

South along highways through center of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Opposite milepost C 16.....	32	44	15.2	80	06	21.8	.....
Road forks.....	32	43	34.1	80	05	57.1	4,642
Crossroads.....	32	43	18.1	80	05	10.8	3,788
Crossroads, midway between mail box and large oak tree.....	32	43	00.8	80	05	10.8	1,750
Forks of road.....	32	42	07.8	80	06	31.6	8,738
Road forks, left to Rockville, right to Martins Point.....	32	42	02.6	80	07	24.3	4,535
Angle in road, on center line both ways.....	32	42	09.4	80	08	09.9	3,959
Angle in road, on center line both ways.....	32	42	12.7	80	08	55.9	3,940
Crossing of log tramway, wooden rails.....	32	41	56.1	80	09	23.7	2,910
Crossroads.....	32	41	37.6	80	10	09.8	4,364
T road corners, near church.....	32	40	50.0	80	09	46.4	5,208
Forks of road, 10 feet north and 3 feet east of signboard.....	32	40	15.3	80	09	48.4	3,510
Rockville, 4 miles north of, on east side of road, near milestone R 4, Chn 25; iron post stamped "Prim Trav. Sta. No. 50, 1917 Mac".....	32	39	31.7	80	10	16.3	5,008
Milestone C 26, R 3.....	32	38	46.1	80	10	43.0	5,144
Second-class crossroads.....	32	38	23.3	80	11	03.1	2,875
Milepost C 27, R 2.....	32	38	03.9	80	11	19.6	2,410
Milepost C 28, R 1.....	32	37	14.2	80	11	21.8	5,032
Forks of road.....	32	36	40.7	80	11	44.8	3,910
Rockville Presbyterian Church, supposed to be directly under steeple which blew down in 1893; surface mark is 5½-inch tile, inside of which is a standard Coast Survey tablet marked "Triang. Sta. etc." set in cement.....	32	35	58.79	80	11	43.60	4,241

## Unchecked spur line south near east border of quadrangle.

Crossroads midway between mail box and large oak tree.....	32	43	00.8	80	05	10.8	.....
Forks of road.....	32	42	53.5	80	04	29.6	3,601
T road west.....	32	42	29.8	80	04	08.2	3,014
Crossroads.....	32	41	32.7	80	04	18.8	5,839
Forks of road.....	32	41	15.5	80	04	22.1	1,759
Forks of road at "Hum Spun" Corners.....	32	40	29.4	80	03	01.1	8,343
T road south.....	32	39	39.7	80	03	43.8	6,210
Second-class T road south.....	32	39	32.8	80	04	43.2	5,131
Mullet Hall, 4 miles northeast of, 0.6 mile west of M. Barshay's store, 10 feet north of and opposite large live-oak tree; iron post stamped "Prim. Trav. Sta. No. 51, 1917 Mac".....	32	39	30.1	80	04	57.8	1,270

## Southwest along highways in southwest corner of quadrangle. (By E. L. McNair in 1917.)

Iron bench mark 51 (previously described).....	32	39	30.1	80	04	57.8	.....
T road south.....	32	39	16.8	80	05	45.4	4,288
Second-class T road south.....	32	39	09.8	80	06	20.4	3,074
Forks of road, in line with road south and road N. 70° E.....	32	38	47.2	80	07	20.3	5,615
Forks of road.....	32	39	00.4	80	08	05.5	4,084
Second-class crossroad.....	32	38	37.2	80	08	23.1	2,791
Second-class crossroad.....	32	38	25.3	80	08	34.4	1,543
Second-class crossroad.....	32	37	54.5	80	08	58.2	3,719
Center of bridge across marsh, near W. M. Andell's store and cot- ton gin.....	32	36	31.1	80	09	02.0	8,440
Gateway where road enters wood and turns square to right.....	32	35	10.4	80	09	36.6	8,677
Center of bridge over tidewater stream.....	32	34	46.1	80	09	47.4	2,623
Seabrook No. 2 triangulation station of the U. S. Coast and Geo- detic Survey, on northeast side of mouth of North Edisto River on beach of Seabrook Island, about 800 feet easterly from new clubhouse; concrete post with U. S. Coast and Geo- detic Survey tablet.....	32	33	48.61	80	10	37.69	7,234

## Along highways.

Road forks, at "Hum Spun" Corners.....	32	40	29.4	80	03	01.1	.....
Second-class crossroad.....	32	40	35.3	80	02	37.7	2,134
Brick-arch culvert over stream.....	32	40	52.1	80	01	45.7	4,712
Forks of road, private road east between two trees.....	32	41	33.0	80	00	58.8	5,762
T road east.....	32	41	50.4	80	00	53.9	1,804
Forks of road.....	32	42	41.5	80	01	06.0	5,263
Crossroads.....	32	43	07.0	80	01	17.9	2,769
Second-class crossroads.....	32	43	55.1	80	01	46.7	5,439
Second-class crossroads.....	32	44	19.5	80	02	05.7	2,951
Forks of road.....	32	44	47.8	80	02	27.3	3,404

Magnetic declination for southwest part of quadrangle, 0.6° W.; for northeast part, 1.2° W.

## WALTERBORO QUADRANGLE.

Northwest along Atlantic Coast Line R. R. near center of quadrangle to Stokes, thence northeast along highway to north border of quadrangle. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Farm-road crossing.....	32	45	01.0	80	37	11.9	
Public-road crossing.....	32	45	30.4	80	37	20.4	3,060
Public-road crossing.....	32	46	26.3	80	37	36.6	5,810
Ritter, intersection of Atlantic Coast Line R. R. and Savannah Lumber Co.'s railroad.....	32	47	19.0	80	37	51.9	5,483
Ritter, public-road crossing.....	32	47	20.2	80	37	52.3	126
Road crossing.....	32	48	21.5	80	38	10.2	6,380
Road crossing.....	32	49	04.2	80	38	22.8	4,445
Drawdy flag station, at road crossing.....	32	49	59.6	80	38	39.2	5,780
Road crossing.....	32	51	01.9	80	38	51.9	6,495
Center of track, in line with road east.....	32	51	25.2	80	39	04.8	2,425
Road crossing.....	32	51	55.2	80	39	13.0	3,116
Milepost 10.....	32	52	15.3	80	39	18.2	2,075
Road crossing.....	32	52	45.6	80	39	26.1	3,130
Walterboro station, 500 feet north of, 50 feet south of milepost 12, 15 feet northeast of center of track, near gateway of track entrance to cotton factory, 15 inches from fence line; iron post stamped "Prim. Trav. Sta. No. 11, 1917 Mac." Azimuth to semaphore post at railroad station, 313° 29' 30".....	32	53	53.3	80	39	52.5	7,209
Road crossing.....	32	54	48.0	80	40	34.9	6,607
Road crossing.....	32	55	21.0	80	41	09.5	4,450
Road crossing.....	32	55	53.8	80	41	34.7	3,945
Milepost 16.....	32	56	29.5	80	42	06.8	4,533
Road crossing.....	32	56	36.8	80	42	30.1	2,114
Stokes station, 130 feet N. 15° W. from northeast corner of, 35 feet northeast of center of track, in line with fence, on east side of road going north; iron post stamped "Prim. Trav. Sta. No. 9, 1917 Mac".....	32	57	35.2	80	43	33.5	8,005
Crossroads.....	32	58	12.5	80	43	13.3	4,146
Forks of road.....	32	58	32.0	80	42	42.6	3,269
Forks of road.....	32	59	28.2	80	42	28.5	5,809
Center of bridge over small stream.....	32	59	35.6	80	42	01.2	2,435

Magnetic declination near northwest corner of quadrangle, 0° 20' E.

