VIRGINIA.

PRIMARY TRAVERSE.

Arringdale, Aylett, Beaver Dam, Bermuda Hundred, Bowling Green, Boykins, Camp Abraham Eustis, Camp Humphreys, Cape Henry, Charles City, Dinwiddie, Disputanta, Doswell, Emporia, Heathsville, Holland, Homeville, Ivor, Jarratt, Kara, Kilmarnock, King William, Lawrenceville, McKenney, Montross, Morattico, Moyock, New Kent, Newport News, Petersburg, Piney Point, Port Royal, Richmond, Smithfield, South Hill, Suffolk, Surry, Tappahannock, Toano, Urbanna, Virginia Beach, Wellville, White Plains, Williamsburg, and Yorktown quadrangles.

BRUNSWICK, CAROLINE, CHARLES CITY, DINWIDDIE, ESSEX, FAIRFAX, GREENSVILLE, HANOYER, ISLE OF WIGHT, JAMES CITY, KING AND QUEEN, KING WILLIAM, MIDDLE-SEX, NANSEMOND, NEW KENT, PRINCE GEORGE, PRINCESS ANNE, SOUTHAMPTON, SURRY, SUSSEX, WARWICK, AND YORK COUNTIES.

The following geographic positions on North American datum were determined in 1916, 1917, and 1918, by J. J. Charters, J. C. Fales, F. J. McMaugh, E. L. McNair, J. J. Phelan, A. C. Schilling, H. J. Switzer, and J. H. Wilson, as indicated at the head of the several quadrangle lists.

For other positions in Virginia see U. S. Geological Survey Bulletins 122, 181, 245, 310, 440, 496, 551, and 644, and the unpublished records of the U. S. Coast and Geodetic Survey and the Chief of Engineers, U. S. Army.

ARRINGDALE QUADRANGLE.

Southwest along Southern Ry. through northwest corner of quadrangle. (By H. J. Switzer in 1918.)

Station.		Latitude.			ongi	between stations.	
Trestle (A. J. 4.8), east end of Road crossing. Grizzard, about 200 feet west of depot, 15 feet north of track, 20 feet east of highway; iron post stamped "Prim. Trav. Sta. No. 10. 1019"	36 36		02.5	77 77	25		Feet. 5,091
No. 10, 1918" Road crossing Trestle (A. J. 1.5), east end of Iron-pipe culvert James River Junction, point of switch Road crossing Crossing, second-class road	36 36 36	42 42 42	28.6 23.0 57.0 29.0 13.3 13.0 12.1	77 77 77 77 77 77 77	27 27 28	21.3 42.9 06.2 50.6 28.3 41.2 23.1	7,145 1,844 3,250 4,587 3,461 1,051 3,413
Along highways.							
Pipe culvert, center of Paison School, 135 feet north of north corner of, 38 feet west of	36	38	45.6	77	29	57.7	
road; iron post stamped "Prim. Trav. Sta. No. 1, 1918"	36 36 36 36 36 36 36 36 36	38 37 36 36 35 34 34 32 33 33 33	22.9 54.9 21.6 47.0 18.9 43.6 18.7 48.1 20.3 10.8 55.1 08.0 36.4 52.7	77 77 77 77 77 77 77 77 77 77 77	28 27 26 25 25 24 24 22 22 17 16 15	32.0 46.5 04.8 34.5 56.3 25.8 57.1 09.0 44.6 16.0 49.5 21.1 18.7 42.8	7, 353 4, 664 4, 790 4, 280 4, 219 4, 358 3, 437 4, 997 7, 432 2, 523 2, 653 5, 851 3, 360