## Along highways near west border of quadrangle.

Hendersonville Public School building, northwest corner of, 2 feet from brick foundation, 138 feet north of forks of road at McMillan's store, iron post stamped "Prim. Trav. Sta. No. 38, 1917 Mac".....	32	47	49.4	80	44	00.4	.....
McMillan's store, road forks about 330 feet northwest of.....	32	47	50.4	80	44	02.6	220
T road south.....	32	48	32.3	80	43	52.5	4,320
T lane in road north leading through gate.....	32	48	31.7	80	43	24.7	2,375
Stake at right-angle turn in road, marked "XIII".....	32	49	22.8	80	43	06.9	5,385
Road forks.....	32	50	14.6	80	42	59.7	5,276
Road forks.....	32	50	33.0	80	43	00.9	1,862
Center of roads northeast and southwest, opposite mail boxes and near road fork.....	32	50	12.6	80	43	25.4	2,949
T road south.....	32	50	21.7	80	44	17.6	4,547
Road forks.....	32	50	22.3	80	44	47.6	2,562

Magnetic declination near southwest corner of quadrangle, 0° 07' E.

Road forks, second-class west.....	32	51	58.0	80	44	31.5	.....
Second-class crossroad.....	32	52	39.3	80	44	30.1	4,180
Road forks.....	32	53	00.0	80	44	34.1	2,115
Angle in road, at angle in line of rail fence.....	32	53	52.3	80	44	03.2	5,910
Forks of road, separation of wagon tracks.....	32	54	39.2	80	44	19.7	4,949
Crossroads, 380 feet northwest of crossing of log tramway.....	32	55	15.5	80	44	36.6	3,940
Road forks.....	32	55	32.7	80	44	29.6	1,838
Road forks.....	32	56	05.6	80	44	07.7	3,814
Road forks, about 600 feet northeast of church.....	32	56	19.1	80	43	52.8	1,866
T road.....	32	56	21.6	80	43	40.4	1,086
Stokes, "Prim. Trav. Sta. No. 9, 1917 Mac." (previously described).....	32	57	35.2	80	43	33.5	7,465

## Along east border of quadrangle.

Angle in road.....	32	55	27.4	80	30	17.6	.....
T road west.....	32	54	51.4	80	30	03.2	3,848

Magnetic declination near northwest corner of quadrangle, 0° 20' E.

## WALTERBORO QUADRANGLE—Continued.

Southeast along highway in northeast part of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Crossroads at Sidney precinct.....	32	59	57.9	80	34	06.6	.....
Private T road southwest to house.....	32	59	22.2	80	33	13.9	5,763
Round post office, 3 miles north of, at Rikenbaker's place, 30 feet east of center of road, 30 feet west of corner of house, 10 feet north of corner of fence; iron post stamped "Prim. Trav. Sta. No. 43, 1917 Mac".....	32	58	44.0	80	32	41.3	4,751
T road west.....	32	58	09.0	80	32	39.4	3,539
T road east.....	32	57	45.4	80	32	33.6	2,440
T road east.....	32	56	57.0	80	32	30.5	4,903
T road east to Cottageville.....	32	56	27.4	80	32	29.6	2,997
Centerville (Round post office), T road corners.....	32	56	15.4	80	32	27.3	1,229
Second-class T road west.....	32	55	20.8	80	32	13.5	5,634
Intersection of tangents, at 60° angle in road.....	32	54	42.9	80	31	38.1	4,880
Road forks.....	32	54	27.3	80	31	06.3	3,136
Round post office, 3.15 miles south of, at angle in road, 1,500 feet north of Jacksonboro Road; iron post stamped "Prim. Trav. Sta. No. 42, 1917 Mac".....	32	54	07.4	80	30	50.1	2,445
T road corners, east, west, and north.....	32	53	27.4	80	31	04.9	4,231

Magnetic declination near northeast corner of quadrangle, 0° 05' E.

Along highways east in north part of quadrangle.

Walterboro, Prim. Trav. Sta. No. 11 (previously described)....	32	53	53.3	80	39	52.5	.....
Walterboro, T street corner at Farmers and Merchants Bank..	32	54	14.9	80	39	41.0	2,386
Cross roads.....	32	54	23.8	80	38	38.5	5,403
Forks of road.....	32	55	00.9	80	37	58.3	5,085
Forks of road.....	32	55	09.1	80	37	15.7	3,727
Crossing of log tramway.....	32	55	24.2	80	36	35.0	3,787
Road forks.....	32	55	30.2	80	36	08.0	2,380
T road south at store.....	32	55	44.7	80	34	47.2	7,032
Round post office, T road.....	32	56	15.4	80	32	27.3	12,322
Intersection of tangents, 1,910 feet east along track to road crossing.....	32	58	04.0	80	44	23.5	.....
Road crossing.....	32	57	45.3	80	43	50.1	3,415
Stokes, Prim. Trav. Sta. No. 9 (previously described).....	32	57	35.2	80	43	33.5	1,743

Magnetic declination near center of quadrangle, 0° 31' E.

## WAMPEE QUADRANGLE.

East along highways. (By Oscar Jones in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road fork.....	33	50	21.7	78	44	45.6	.....
Crossroads.....	33	50	46.9	78	44	29.2	2,894
Road fork.....	33	51	03.9	78	44	16.7	2,006
Wampee, 1 mile west of fork of Conway and Little River and Myrtle Beach roads.....	33	51	32.2	78	44	18.4	2,870
Wampee, flood fork at, 300 feet east of store and flowing well....	33	51	41.0	78	43	48.2	2,700
Road fork.....	33	51	06.5	78	42	20.4	8,188
Crossroads.....	33	51	11.2	78	41	56.2	2,087
Road fork.....	33	51	09.9	78	41	11.4	3,787
Road fork.....	33	51	11.2	78	40	27.5	3,699
Road fork near bridge.....	33	51	12.0	78	40	08.1	1,642
Crossroads at old store.....	33	51	25.5	78	39	37.2	2,934
Center of bridge, the south one of two.....	33	51	04.0	78	39	24.0	2,449
Road fork through gate to Honey Grove.....	33	50	55.6	78	39	01.4	2,092
Road fork.....	33	50	53.3	78	38	05.2	4,749
Center of road, opposite church.....	33	50	50.0	78	37	31.9	2,828
Center of road, opposite house.....	33	51	15.1	78	35	48.6	4,660
Shell Bank triangulation station of the U. S. Coast and Geodetic Survey, on a shell mound, in the marsh called Dunn's Sound, near the mainland. A large loaded, conical bombshell was buried about 2 feet deep in the clamshells, cone upward, and over it was placed a live-oak stub. This station is very secure and can be recovered at any time with little trouble....	33	51	18.2	78	35	02.2	3,949

Magnetic declination for east part of quadrangle, 2° W.

## WAMPEE QUADRANGLE—Continued.

East and southeast along highways.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
T road south to house.....	33	55	47.0	78	44	15.6	Feet.
Longs post office, opposite white church, center of road.....	33	56	10.4	78	44	02.2	2,618
Center of bridge over creek.....	33	56	41.1	78	43	53.8	3,186
Road fork at Buck Creek.....	33	57	06.4	78	43	24.4	3,553
Crossroads at store.....	33	57	17.0	78	42	42.9	3,658
Road fork, Conway and Fireway and Wortham Ferry roads.....	33	57	29.6	78	41	37.9	5,619
Road fork.....	33	56	48.9	78	41	05.3	4,947
Road fork.....	33	56	08.8	78	40	51.1	4,224
Wortham Ferry, north landing.....	33	55	27.1	78	40	19.5	4,989
Brookville, crossroads.....	33	54	21.2	78	39	30.8	7,824
Tramroad crossing.....	33	53	53.8	78	39	05.8	3,479
Center of culvert.....	33	53	27.2	78	38	26.7	4,260
Tramroad crossing.....	33	53	04.8	78	37	53.0	3,640
Tramroad crossing.....	33	53	01.3	78	37	19.1	2,876
Little River post office, in schoolhouse yard, 17 feet east of northeast corner of building; iron post stamped "Prim. Trav. Sta. No. 24 J".....	33	52	39.7	78	36	55.5	2,958
Center of bridge.....	33	52	25.5	78	37	14.3	2,144
Center of bridge.....	33	52	06.5	78	37	48.2	3,442
Center of bridge.....	33	51	52.1	78	38	30.7	3,866
Center of road, opposite white church.....	33	51	44.3	78	39	06.1	3,089
Crossroads at old store.....	33	51	25.5	78	39	37.2	3,241

Magnetic declination for southeast part of quadrangle, 2° 11' W.

From center of quadrangle east along highways.

Prim. Trav. Sta. No. 24 (previously described).....	33	52	39.7	78	36	55.5	.....
Crossing of tramroad.....	33	52	42.0	78	36	30.4	2,134
Center of bridge over creek, the west bridge of two.....	33	53	16.8	78	35	36.4	5,746
North Carolina and South Carolina State line.....	33	53	24.9	78	35	13.3	2,115

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

## WARRENVILLE QUADRANGLE.

From Bath northeast along Southern Ry. (By B. H. Yoakum in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Bath station, 1,790 feet west of, crossing of Aiken highway.....	33	30	01.4	81	52	43.0	Feet.
Bath station, opposite semaphore, west rail of main track.....	33	30	17.9	81	52	16.4	2,804
Milepost 67, center of track opposite.....	33	30	48.5	81	51	20.8	5,639
Langley, 400 feet southwest of station site, 100 feet north of post office, 10 feet south of Augusta-Aiken electric railway track, 25 feet east of public-road forks; iron post stamped "Prim. Trav. Sta. No. 1, 1918 Y".....	33	31	04.7	81	50	45.2	3,432
Milepost 65, center of track opposite.....	33	31	51.6	81	49	42.8	7,093
Warrenville, 1 mile southwest of, trestle over Augusta-Aiken electric railway.....	33	32	17.5	81	49	15.8	3,480
Warrenville, 190 feet west of station (stake in McNair's line).....	33	32	57.9	81	48	39.5	5,110
Graniteville, opposite semaphore, center of main line.....	33	33	59.7	81	48	27.2	6,331
Graniteville, 0.6 mile north of, center of road crossing.....	33	34	30.2	81	48	18.3	3,173
Road crossing, 600 feet south of milepost 177.....	33	34	43.0	81	48	23.0	1,358
Rennie siding, center line of track, opposite sign.....	33	35	06.2	81	48	30.8	2,435
Private-road crossing.....	33	36	05.3	81	48	30.1	5,977
Vauluse, 50 feet south of station, 35 feet east of railroad track, on east side of wagon road, 3 feet east of electric-light pole; iron post stamped "Prim. Trav. Sta. No. 2, 1918 Y".....	33	36	48.6	81	48	14.9	4,560
Center of trestle over Horse Creek, 900 feet north of milepost 174.....	33	37	26.0	81	48	32.5	4,070
Center of trestle over Horse Creek, marked "173.5".....	33	37	41.1	81	48	26.0	1,619
Center of trestle marked "172.5," 275 feet south of road crossing.....	33	38	26.5	81	48	36.8	4,678
Milepost 172, center of track opposite.....	33	38	57.4	81	48	34.7	3,131
Milepost 171, center of track opposite (see R-163).....	33	39	43.4	81	48	21.7	4,770
Sunnybrook, oppos to signboard, center line of track.....	33	40	29.5	81	48	40.0	4,910
North end of trestle, opposite signpost 1692, center of track.....	33	40	58.9	81	49	07.8	3,786
Road crossing, 1,300 feet north of milepost 168.....	33	42	16.6	81	49	24.0	7,972
Road crossing, 800 feet south of milepost 167.....	33	42	38.3	81	49	50.5	3,128
Rotalata station, opposite sign, center of track.....	33	43	28.0	81	50	38.4	6,216
Trenton station, 700 feet N. 28° E. of, 80 feet east of Charlotte, Columbia & Augusta line track, 20 feet south of wagon road, in triangle formed by railroad wye; iron post stamped "Prim. Trav. Sta. No. 3, 1918".....	33	44	36.7	81	50	27.0	7,012

## WARRENVILLE QUADRANGLE—Continued.

## Northwest along highways near west border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
Butler (U. S. Coast and Geodetic Survey triangulation station), in North Augusta, on "old Butler place," now owned and occupied by Dr. W. E. Mealing, at north end of peach orchard, 300 meters north of large square two and a half story brick house standing on top of a hill, about 4 meters west of dividing line between the Butler property and that of P. B. Lobin, whose house is 150 meters north and a little east of station, 150 meters west of Augusta-Aiken electric railway; pipe filled with concrete with a 40-d nail in center of pipe, head down, with point just out of concrete; marked "U. S. C. & G. S. 1902"	° ' "	° ' "	Feet.
North Augusta, water tower.....	33 30 24.94	81 57 50.20	.....
Road fork.....	33 30 14.4	81 58 02.4	1,489
T road east, near two-story frame house on north side of road.....	33 30 37.8	81 53 31.5	3,418
Crossroads, private road east and west.....	33 31 36.0	81 58 46.8	6,026
Fox Creek, 1,170 feet west of, 4 feet north of 10-inch poplar tree; stone in middle of road fork.....	33 32 09.2	81 59 17.7	4,256
Currytown road, 485 feet east of Barker's residence, in southwest angle of crossroads, on root of 13-inch red-oak tree, on west side of tree; copper nail and washer.....	33 32 29.9	81 59 53.5	3,680
Center of Five Notch road, at T road west.....	33 36 03.0	81 58 35.8	.....
Center of Five Notch road, opposite milepost 11.....	33 36 47.7	81 57 55.9	5,631
Center of Five Notch road, at forks at Gardnerville School.....	33 37 10.2	81 58 07.6	2,480
Squared milepost, on east side of road, marked "12".....	33 37 33.5	81 58 23.5	2,717
Center of road, at T road east.....	33 38 04.7	81 58 29.8	3,200
Center of road, at T road east.....	33 38 21.5	81 58 42.4	1,999
Center of wooden bridge over Cheves Creek, across "Five Notch road".....	33 38 51.8	81 58 42.1	3,064
Center of road, at T road east, near H. W. Shaw's residence.....	33 39 06.9	81 58 27.0	1,984
Road fork.....	33 40 05.8	81 58 40.5	6,065
Ropers crossroads, 50 feet north of, on east side of road, in pine tree; copper nail and washer.....	33 40 52.8	81 59 07.0	5,247

## North along highways near west border of quadrangle.

Center of public road at private-road crossing, opposite W. J. Lanham's residence.....	33 42 19.1	81 59 57.7	.....
Center of crossroads.....	33 42 47.6	81 59 48.1	3,002

## East along highways near north border of quadrangle.

Road fork.....	33 44 15.9	81 59 18.3	.....
Center of road, opposite center of C. Wells's residence.....	33 44 11.0	81 58 46.3	2,746
J. K. Smith's residence, on north side of road near, on root of 18-inch tree; copper nail and washer.....	33 44 07.5	81 58 24.4	1,880
Road fork.....	33 44 08.9	81 58 05.8	1,573
Road fork.....	33 44 19.0	81 57 43.0	2,183
Road fork, 450 feet north of another road fork.....	33 44 41.3	81 57 23.7	2,778
Crossroads, 550 feet east of residence.....	33 44 48.7	81 56 24.5	5,047
Stone milepost, on old stage road.....	33 44 55.7	81 56 09.7	1,440
Crossroads, 350 feet north of post marked "5 miles to Edgefield".....	33 44 35.5	81 52 05.1	.....
Trenton, 0.75 mile west of, center of crossroads.....	33 44 02.0	81 51 21.8	4,977
Trenton, Prim. Trav. Sta. No. 3 (previously described).....	33 44 36.7	81 50 27.0	5,802