Distance

ARRINGDALE QUADRANGLE—Continued. North along highways near east border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
Culvert under road. Culvert under road. T road north. Road south. Center of road, in front of store. Little Texas, in grass triangle, 15 feet south of telegraph pole; iron post stamped "Prim. Trav. Sta. No. 7, 1918".	36 34 56 7	0 , , ,, 77 16 13.8 77 16 38.8 77 17 09.0 77 18 29.6 77 19 19.6	Feet. 2,055 2,468 6,841 4,962
post stamped "Prim. Trav. Sta. No. 7, 1918" T road west. Center of road, opposite gate. T road west. Box culvert, center of. Fork in road, road south. Bradley's lane. Fork in road, roads north and east, line turns north. South end of small bridge. Center of small bridge over creek. Intersection of roads to Branchville and Drewryville. Intersection of roads to Drewryville and Emporia.	36 37 49.5 36 38 09.0 36 38 28.4 36 38 38 8	77 20 23.4 77 20 24.3 77 20 02.3 77 19 41.9 77 18 54.7 77 17 55.0 77 17 37.0 77 17 18.0 77 17 04.3 77 17 05.9 77 17 18 21.2	6,785 4,131 6,422 2,585 4,315 4,981 3,333 2,185 5,791 4,221 4,080 6,923
West along Southern Ry. through north	half of quadra	angle.	
Drewryville railroad station, 160 feet west of west end of, 10 feet south of south rail of south track; iron post stamped "Prim. Trav. Sta. No. 8, 1918". Road crossing, north rail at. Arringdale station, opposite east door of, center of south track Farm-road crossing, north rail at. Culvert, 30-inch cast iron, near milepost 64. Adams Grove railroad station, 50 feet west of west end of, 6 feet north of track; iron post stamped "Prim. Trav. Sta. No. 9,	36 42 56.6 36 42 58.8 36 43 02.3 36 42 22.4 36 41 50.3	77 18 28.7 77 19 10.9 77 20 14.4 77 21 25.5 77 22 27.5	4,126 3,439 5,180 7,059 6,002
1918". Road crossing, north rail at. Road crossing north rail at. Road crossing Iron-pipe culvert, south rail at. Green Plain station, east end, on north rail. Road crossing, north rail at. James River Junction, point of switch at.	36 41 34.8 36 41 29.8 36 41 31.9 36 41 31.3 36 41 40.3 36 41 48.7 36 41 58.9 36 42 13.3	77 23 12.6 77 23 31.0 77 24 06.9 77 24 53.9 77 26 19.8 77 27 09.0 77 27 46.3 77 28 28.3	3,994 1,585 2,932 3,826 7,058 4,092 3,211 3,718
Along highways near northeast corner	of quadrangl	е.	•
Bridge 209 feet long, southeast end of (distance from Primary Traverse Station No. 8). Bridge 15 feet long, southeast end of. Bridge 12 feet long, south end of. Bridge, south end of.	36 43 16.3 36 43 43.3 36 43 53.6 36 44 44.2	77 18 34.0 77 19 08.0 77 19 26.1 77 19 22.4	2,037 3,887 1,807 5,123
Along highways from Gaskins to I	ittle Texas.		
Meherrin River, west end of Haley's bridge over Bridge 30 feet long, south end of Culvert, 24-inch galvanized iron Little Texas, Prim. Trav. Sta. No. 7 (previously listed).	36 34 12.0 36 34 29.7 36 35 09.0 36 36 07.7	77 21 43.0 77 21 27.5 77 21 15.4 77 20 23.4	2,701 2,200 4,106 7,299
North along highways near Mehe	rrin River.		
Meherrin River bridge, 1.10 miles from junction of Gaskins- Margarettsville roads, 40 feet north of north end of bridge; iron post stamped "Prim. Trav. Sta. No. 6, 1918" Logging raifroad, crossing on. Fork in road, northwest. Intersection of roads (duplicate) Magnetic declination for east border of quadrang	gle, 4° 10′ W	77 22 06.2 77 22 25.3 77 22 31.2 77 22 16.0	1,730 3,187 2,968 border,
3° 54′ W.; for center, 4° 10′ W.; for southeast corner	· Esta		
East along Southern Ry. (By J. J. P. Drewryville, Prim. Trav. Sta. No. 8 (Switzer)	36 42 56.6	77 18 28.7 77 17 35.6 77 17 18.9	
Center of road, at signooard marked "Drewryville 1 mile"	36 43 06.7 36 43 04.5 36 43 05.7 36 43 10.7	77 16 31.4 77 16 14.5 77 15 34.6	3,869

AYLETT QUADRANGLE.