## Northwest along highways through center of quadrangle.

Vauluse, Prim. Trav. Sta. No. 2 (previously described).....	33 36 48.6	81 48 14.9	.....
Vauluse, 1 mile west of, 630 feet southeast of milepost 7, road fork west.....	33 37 00.7	81 49 09.8	4,800
Vauluse, 2 miles northwest of, 230 feet southeast of stone marked "XIII" in milepost 8.....	33 37 45.4	81 49 53.1	5,823
Crossroads.....	33 38 16.0	81 50 29.6	4,371
Road fork.....	33 38 43.9	81 50 54.1	3,498
Squared sandstone milepost, on north side of road, 80 feet east of larger red-oak tree.....	33 39 00.0	81 51 22.0	2,859
Crossroads.....	33 39 01.3	81 51 24.2	220
Crossroads.....	33 39 11.0	81 51 39.9	1,664
Bettis Academy, 0.5 miles southwest of, road fork.....	33 39 18.8	81 51 54.1	1,435
Squared sandstone milepost marked "7".....	33 39 24.4	81 52 05.5	1,120

## WARRENVILLE QUADRANGLE—Continued.

Northwest along highways through center of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road fork, 225 feet southeast of R. Ryan's residence.....	33	39	38.6	81	52	18.3	1,795
Plank road, at junction with Newmarket road at the "Old Wells place," 1 mile southwest of Purdue's store, 29 feet northwest of crossroads; iron post stamped "Prim. Trav. Sta. No. 6, 1918 Y".....	33	39	56.4	81	52	52.0	3,364
Cheves Creek ford, 300 feet west of, at T road north.....	33	40	40.4	81	54	08.6	7,855
Crossroads, at mail box 26.....	33	40	38.6	81	54	23.9	1,307
T road south, 35 feet north of mail box.....	33	40	58.6	81	55	15.8	4,832
T road west, opposite Alex. Palmer's mail box.....	33	41	30.2	81	55	59.2	4,856
T road north to Edgefield, 1,100 feet east of crossroads.....	33	41	50.6	81	56	29.3	3,276
Roper's crossroads (previously described).....	33	40	52.8	81	59	07.0	14,551

Magnetic declination for northeast part of quadrangle,  $0.7^{\circ}$  E.; for west part,  $1.0^{\circ}$  E.; for north part,  $0.7^{\circ}$  E.; for center,  $0.6^{\circ}$  E.

Along Southern Ry. near south border of quadrangle. (By E. L. McNair in 1918.)

Milepost 60, center of track opposite.....	33	33	32.0	81	45	20.1	.....
Road crossing.....	33	33	35.0	81	46	25.5	5,540
Parker spur, switch stand at.....	33	33	35.4	81	47	05.9	3,423
Road crossing.....	33	33	20.2	81	47	57.1	4,595

Along Southern Ry. near northeast corner of quadrangle. (By B. H. Yoakum in 1918.)

Trenton, 1 mile south of, First Baptist Church spire.....	33	44	08.0	81	49	59.3	.....
Trenton, 1.5 miles southeast of, road crossing.....	33	44	22.2	81	49	37.3	2,356
Road crossing.....	33	43	42.1	81	49	09.2	4,697
Milepost 9, railroad track opposite.....	33	43	08.5	81	48	19.4	5,410
Milepost 10, railroad track opposite.....	33	42	28.2	81	47	47.3	4,895
Baynhams, road crossing at.....	33	42	16.0	81	47	36.9	1,507
Road crossing.....	33	41	52.3	81	46	34.9	5,768
Eureka, 40 feet east of wagon road, 22 feet south of main line, in plat of ground between railroad track and wagon road; iron post stamped "Prim. Trav. Sta. No. 4, 1918 Y".....	33	41	38.1	81	46	01.0	3,206
Milepost 13, railroad track opposite.....	33	41	04.3	81	45	20.8	4,822
Milledgeville, road crossing at.....	33	40	26.2	81	45	07.2	4,018
Eureka, about 1 mile northeast of bridge over Shaws Creek.....	33	42	13.9	81	45	36.1	.....

## WAVERLY MILLS QUADRANGLE.

Northeast through northwest corner of quadrangle. (By Oscar Jones in 1917.)

Center of small bridge.....	33	27	56.6	79	13	35.8	.....
Road fork.....	33	28	11.0	79	13	09.5	2,665
Road fork.....	33	28	36.7	79	12	22.9	4,726
Road fork.....	33	28	47.9	79	12	02.5	2,070
Road fork.....	33	29	15.1	79	11	12.1	5,070

West along north border of quadrangle.

Road forks.....	33	28	36.7	79	12	22.9	.....
Center of small bridge over creek.....	33	29	09.4	79	13	04.8	4,846
Road fork.....	33	29	18.2	79	14	09.6	5,564

Northeast along highways. (Checked spur line.)

Road forks.....	33	19	21.6	79	14	58.2	.....
Crossroads.....	33	19	38.4	79	14	28.8	3,019
Crossroads.....	33	20	10.3	79	14	07.0	3,720
Road fork at creek.....	33	20	37.5	79	13	51.1	3,057
Road fork east.....	33	21	18.7	79	13	11.9	5,328
Crossroads.....	33	22	03.9	79	13	08.7	4,571
Crossroad to Arcadia.....	33	22	39.5	79	12	43.4	4,194
Arcadia, center of iron gate.....	33	22	54.1	79	13	12.4	2,864



## WAVERLY MILLS QUADRANGLE—Continued.

## Northeast along highways—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fet.</i>
Road fork.....	33	23	15.2	79	12	46.3	3,074
Creek crossing.....	33	23	24.8	79	12	20.0	2,431
Crossroads.....	33	23	52.8	79	12	06.1	3,066
Railroad crossing.....	33	24	46.6	79	11	15.0	6,913
Road crossing.....	33	25	06.8	79	10	48.2	3,104
Crossing of old tramway.....	33	25	14.1	79	10	29.4	1,750
Hagley, 1 mile east of, crossroads.....	33	25	51.8	79	09	52.5	4,929
Center of crossroads.....	33	23	05.6	79	12	20.0	.....

## From Hagley northeast. (Unchecked spur line.)

Crossroads.....	33	26	06.7	79	04	41.2	.....
Creek crossing.....	33	26	27.6	79	09	23.8	.....
Creek crossing.....	33	26	44.9	79	09	09.3	2,140
Crossroads.....	33	26	59.2	79	08	57.2	1,770
Crossing of tramway.....	33	27	26.4	79	08	36.1	3,278
Road fork at store.....	33	27	46.5	79	08	26.8	2,178
Crossroads.....	33	28	25.2	79	08	04.1	4,359
Oatland Creek Church, 54 feet west of southwest corner of; iron post stamped "Prim. Trav. Sta. No. 7".....	33	29	16.6	79	07	26.4	6,107

Magnetic declination for line 1.8° W.

## WILLISTON QUADRANGLE.

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

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Fet.</i>
Road crossing, 40 feet east of milepost 72.....	33	16	09.1	81	15	37.6	.....
Road crossing.....	33	15	53.9	81	16	26.3	4,410
Road crossing, public road.....	33	15	42.1	81	17	04.0	3,420
Road crossing.....	33	15	35.8	81	17	54.6	4,344
Trestle bridge over creek, center of.....	33	15	36.0	81	18	31.3	3,115
Road crossing.....	33	15	36.2	81	19	07.2	3,050
Road crossing.....	33	15	22.1	81	19	41.5	3,241
Road crossing, under railroad.....	33	15	00.7	81	20	09.6	3,220

## Near Hilda. (By H. S. Senseney in 1918.)

Hilda, 2 miles south of, 0.25 mile north of Hercules Creek, 20 feet south and 15 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 13 S, 1918".....	33	15	03.2	81	15	27.2	.....
T road west.....	33	15	30.6	81	15	12.6	3,040
T road west.....	33	15	50.5	81	15	01.2	2,235

Magnetic declination for quadrangle, 0.1° W.

## Along Southern Ry. through center of quadrangle. (By E. L. McNair in 1918.)

Road crossing.....	33	24	57.7	81	27	04.7	.....
Road crossing.....	33	25	19.4	81	27	48.9	4,340
Road crossing between White Pond station and water tank.....	33	25	40.0	81	28	18.9	3,281
Road crossing.....	33	26	29.1	81	28	56.2	5,886
Nixon spur, switch stand at.....	33	27	05.7	81	29	24.1	4,390
Road crossing.....	33	27	28.1	81	29	41.2	2,690
Intersection of tangents.....	33	21	16.2	81	15	18.9	.....
Blackville station, 135 feet west of railroad crossing, about in line with track going east, 15 feet south of track west; iron post stamped "Prim. Trav. Sta. No. 92, 1918 Mac." Azimuth to milepost 28, 105° 21' 55".....	33	21	18.2	81	16	31.0	6,120
Road crossing.....	33	21	37.1	81	18	00.3	7,820
Road crossing.....	33	21	51.3	81	19	08.3	8,940

## WILLISTON QUADRANGLE—Continued.

Along Southern Ry. through center of quadrangle—Continued.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Reynolds station, road crossing at.....	33	22	01.5	81	19	49.6	<i>Feet.</i> 3,654
Road crossing.....	33	22	24.0	81	20	59.2	6,320
Road crossing.....	33	22	33.5	81	21	46.0	4,085
Elko station, opposite and across track from east end of, 27 feet north of center of track; iron post stamped "Prim. Trav. Sta. No. 93, 1918 Mac." Azimuth to center of square church tower, 348° 44' 00".....	33	22	51.6	81	22	47.6	5,537
Milepost 35, center of track opposite.....	33	23	15.8	81	23	37.7	4,898
Milepost 36, center of track opposite.....	33	23	42.3	81	24	31.5	5,290
Williston station, street crossing 100 feet west of.....	33	24	07.0	81	25	21.7	4,931
Road crossing.....	33	24	30.3	81	26	09.1	4,660

Along highways near west border of quadrangle. (By B. H. Yoakum in 1918.)

Seven Pines School, crossroads at.....	33	15	08.1	81	27	06.8	.....
Private-road forks.....	33	15	58.8	81	27	03.0	5,128
Intersection of five roads.....	33	16	44.1	81	28	31.5	8,797
Road forks.....	33	17	09.0	81	28	59.5	3,463
Road forks.....	33	20	56.2	81	29	30.4	7,183
Crossroads.....	33	21	24.7	81	29	02.0	3,758
Crossroads.....	33	22	08.5	81	28	41.6	4,741
Williston, 2.75 miles southwest of, at residence of T. W. Scott, 30 feet south and 10 feet west of crossroads; iron post stamped "Prim. Trav. Sta. No. 19, 1918 Y".....	33	22	57.4	81	27	29.7	7,851
Crossroads.....	33	23	47.5	81	27	50.9	5,362
Road forks.....	33	24	19.3	81	28	03.2	3,378
Crossroads.....	33	25	03.7	81	28	41.0	5,506

Magnetic declination for west border of quadrangle, 0° 34' E.

From Blackville to Springfield along highways. (By George T. Hawkins in 1918.)

Blackville, "Prim. Trav. Sta. No. 92, Mac. 1917".....	33	21	18.2	81	16	31.0	.....
Forks of road, 1.2 miles north of Blackville.....	33	22	15.6	81	16	26.4	5,817
Bridge.....	33	23	15.8	81	16	41.2	6,217
T road east at three mail boxes.....	33	23	40.1	81	16	50.0	2,565
Crossroads, 300 feet northeast to house.....	33	24	48.7	81	16	58.6	6,978
County-road fork to northwest.....	33	25	48.5	81	17	08.9	6,108
Crossroads, three mail boxes.....	33	26	42.1	81	17	05.4	5,428
T road west, in swamp.....	33	27	30.0	81	16	42.1	5,230
Forks of road to east, in swamp.....	33	27	46.5	81	16	16.7	2,728
Road east.....	33	28	26.2	81	16	12.8	4,017
Forks of road, 1.5 miles southeast of Springfield.....	33	28	40.9	81	16	06.6	1,578
Springfield, 0.75 mile southeast of, 20 feet north and 10 feet west to crossroads; (junction point).....	33	29	32.9	81	15	52.0	5,405

## WOODFORD QUADRANGLE.

West along highways near south border of quadrangle. (By George T. Hawkins in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Station 41=station 350.....	33	31	53.6	81	07	30.2	<i>Feet.</i> .....
Second-class crossroads.....	33	31	25.1	81	08	22.0	5,244
Road forks, 70 feet southwest to signboard.....	33	31	13.9	81	08	34.9	1,580
Second-class road northwest.....	33	30	47.0	81	09	19.7	4,668
Three corners at new house.....	33	30	34.8	81	10	21.7	5,396
Road fork to north, 150 feet east to pecan tree.....	33	30	44.1	81	11	08.1	4,035
T road south.....	33	30	27.8	81	11	43.3	3,410
T road north, telephone line.....	33	30	15.6	81	12	30.9	4,219
T road north, telephone line.....	33	30	15.3	81	13	05.0	2,878

## WOODFORD QUADRANGLE—Continued.

West along highways near south border of quadrangle. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Crossroads.....	33	31	17.2	81	00	19.5	.....
Sawmill, 300 feet east of, road fork.....	33	31	12.5	81	01	29.2	5,914
Pine Hill Church, crossroads at.....	33	31	16.5	81	02	54.5	7,237
Neeses, 4 miles east of, on north side of Ninety-six road and in line with T road south; iron post stamped "Elev. 333".....	33	31	24.4	81	04	10.2	6,448
Crossroads.....	33	31	19.4	81	05	29.7	6,753
Township corner, on north side of road, in 12 by 12 inch granite post.....	33	31	21.9	81	06	19.4	4,214
Road fork.....	33	31	34.3	81	06	51.3	2,967
Neeses, 500 feet south of railroad station, at road crossing; rail joint.....	33	31	53.60	81	07	30.20	3,829

Magnetic declination for south border of quadrangle, 0° 15' W.

North along west border of quadrangle. (By G. T. Hawkins in 1918.)

Second-class road.....	33	32	23.8	81	14	58.4	.....
T road east at house.....	33	32	53.7	81	14	49.8	3,110
Four corners, telephone lines north, south, and west.....	33	33	42.8	81	14	35.8	5,100
Opposite old store (W. A. Knott's).....	33	34	47.2	81	14	11.9	6,817
Road southeast, 0.25 mile south of school.....	33	35	14.5	81	14	02.6	2,870
Crossroad north of school.....	33	35	29.1	81	13	57.1	1,540
Springfield, 8.5 miles north of, at northeast corner of crossroad, southwest of five mail boxes; iron post stamped "Prim. Trav. Sta. No. 55, 1918 H".....	33	36	03.17	81	13	43.37	3,636
Three corners.....	33	35	42.3	81	14	39.2	5,172

North through northwest part of quadrangle.