Along highways in extreme southwest corner of quadrangle. (By E. L. McNair in 1916.)

Station.	Latitude.		L	Longitude.		Distance between stations.	
Road forks, road northwest	37 37	, 45 45	58. 0 25. 1	0 77 77		42. 6 44. 3	Feet. 5,744
Along highways east to west through nor	th h	alf o	of quad	iran	gle.		
Prim. Trav. Sta. No. 27, 0.75 mile west of Dunbrooke. Crossroads. Road north. Indian Neck post office, road forks at, in line with road northwest to Newtown and southwest to Cauthornville. Road forks, center of small grassy triangle at. I lane southwest. T road southwest.	37 37 37 37 37	53 54 54 54 54			01 02 02 04	39. 1 32. 0 29. 9 00. 1 44. 7 07. 4 25. 7	4,949 2,424 4,591 6,681 1,768
T road northeasterly. T road northeasterly. Newtown, 60 feet east and 15 feet south of crossroads at, 15 feet	37	54	59. 6 41. 2		06	18. 8 23. 0	9,323 5,471
south of road, 4 feet inside fence, in yard of T. J. Bates; iron post stamped "Prim. Trav. Sta. No. 33, 1916". T road north. Road fork, 70 feet east of old sign post. Road forks. Center of small wooden-truss bridge over Maracossic Creek, on	37	54	48. 8 57. 4 04. 6 39. 8	77 77 77 77	08 09	41. 4 43. 8 14. 0 42. 3	1,661 5,080 2,523 7,509
line between King and Queen County and Caroline County Road forks, road northeast. Gether post office and store, T road south at (junction point) Mattaponi River, center of wooden bridge over, line between	37 37 37	54 54	•	77 77	11 12		2, 171 3, 727 2, 567
Caroline and King William counties. T road corners, road north. T road corners. Duane post office, 15 feet north and 5 feet east of T road corners at, in line with road southwest, about 35 feet S. 60° W. from southwest corner of store; iron post stamped "Prim. Trav.	37 37 37	54 52 52	09. 2 46. 9 28. 6	77	13	58. 2 13. 5 50. 7	5,783 8,418 3,509
Sta. No. 34, 1916" (junction point). Ford crossing small brook Road forks in Doswell quadrangle.	37 37 37			77	14	49. 0 59. 5 00. 2	5, 437 2, 657 1, 143

Magnetic declination for southwest corner of quadrangle, 5° 00′ W.; for center of north half of quadrangle, 5° 00′ W.

East along highways near north border of quadrangle.

Road forks. Road forks, point is in line with roads in three directions. Sparta post office and store, 50 feet east of, 35 feet west of forks of road, across road opposite house of Dr. Campbell, on bank in front of house of Mrs. Rolfe (Rolfe estate); iron post stamped	37 37	59 59	20. 8 26. 6	77	14 14	38. 5 22. 2	1,428
"Prim. Trav. Sta. No. 40, 1916". Mill race, center of small wooden bridge over. Road forks, road south. Road forks, road north. Crossroads. Alps post office, T road east at.	37 37 37 37 37 37	59 59 59 59 59 59	30. 6 25. 2 20. 8 28. 8 34. 0 40. 9 31. 7	77 77 77 77 77 77 77	12 12 11 11 10 10	48. 6 45. 2	2,851 4,338 2,867 2,622 1,818 3,000 966
Road forks. Small creek, center of wooden bridge over. Creek, center of wooden bridge over. cast of line of road going south	37 37 37	59 59 59	22. 7 29. 9 20. 1	77 77 77		51. 6 10. 3 54. 3	4,394 3,381 6,170
Central Point post office and store, 75 feet northeast of, 40 feet north and 3 feet east of T road corners, 1.5 feet inside fence in yard of M. W. Bird (colored); iron poststamped "Prim. Trav. Sta. No. 41, 1916". T road south, 160 feet east of bridge over small creek. Road forks, at old signboard. Crossroads, road north and second-class road south. T road east at store.	37	59 58 58 58 58	26. 9 50. 5 32. 6 31. 1 29. 2	77 77 77 77 77		44. 8 09. 4 27. 2 07. 4 12. 4	1, 023 4, 641 3, 834 6, 400 4, 405

AYLETT QUADRANGLE-Continued.

South along highways near west border of north half of quadrangle.

Station.	Latitude.			Latitude.			L	ongi	Distance between stations.
Prim. Trav. Sta. No. 40, Sparta post office. Ford of small stream Road forks, second-class road north. Road forks at colored church. Center of bridge over creek. Center of small wooden span bridge T road west in woods. Bagby post office and store, 130 feet west of, 15 feet south of main mail road, in line with road north to Sparta, 4 feet west of telephone pole; iron post stamped "Prim. Trav. Sta. No. 42, 1916". Private road east T road northeast Gether post office.	37 37 37 37 37 37	59 58 58 58 57 57 56 55 55 55 55	30. 56 54. 6 45. 8 13. 3 27. 9 13. 8 29. 7	77 77 77 77 77 77 77 77 77	, 13 12 12 13 14 14 14 13 13 12 12	33. 0 46. 2 33. 4 21. 9 00. 2	Feet. 3, 801 3, 856 3, 441 6, 017 3, 390 4, 463 5, 784 2, 451 3, 392 2, 162		

Along highway north-south through center of quadrangle.

Prim. Trav. Sta. No. 34, at Newtown.	37	54	48, 8	77	07	41.4	
Road fork		54	01. 4	77	08	01. 0	5,039
T road northeast	37	52	51. 2	77	08	39. 5	7,744
T road northeast		52	21. 4	77	08	10.1	3, 828
Ford of small creek		52	16. 4	77	08	04.6	3, 828 676
Road forks, T road east		51	56. 8	77	07	48. 4	2,366
T road easterly.		51	02. 4	77	07	26. 3	5, 787
T road north		50	29. 2	77	07	20. 3 11. 9	3, 547
Center of bridge over creek.	37	50	08. 1	77	07	04. 4	0,047
Treed northeesterly	37		46.6				2, 215
T road northeasterly T road northeast and farm road southwest	07	49		77	06	33. 9	3, 273
Troad northeast and farm road southwest	37	49 49	20. 9	77 77	06	08. 2	3,323
T road east to Biscoe.	31	49	01. 1	111	05	53. 5	2,324
Mattaponi River, center of bridge truss over line between King							
and Queen County and King William County	37	48	48.8	77	05	58. 2	1,298
Beulahville, 5.3 miles southeast of, 1.25 miles west of bridge across				l .			
Mattaponi River, about 75 feet north and 50 feet east of T	ł			l			}
road corners, road southeast to Aylett and northwest to	l			1			
Beulahville, 25 feet east of road to Dunkirk Landing, just	·			1			
inside wire-fence line, 8 feet south of cedar tree; iron post	۔۔۔			l			
stamped "Prim. Trav. Sta. No. 43, 1916"	37	48	06.9	77	06	57. 5	6,377
stamped "Prim. Trav. Sta. No. 43, 1916" Center of concrete bridge over creek. Road forks	37	48	35. 9	77	07	31.0	3,983
Road forks	37	48	41.7	77	07	47. 1	1,418
Road forks, second-class wood road	37	49	50.4	77	08	55. 8	8, 880
Private road east	37	50	25. 3	77	09	17. 5	3,932
Road forks, T road southwest	37	50	33.6	77	09	27. 1	1,131
Road forks, road northeast	37	50	51. 1	77	09	49.3	2,514
Road forks, road northeast	37	51	19.0	77	10	44. 8	5, 275
T road north	37	52	05. 6	77	11	52.8	7, 205
Carlton store, T road southwest at		52	20. 0	77	12	08. 8	1, 937
T road corners		52	46. 9	77	13	13. 5	5, 865
				1			1 3,000
				1			<u></u>

Magnetic declination near north border of quadrangle, 5° 20′ W.; near center of quadrangle, 5° 18′ W.; in southwest quarter of quadrangle, 5° 00′ W.