Springfield, 8.5 miles north of, Prim. Trav. Sta. No. 55, 1918 H (previously described).....	33	36	03.17	81	13	43.37	.....
Second-class fork.....	33	36	41.8	81	13	21.8	4,309
Crossroad at mail box.....	33	37	35.1	81	12	36.0	6,637
Second-class crossroads, 200 feet west to house, 20 feet north to mail box 61.....	33	38	06.3	81	11	58.5	4,471
Second-class crossroad.....	33	38	42.9	81	11	22.4	4,793
T road west at house.....	33	38	53.0	81	11	15.6	1,173
North end of bridge.....	33	39	05.6	81	11	06.7	1,482
Fork of road, 200 feet west of new house.....	33	39	36.2	81	11	00.4	3,143
Fork of road northwest.....	33	39	55.3	81	11	02.4	1,937
Crossroads, 300 feet west to house.....	33	40	46.3	81	11	06.8	5,167
Road west at mail box.....	33	41	18.8	81	11	11.8	3,310
Fork of road to northwest, 300 feet north of new house.....	33	41	30.3	81	10	52.2	2,029
Second-class crossroad.....	33	42	19.7	81	10	22.4	5,588
Forks of road, 50 feet south to sign "Blackville".....	33	42	55.8	81	10	11.0	3,777
Forks of road northwest.....	33	43	18.3	81	10	20.3	2,407
Southeast corner of crossing of Columbia and Blackville road with Swansea and Wagener road; iron post stamped "Prim. Trav. Sta. No. 57, 1918 H".....	33	43	38.23	81	10	23.46	2,034

Magnetic declination along west border of quadrangle, 0° 20' W.

From Swansea west along public road to post 57.

Swansea F (traverse station of the U. S. Coast and Geodetic Survey) (described later).....	33	44	28.00	81	06	10.90	.....
Center of bridge over mill race at mill.....	33	43	57.8	81	06	28.8	3,402
Road fork.....	33	43	52.6	81	07	07.1	3,272
Crossroads.....	33	43	48.2	81	07	59.6	4,461
Crossroads.....	33	43	58.9	81	08	58.1	5,052
Road fork, at foot of hill.....	33	43	57.8	81	09	48.9	4,295
Crossing of Columbia and Blackville road with Swansea road, Prim. Trav. Sta. No. 57 H, 1918 (previously described).....	33	43	38.23	81	10	23.46	3,523

Magnetic declination for quadrangle, 0.30° W.

## WOODFORD QUADRANGLE—Continued.

West along public road to Swansea. (By Oscar Jones in 1919.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Road fork.....	33	44	08.4	81	00	39.5	.....
Road fork.....	33	44	12.2	81	01	15.0	3,022
Crossroads.....	33	44	23.8	81	01	40.2	2,420
Road fork.....	33	44	26.4	81	02	55.7	6,380
Center of road, opposite house on south side.....	33	44	28.1	81	04	54.9	10,064
U. S. Coast and Geodetic Survey's station Swansea F (described later).....	33	44	28.00	81	06	10.90	6,415

## North along Seaboard Air Line Ry. (By George T. Hawkins in 1918.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	<i>Feet.</i>
Second-class road crossing.....	33	30	00.7	81	07	07.5	.....
Norway C (traverse station of the U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at curve 250 meters north of milepost 242, about 1.5 miles south of Neeses railroad station, at intersection of tangents to curve of east rail of main track, 8.45 meters west of west rail; standard disk in top of a square block of concrete.....	33	30	40.40	81	07	09.82	4,018
Second-class road crossing.....	33	30	53.9	81	07	07.0	1,383
Second-class road crossing.....	33	31	39.0	81	07	24.2	4,792
Neeses station, 500 feet south of joint at road crossing.....	33	31	53.6	81	07	30.2	1,563
Neeses (traverse station of U. S. Coast and Geodetic Survey), in town of Neeses, on south side of street which runs east and west one block south of Seaboard Air Line Ry. depot, 10 meters south of middle of street, 125 meters east of Seaboard Air Line Ry.'s main track. (U. S. C. & G. S. b. m. V <sub>1</sub> .) Distance 129.33 meters from station mark. Surface-station mark: A standard disk in top of square block of concrete.....	33	31	54.59	81	07	25.53	409
County-road crossing.....	33	32	36.8	81	07	34.2	4,325
South Livingston station.....	33	33	06.5	81	07	10.8	3,594
Livingston (traverse station of the U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, on east bank of cut, 250 meters north of depot at Livingston, 170 meters north of switch stand at north end of side track, 7.5 meters east of east rail. Station is between the public wagon road and the railroad track, about 2 meters above the track. Reference mark is distant 17.40 meters, 7.29 meters west of west rail, on line with telegraph poles, and about 2 meters above track. Surface-station mark: A standard disk in top of a square block of concrete.....	33	33	23.66	81	07	09.39	1,730
Second-class road crossing.....	33	33	57.7	81	07	07.4	3,449
Livingston A (traverse station of the U. S. Coast and Geodetic Survey), on the Seaboard Air Line Ry. right of way, at curve 1 mile north of Livingston railroad station, at intersection of tangents to curve of east rail of main track, 30 meters west of track. The land about the station is cultivated. Reference mark is distant 29.84 meters, 6.17 meters west of west rail, about 0.75 meter below track. Surface-station mark: A standard disk in top of a square block of concrete.....	33	34	04.11	81	07	07.00	650
Second-class road crossing.....	33	34	39.7	81	06	33.0	4,604
Center of river, east.....	33	35	28.2	81	06	20.3	5,023
North station, south end of siding.....	33	36	25.6	81	06	14.4	5,819
North station, road crossing north of.....	33	36	59.8	81	06	10.9	3,466
Mill road crossing.....	33	37	22.2	81	06	08.6	2,270
Road crossing.....	33	38	02.9	81	06	04.5	4,130
Douglas (traverse station of the U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at curve at milepost 252, 1.25 miles south of Woodford railroad station, at intersection of tangents to curve of west rail of track, 18.50 meters east of east rail, 35 meters south of milepost. Reference mark is distant 31.15 meters, about 35 meters south of milepost, 8.61 meters west of west rail of track, on line with telegraph poles. Surface-station mark is a standard disk in top of a square block of concrete.....	33	38	47.35	81	05	59.96	4,509
Woodford railroad station, road crossing north of.....	33	40	02.8	81	06	41.2	8,384
Woodford (traverse station of the U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at curve at milepost 254, 1 mile north of Woodford railroad station, at intersection of tangents to curve of west rail of main track, 7.7 meters west of west rail, about 1.5 meters above track. (U. S. C. & G. S. bench mark B <sub>2</sub> .) Distant 55.56 meters. Surface-station mark is a standard disk in top of a square block of concrete.....	33	40	26.38	81	06	54.11	2,619
Miller (traverse station of the U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at curve at milepost 255, about 3.5 miles south of Swansea railroad station, at intersection of tangents to curve of west rail of main track, 22.79 meters west of west rail. Reference mark is distant 35.79 meters, 100 meters south of milepost, 8.46 meters east of east rail, just south of a private-road crossing. Surface-station mark is a standard disk in top of a square block of concrete.....	33	41	11.50	81	07	00.1	4,590

**WOODFORD QUADRANGLE—Continued.**  
**North along Seaboard Air Line Ry.—Continued.**

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fect.
Road crossing.....	33 41 43.4	81 06 42.2	3,565
Miller A (traverse station of the U. S. Coast and Geodetic Survey) on Seaboard Air Line Ry. right of way, at first curve about 0.5 mile north of milepost 256, 2.5 miles south of Swansea railway station, at intersection of tangents to curve of west rail of main track, 16.77 meters west of west rail. Reference mark is distant 23.98 meters, 9.09 meters west of west rail, about on line with northward tangent to curve. Surface-station mark is standard disk in top of square block of concrete.....	33 42 17.96	81 06 22.88	3,845
Road crossing, 40 feet southwest to U. S. Coast and Geodetic Survey bench mark.....	33 42 23.9	81 06 11.6	1,136
Road crossing, 20 feet east of crossing sign.....	33 43 09.3	81 06 03.7	4,636
Swansea C (traverse station of the U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at curve 300 meters south of milepost 258, 0.5 mile south of Swansea railroad station, at intersection of tangents to curve of east rail of main track, 5.12 meters east of east rail; standard disk in top of square block of concrete.....	33 43 26.59	81 06 08.66	1,796
Swansea E (traverse station of U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at first curve south of Swansea railroad station, 21.2 meters west of west rail of main track, at intersection of tangents to curve of east rail; a standard disk in top of square block of concrete.....	33 43 54.62	81 06 21.07	3,022
Road crossing, at south end of Swansea railroad station.....	33 44 13.6	81 06 15.4	1,982
Swansea F (traverse station of U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at curve at milepost 259, one-eighth of a mile north of Swansea railroad station, at intersection of tangents to curve of east rail of main track, 18.17 meters east of east rail; standard disk in top of square block of concrete.....	33 44 28.00	81 06 10.90	1,497
Swansea G (traverse station of U. S. Coast and Geodetic Survey), on Seaboard Air Line Ry. right of way, at curve 650 meters north of milepost 259, 0.5 mile north of Swansea railroad station, at intersection of tangents to curve of east rail of track, 8.76 meters west of west rail; standard disk in top of square block of concrete.....	33 44 46.56	81 06 18.23	1,976