Along highways in northeast quarter of quadrangle.

Lloyds post office, about 0.75 mile southeast of, 200 feet N. 64° W. from northwest corner of Essex Church, in line with road							
west and close to forks of road; iron post stamped "Prim. Trav. Sta. No. 26, 1916"	37	59	28.8	77	00	17.8	
Banks post office (discontinued), about 400 feet northeast from Lovings, at line between Essex and Caroline counties.	37	59	39. 2	77	04	20.7	
T road east at store	37	58	29. 2	77	04	12.4	7, 108
Beazley's, Troad west, 125 feet north of store.	37	57	53. 7	77	04	13.6	3, 598 6, 686
T road north	37	57	34. 3	77	02		
Doed for the 7 feet coutheast of nine tree	37	57	16. 7	77		19. 7	3, 254
Road forks, road south	37	56	52, 2	77	01	44. 3	3,766
Road forks, road south Crossroads, second-class roads north and south.	37	56		77	01		3,119
Private road southwest	37	56	47.6	77	00	29. 5	2,911
				<u> </u>			<u> </u>

BEAVER DAM QUADRANGLE.

South along highways near east border of south half of quadrangle. (By. E. L. McNair in 1916.)

Station.	Latitude.			L	ongi	Distance between stations.	
Little River, center of wooden bridge over. Road forks. Troad south and a little west. New Found River, ford. Road west. South Anna River, bridge over, center of wooden span on Road forks. Crossroads. T road southwest.	37 37 37 37 37	, 50 50 50 49 48 48 47 47	44. 7 21. 9 02. 9 19. 7 50. 6 12. 0 42. 2 27. 4 51. 7	° 77 77 77 77 77 77 77 77	30 30 30 30 30 30 30 30 30 30	21. 7 59. 8 36. 7 44. 7 41. 1 31. 2 15. 1 12. 1 31. 9	Feet. 3, 828 2, 672 4, 413 2, 954 3, 988 3, 276 1, 518 3, 948

Magnetic declination for east border of south half of quadrangle, 5° 00' W.

BERMUDA HUNDRED QUADRANGLE.

Near east border of quadrangle. (By E. L. McNair in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
Malvern Hill post office, 2 miles northwest of, river road at road northeast to Elko, at northwest corner; iron post stamped "Prim. Trav. Sta. No. 56, 1916"	° ′ ′′ 37 24 20.2	° , ,, 71 15 58.4	Feet.

Magnetic declination for east border of quadrangle, 4° 13' W.

BOWLING GREEN QUADRANGLE.

East along highways near south border of quadrangle (spur line). (By E. L. McNair in 1916.)

Station.		Latit	tude.	L	ongi	Distance between stations.	
Crossroads, second class	38	, 00	01. 1	77	, 25	53. 8	Feet.
East along highways near south border of qu	ıadı	ang	le (ma	in ci	rcui	t).	<u> </u>

			· .				
T road east, second class.	38	00	07. 0	77	24	57. 6	
T road north	38	ÕÕ		77		44. 2	4,724
T road north. Road forks, 85 feet westerly from schoolhouse	38	00	49. 9	77	23	22. 9	6, 511
Road forks	38	00	57. 0	77	23	03. 5	1,715
Mattaponi River, center of concrete bridge over	38	01	08.0	77	22	38. 6	2, 284
Milford, on main line of Richmond, Fredericksburg & Potomac				ļ			1 '
R. R., road crossing; center of tracks			21.0	77	22	28.7	1,531
Road forks	38	00	57. 2	77	21	16.4	6, 262
Bowling Green, 2 miles south of, 20 feet from road and in line with road southwest, location of old Antioch Church, 10 feet north of driveway to house on east side of road; iron post							,
stamped "Prim. Trav. Sta. No. 39, 1916"	38	01	04.0	77	20	17.9	4, 739
Road forks	38	00	17.6	77	19	52. 1	4,739 5,130
				1			· ·

Magnetic declination near south border of quadrangle, 5° 15' W.

BOYKINS QUADRANGLE.

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

			<u> </u>				· · · · · · · · · · · · · · · · · · ·
Station.	I	atit	ude.	Ĺ	ongi	itude.	Distance between stations.
Center of small culvert crossing road, about 168 feet south of	•	,	"		,	,,	Feet.
G. W. Thomas's mail box, on west edge of road	36 36	36 35	42. 2 56. 2	77	00 00	19. 3 42. 0	5,007
Center of small bridge over drainage ditch Sunbeam, southeast corner of crossroads, 10 feet from corner fence post diagonally opposite Drake's store.	36	35	16. 4	77	01	41.7	6, 317
South along highways near east borde	r of	qua	adrang	le.			
Story, middle of railroad crossing, south rail, marked by nail							1
driven in plank. Center of road, at north end of bridge. T road, center of. T road, center of Franklin-Courtland road, 28 feet east of east end of bridge.	36 36	42 41	17. 4 24. 6	77	00 01	42. 1 02. 7	5, 594
T road, center of Franklin-Courtland road, 28 feet east of east	36	41	16. 2	77	01	16.9	1,438
end of bridge T road northwest. T road east, 7 feet from fence and 15 feet southwest of mail box 62.	30	40 40 39	59. 3 04. 1 29. 5	77 77 77	00 00 00	50. 9 36. 0 18. 0	2,726 5,715 3,796
				ļ.,			9,.00
North along highways and r	ailw	ay.					·
Southwest angle of triangle where three roads meet, near C. Holland's house.	36	33	07. 4	77	01	22. 7	
Beeman's Creek, south side of river, east edge of road at flour mill, 14 feet from dam gate	36	33	11.7	77	01	08. 2	1, 262
West side of wheel track 36 feet northwest of T H Edson's	36	33	53. 2	77	01	08. 7	4, 192
mail box T road southeast, center line of road east and west Sunbeam, in front of A. Storey's house, center of road	36	34 34	38. 9 53. 3	77	01 01	15. 2 22. 9	4, 655 1, 587
Sunbeam, in front of A. Storey's house, center of road. Sunbeam, about 1,000 feet northwest of school, crossroads at store. Sunbeam, 90 feet southeast of church door, T road southwest. Center of small culvert, 382 feet south of R. B. Gray's house. Wordown 2 miles west of in troat of abusts, center of greeneds.	36	35	16.6	77	01	42.0	2,823
Sunbeam, 90 feet southeast of church door, T road southwest	36 36	35 36	36. 5 36. 0	77	01 02	58. 2 36. 1	2, 408 6, 771
	36	37	00.0	77	02	46. 0	2,550
T road west, about 8 feet from a point 10 feet south of J. T. Barrett's mail box.	36	37	57. 7	77	02	59.6	5,946
Road crossing, over fourth cross tie from first rail joint west of, north rail of Seaboard Air Line Ry	36	38	29. 4	77	03	11.2	3,338
Milepost 44, north track opposite. Hand station, about 30 feet southwest of corner of depot, in corner of field; iron post stamped "Prim. Trav. Sta. No. 9P,	36	38	32. 3	77	02	12. 0	4, 831
1918"	36 36	38 38	32. 7 38. 7	77	01 01	50. 5 08. 0	1,753 3,514
Milepost 43, north rail opposite. Delaware, 0.5 mile west of, west end of second bridge west of, north rail.	36	38	43.6	77	00	51. 4	1,443
north rail. Delaware, west end of bridge over Nottoway River Milepost 42, north rail opposite	36 36	38	54. 3 56. 7	77 77	00 00	15. 3 07. 3	3, 138 697
Magnetic declination near east border of quadrang	gle,	4.5	° W.	<u> </u>			
Southeast along Seaboard Air Line Ry. (Ву І	I. J	. Switz	er i	n 191	l 8.)	
Prim. Trav. Sta. No. 5, 1918 (previously listed)	36	34	13. 5	177	14	57. 4	
Stone culvert	36 36	34 34	25. 3 34. 4	77	14 13	30. 7 57. 2	2,480 2,884 3,315
Farm-road crossing, south rail.	36		43. 9	77	13	18. 3	3,315
30 feet north of north rail of Roanoke & Tar River Branch,							
30 feet north of north rail of Roanoke & Tar River Branch, west of road crossing; iron post stamped "Prim. Trav. Sta. No. 14, 1918". Azimuth to top of steeple, 279° 57′ 10′′	36	34	59.6	77	12	11.9	5,644
Road crossing, west rail Farm-road crossing, west rail State-line post, west rail opposite	36 36	34 33	07. 1 38. 1	77	12 12	09. 7 04. 8	5,307 2,964
State-line post, west rail opposite	36	32	43. 2	77		55.6	5, 598
	l			Į			1