**YAUHANNAH QUADRANGLE.**

South along highways near east border of quadrangle. (By Oscar Jones in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
	° ' "	° ' "	Fect.
Center of bridge.....	33 44 35.8	79 01 21.1	.....
Center of bridge.....	33 44 06.1	79 01 28.6	3,063
Road fork at cattle dip.....	33 43 51.1	79 01 27.7	1,520
Crossroads.....	33 42 53.9	79 01 27.6	5,783
Center of bridge.....	33 42 31.5	79 01 15.4	2,489
Road fork.....	33 41 53.9	79 00 48.3	4,437
Road fork of Conway and Myrtle Beach road and Murrel's Inlet road, in southeast corner of, 300 feet west of church; iron post stamped "Prim. Trav. Sta. No. 18 J, 1918".....	33 41 01.5	79 00 12.5	6,104
Road fork at cattle dip.....	33 40 28.1	79 00 19.8	3,426
Road fork.....	33 39 57.5	79 00 29.1	3,190
Road fork.....	33 39 35.2	79 00 45.8	2,662
Center of bridge.....	33 39 20.4	79 01 01.1	1,980
T road east at house.....	33 39 00.7	79 01 18.6	2,477
Crossroads.....	33 38 18.7	79 01 55.5	5,270
Road fork.....	33 37 34.0	79 02 08.6	4,657
Road fork, 100 feet north of cattle dip.....	33 37 04.9	79 02 45.1	4,260
Road fork, at store.....	33 36 29.3	79 03 15.8	4,440
Road fork, Murrel's Inlet 4 miles.....	33 35 43.0	79 03 39.5	5,094
Road fork.....	33 35 07.2	79 03 52.3	3,775
Crossing of small creek.....	33 34 26.3	79 03 46.2	4,167
Crossing of small creek.....	33 34 00.5	79 04 01.8	2,927
Crossroads, at cattle dip.....	33 33 44.2	79 04 15.7	2,025
Wachesaw crossroads.....	33 33 32.9	79 04 26.0	1,435
Crossroads, 200 feet south of church.....	33 33 17.0	79 04 35.5	1,795
Road fork.....	33 32 32.9	79 04 39.7	4,473
Crossroads.....	33 31 30.3	79 04 51.5	6,410
Crossroads, 200 feet north of store.....	33 30 59.7	79 05 11.0	3,505
Crossroads, at church.....	33 30 58.7	79 05 31.0	1,690
Crossroads.....	33 30 36.6	79 05 59.3	3,280
Crossroads.....	33 30 01.9	79 06 40.9	4,970

Magnetic declination near east border of quadrangle, 2° 00' W.

## YAUHANNAH QUADRANGLE—Continued.

Southwest along highways. (By Oscar Jones in 1918.)

Stations.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Crossroads, at church.....	33	44	21.2	79	04	48.7	.....
Center of bridge.....	33	43	44.5	79	04	38.8	3,808
Crossroads.....	33	43	28.5	79	04	42.6	1,651
Center of bridge.....	33	42	57.5	79	05	01.2	3,498
Road fork, at cattle dip.....	33	42	22.9	79	05	27.7	4,151
Road fork.....	33	42	13.0	79	05	53.9	2,430
Road fork.....	33	41	55.9	79	06	35.9	3,949
Klondyke, crossroads, 100 feet northeast of church.....	33	41	06.7	79	06	53.0	5,179
Crossing of old railroad grade.....	33	40	47.0	79	07	09.0	2,410
Port Harrison Ferry, 150 feet east of landing on north bank of Brine Creek, 10 feet northwest of fence corner; iron post stamped "Prim. Trav. Sta. No. 13 J, 1918".....	33	39	51.9	79	08	07.2	7,424
Yauhannah Ferry landing.....	33	39	08.7	79	09	33.6	8,519
South ferry landing.....	33	39	07.8	79	09	39.4	491
Flowing well, center of road opposite.....	33	38	42.8	79	10	24.4	4,571
Smith Mill, road fork.....	33	37	53.2	79	11	16.2	6,651
Crossroads.....	33	37	29.6	79	11	26.9	2,560
Center of creek.....	33	36	58.7	79	11	40.8	3,340
Center of north bridge of two, 100 feet south of road fork.....	33	36	51.6	79	11	44.6	784
Road fork at church.....	33	36	37.1	79	11	39.6	1,519
Crossing of lumber railroad.....	33	35	53.0	79	10	25.2	4,630
Crossing of small stream.....	33	35	06.3	79	11	08.7	4,920
Center of road, opposite church.....	33	34	33.4	79	11	09.0	3,326
Crossroads, two mail boxes in northeast corner.....	33	33	52.6	79	11	09.7	4,130
Crossroads, at one mail box.....	33	33	10.0	79	11	23.0	4,450
Center of bridge.....	33	32	51.0	79	11	30.2	2,011
White Church, road fork to Plantersville at; hub.....	33	32	45.8	79	11	33.6	605
Road fork.....	33	32	31.8	79	11	27.6	1,500
T road east through painted gate.....	33	31	50.8	79	11	10.5	4,400
Road fork at large mail box.....	33	31	27.9	79	11	01.5	2,430
Center of bridge over creek.....	33	30	46.3	79	10	51.0	4,301
St. Frederick Peedee Church, 100 feet west of; iron post stamped "Prim. Trav. Sta. No. 4 J, 1917".....	33	30	20.2	79	10	50.3	2,639

## Northwest on highways near northwest corner of quadrangle.

Road fork.....	33	37	53.2	79	11	16.2	.....
Crossroads.....	33	38	35.0	79	10	57.7	4,499
Road fork, 400 feet southeast of church.....	33	39	01.0	79	11	11.6	2,882
Road fork.....	33	39	33.6	79	11	43.5	4,260
Road fork.....	33	40	20.5	79	12	29.4	6,120
Creek crossing.....	33	40	33.6	79	12	43.8	1,801
Road fork, near summit of hill.....	33	40	50.7	79	13	15.2	3,173
Crossroads at church.....	33	40	53.7	79	13	40.7	2,173
Road fork.....	33	40	58.2	79	14	21.3	3,460

Magnetic declination near northwest corner of quadrangle, 1° 58' W.

## North along highways near center of quadrangle.

Prim. Trav. Sta. No. 13, 1918 (previously described).....	33	39	51.9	79	08	07.2	.....
Center of bridge.....	33	40	06.6	79	08	12.3	1,546
Crossroads.....	33	41	09.2	79	08	41.0	6,779
Road fork at log barn.....	33	41	34.8	79	09	00.9	3,082
Road fork.....	33	41	55.6	79	09	28.8	3,157
Road fork.....	33	42	31.4	79	09	59.0	4,430
Road fork.....	33	42	47.2	79	10	03.8	1,640
Road fork, 260 feet south of corner of field.....	33	43	04.5	79	10	03.2	1,753
Crossroads.....	33	43	29.0	79	10	04.2	2,472
Center of culvert.....	33	44	19.6	79	10	30.9	5,588
Center of bridge.....	33	44	40.0	79	10	42.8	2,291

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

## East along public road near south and west borders of quadrangle. (By Oscar Jones in 1918.)

Center of bridge.....	33	33	33.6	79	14	32.7	.....
Center of culvert.....	33	33	31.7	79	13	39.8	4,481
Plantersville, 300 feet west of church, T road south.....	33	33	18.7	79	12	54.9	4,022
Road fork.....	33	32	55.2	79	12	06.1	4,768
Center of bridge.....	33	32	43.8	79	11	47.1	1,981
White church, hub at road fork to Plantersville.....	33	32	45.8	79	11	33.6	1,158

## YEMASSEE QUADRANGLE.

Northeast along Atlantic Coast Line R. R. (By E. L. McNair in 1917.)

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	
Road crossing.....	32	30	48.4	80	58	02.3	Feet.
Milepost 41.....	32	31	32.3	80	57	41.0	4,800
Concrete culvert.....	32	32	00.1	80	57	27.6	3,034
Bashan, road crossing at.....	32	32	36.9	80	57	09.8	4,015
Road crossing.....	32	33	00.8	80	56	58.2	2,615
Milepost 44.....	32	33	57.7	80	56	30.7	6,210
Milepost 45.....	32	34	46.2	80	56	07.2	5,295
Coosawhatchie station, 63 feet west of corner of platform at south end of station, 20 feet north and 15 feet west of public-road crossing, 8 feet northeast of crossing signpost, on bank, about 4 feet above track; iron post stamped "Prim. Trav. Sta. No. 3, 1917 Mac.".....	32	35	18.9	80	55	47.7	3,706
Road crossing.....	32	35	30.7	80	55	37.5	1,474
Road crossing.....	32	36	04.4	80	55	09.4	4,170
Road crossing.....	32	36	41.1	80	54	38.8	4,535
Milepost 49.....	32	37	39.8	80	53	49.8	7,265
Road crossing.....	32	38	08.5	80	53	25.9	3,545
Milepost 51.....	32	39	05.4	80	52	38.4	7,040
Road crossing.....	32	39	52.0	80	51	59.5	5,760
Road crossing.....	32	40	25.2	80	50	31.8	4,105
Intersection of Charleston & Western Carolina and Atlantic Coast Line railroads.....	32	41	15.8	80	50	49.6	6,269
Yemassee, 220 feet from intersection of Atlantic Coast line and Charleston & Western Carolina railroads, 100 feet S. 50° E. from Atlantic Coast Line R. R., at rear of car and tool house, in open ground; iron post stamped "Prim. Trav. Sta. No. 4, 1917 Mac." Azimuth to left-hand corner of three-story brick building, 57° 43'; to right-hand corner of brick chimney on residence, near gables, 122° 23' 30".....	32	41	16.8	80	50	47.2	220
Yemassee station, 1.45 mile S. 50.5° E. (true) from, at intersection of twolong tangents on Charleston & Western Carolina Ry., in pine woods, on low ground, about 2 inches under surface of ground; a 2-foot drain tile set in cement with nail in center (U. S. Coast and Geodetic Survey station B).....	32	40	28.1	80	49	41.1	7,587
Yemassee siding, switch at north end of.....	32	41	48.5	80	50	22.3	3,844
Trestle bridge over Combahee River, center of stream.....	32	42	14.8	80	49	34.7	4,855
Salkehatchie flag station, road crossing at.....	32	42	21.0	80	48	46.6	4,165
Milepost 58.....	32	42	32.6	80	47	18.0	7,650
Blake siding, road crossing at.....	32	42	39.6	80	46	24.0	4,671

North along highways near west border of quadrangle. (By E. L. McNair in 1917.)

Definite angle in road, center lines both ways.....	32	30	16.7	80	59	27.0	.....
Forks of road, in line three ways.....	32	30	34.6	80	59	37.0	2,000
Intersection with road from Coosawhatchie to Gillisonville.....	32	36	06.6	80	59	30.2	.....
Forks of road, in line with roads north and east.....	32	37	05.6	80	59	42.7	.....
T road corner.....	32	40	11.2	80	59	04.0	.....
T road northwest to Cypress Creek.....	32	41	02.0	80	58	34.4	5,720
Jasper and Hampton county line, stream crossing, north end of long bridge.....	32	41	50.2	80	57	57.4	5,815
T road corners, on Yemassee and Hampton road, near road northeast to Early Branch.....	32	43	03.8	80	57	13.2	8,339
Forks of road.....	32	44	16.2	80	56	19.1	8,655
Early Branch station, at south end of, public-road crossing on Charleston & Western Carolina Ry.....	32	44	44.9	80	55	49.2	3,862
Angle of 21° in road, on center line both ways, opposite opening in fence on north side.....	32	44	53.0	80	54	04.6	8,977
Early Branch station, 2.5 miles east of, on Charleston & Western Carolina Ry., on east side of Beaufort and Burnwell road, in line with T road west to Early Branch; iron post stamped "Prim. Trav. Sta. No. 31 Mac., 1917".....	32	44	44.7	80	53	18.4	4,032
Road forks.....	32	43	26.3	80	52	43.6	8,460
Road forks.....	32	42	34.2	80	51	53.9	6,765
T road west.....	32	42	18.2	80	51	36.2	2,215
Angle in road, on center line both ways, opposite front door of church on east side of road.....	32	41	48.8	80	51	03.9	4,057
Yemassee, Prim. Trav. Sta. No. 4 (described above).....	32	41	16.8	80	50	47.2	3,530

## YEMASSEE QUADRANGLE—Continued.

## Along highways near south border of quadrangle.

Station.	Latitude.			Longitude.			Distance between stations.
	°	'	"	°	'	"	Feet.
Road fork at negro church.....	32	30	43.0	80	55	53.3	5,790
Crossroads.....	32	31	31.8	80	53	51.4	11,534
Forks of road, second-class road S. 70° E.....	32	30	50.8	80	53	21.5	4,870
Boyd's Creek, 1,100 feet southwest of Seaboard Air Line girder bridge over, 2,300 feet east of house of Caesar Huegenius (negro), 251 feet north and 30 feet west of farm-road crossing, on fence line between two fields; iron post stamped "Prim. Trav. Sta. No. 32 Mac., 1917".....	32	30	11.8	80	51	51.8	8,625

## Northeast along Seaboard Air Line Ry.

Road crossing.....	32	30	33.8	80	51	28.8	3,002
Broad River, center of swing span in bridge over.....	32	31	17.0	80	50	17.8	7,445
Broad River, 6,000 feet north of, intersection of railroad tangents.....	32	31	52.7	80	49	19.6	6,146
Farm-road crossing.....	32	32	13.3	80	48	29.5	4,770
Intersection of long railroad tangents.....	32	32	31.2	80	47	46.0	4,138
Road crossing, second-class.....	32	32	38.4	80	46	48.2	5,000
Coosaw flag station, crossing of Charleston & Western Carolina Ry.....	32	32	41.6	80	46	23.0	2,187
Intersection of railroad tangents.....	32	32	46.8	80	45	40.9	3,638

## Northwest along highways near north border of quadrangle.

Road fork.....	32	40	02.4	80	45	44.7	-----
Road fork.....	32	40	13.1	80	47	26.5	8,771
Crossroads.....	32	41	14.8	80	49	52.2	13,956
Yemassee, Prim. Trav. Sta. No. 4 (previously described).....	32	41	16.8	80	50	47.2	4,712

## Along highways near northeast corner of quadrangle. (By E. L. McNair in 1917.)

Angle of 22½° in road, on center lines.....	32	43	04.2	80	46	42.7	-----
T road south through gate to Blake Siding.....	32	43	55.7	80	46	55.2	5,320
Crossing of abandoned tramroad.....	32	44	36.4	80	45	42.6	7,439
Crossroads.....	32	44	56.6	80	45	06.7	3,681