BOYKINS QUADRANGLE—Continued.

East along Southern Ry. in north part of quadrangle. (By J. J. Phelan in 1917.)

			between stations.
, ,,		, ,,	Feet.
13 05.7 13 01.7		14 39.0	2 222
2 59.1	77	13 43.3	2, 222 2, 363 1, 842
2 53.4	77		1,842
	77	12 39.3	3, 566 1, 672
2 40.5	77		1,548
			3,726 5,200
3 10.2	77	10 02.0	1,386
3 04.7	111	09 40.5	1,831
			2,777
			1,651 2,896
2 53.4	77 (07 25.5	3,804
	77	07 07.4	1,471
2 57.7	77 (06 02.7	2, 293
			2, 987 2, 293 1, 895 3, 589
			1,264
3 04.3	77 (04 07.9	2,633
3 05.1	77	03 53.8	1,148
2 57.6	77 (03 23.6	1 2.568
			2,725 4,812
2 18.8	77 (00 47.8	5,748
2 17.4	1111	JO 42.1	482
			İ
2 17.3	77 (00 42.4	28
1 12.6	77 0	2 11.4	
4 17.9	77 (22.5	1,050
3 28 9	77 (Y3 16 Q	6,642
3 25.2	77 C	3 22.9	612
3 05.1	77 (3 53.8	3,235
0 ,			
	~~ .	0 10 0	
43.4			4,270
1			1
15.3			3,258 3,414
ł			
30.6	77 1	4 09.3	3,105
18.1	77 1	4 16.1	1,380
50.4	77 1	3 43.3	3,873
ŀ			i
33.7	77 1	3 41.2	1,705
′			I
			1 ~ -
3 47.6	77 1 77 1		5,860
3 47.6 3 29.4 3 01.2	77 1 77 1	2 45.5 2 32.8	2,091 3,039
3 47.6 3 29.4	77 1 77 1 77 1	2 45.5 2 32.8	5,860 2,091 3,039 1,893 4,730
	12 59. 1 12 53. 4 12 45. 4 12 45. 4 12 49. 9 12 49. 4 13 10. 2 13 04. 7 12 58. 9 12 55. 7 12 55. 7 12 55. 7 12 55. 7 12 55. 7 12 55. 7 12 55. 7 12 55. 7 12 55. 6 13 00. 4 13 05. 1 14 12. 6 17. 9 18 28. 9 18 29. 17 19 3 28. 9 19 3 25. 2 17 4 17 9 18 28. 9 19 3 28. 9 19 3 25. 2 17 4 17 19 3 28. 9 19 3 25. 2 17 19 3 28. 9 19 3 25. 2 10 5. 1 10 10 10 10 10 10 10 10 10 10 10 10 10 1	12 59. 1 77 12 45. 0 77 12 45. 0 77 12 39. 9 77 12 49. 4 77 13 10. 2 77 13 10. 2 77 13 10. 2 77 13 10. 2 77 14 15 15 15 7 17 12 55. 7 77 13 04. 3 77 14 17. 9 77 15 17 18 17 16 18 17 17 18 18 18 18 18 18 18 18 18 18 18 18 18	12 59.1 77 13 43.3 12 39.3 77 13 21.8 12 45.0 77 12 39.3 12 39.9 77 12 19.8 22 49.5 77 12 00.8 24 49.5 77 12 00.8 3 10.2 77 10 18.9 3 10.2 77 10 02.0 3 04.7 77 09 40.5 12 58.9 77 09 07.2 12 55.7 77 08 47.3 12 55.4 77 07 07.4 12 56.7 77 06 30.8 12 53.4 77 07 25.5 17 08 12.1 12 55.7 77 08 47.3 10 22 54.6 77 07 07.4 12 56.7 77 06 02.7 17 06 30.8 17 07 07 07.4 18 18 17 07 07.4 18 18 17 07 07.4 19 18 18 18 18 18 18 18 18 18 18 18 18 18

BOYKINS QUADRANGLE—Continued. East through center of quadrangle along Seaboard Air Line Ry.

Station.	Latitude.	Longitude.	Distance between stations.
Boykins, opposite depot, 2 feet west of north rail Boykins, about 0.75 mile north of, center of railroad crossing. Milepost 53, north railin front of. Milepost 52, north railin front of. Railroad crossing, center of, north rail Milepost 50, north railin front of. Milepost 50, north railin front of. Newsoms, 0.5 milesouth of, center of railroad crossing, north rail. Newsoms, in front of milepost 49, north rail. Railroad crossing, center of, north rail Milepost 47, north railin front of. Gum post office, railroad crossing at, north rail Milepost 45, north railin front of. Milepost 45, north railin front of. Handsom post office, railroad crossing at. From Newsoms northwest and southwest alor	36 35 27.9 36 35 42.4 36 36 04.3 36 36 21.3 36 37 04.7 36 37 21.2 36 37 31.7 36 37 48.2 36 38 01.1 36 38 06.4 36 38 29.4	o , , ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Feet. 3,698 2,274 5,267 3,025 2,252 5,276 2,903 2,371 5,859 4,695 1,906 3,369 5,266 4,45
Newsoms, 0.25 mile north of, road forks to west: Road forks east Small bridge, south end of T road east, near A. J. Harris's mail box. Bridge, south end of T road south Prim. Trav. Sta. No. 14 Boykins, first wooden bridge north of, on road to Courtland, north end of Road forks, at top of hill Right-angle turn in road near milepost 1 Milepost 2 Road forks, front of church Milepost 3 Milepost 4 Milepost 4 Milepost 5 Road north into woods, 75 feet east of, edge of road, near field, 12 feet west of large cedar tree Road forks, at J. H. Pope's mail box, No. 18	36 37 34.0 36 37 56.2 36 38 00.1 36 38 33.9 36 38 50.6 36 39 23.0 36 34 59.6 36 35 30.4 36 35 30.4 36 35 30.4 36 35 30.4 36 35 30.5 36 37 00.2 36 37 30.5 36 37 37 38 30.5	77 07 36.3 77 07 38.3 77 07 08 13.2 77 08 41.8 77 08 42.3 77 09 19.2 77 12 11.9 77 12 02.1 77 11 55.4 77 11 28.0 77 12 00.4 77 11 28.0 77 10 20.1 77 10 50.1	2,792 1,422 4,135 1,698 4,451 1,898 1,477 2,300 5,014 855 3,643 5,640 5,051 2,558 1,035

Magnetic declination for south border of quadrangle, 4° 14′ W.; for west border of quadrangle, 4° 02′ W.; for center of quadrangle, 4° 16′ W.

CAMP ABRAHAM EUSTIS.

For positions see Yorktown quadrangle, pages 499 to 501.

CAMP HUMPHREYS, INCLUDING PARTS OF FAIRFAX, INDIAN HEAD, OCCOQUAN, AND WASHINGTON QUADRANGLES.

From Mount Vernon flag pole northeast to Dunn triangulation station. (By School of Topography, U. S. Army, in 1918).

Station. Latitude.		L	ongi	Distance between stations.		
nt Vernon flag pole (U. S. Coast and Goedetic Survey) 38 42 27.17				,	"	Feet.
. 38	42	27.17	.77	05	10.62	
38	43	57.17	77	05	33.93	9,295
	44	20.86	77	05	20.09	2,636
38 38 38	44 44 44	36.06 35.51 54.77	77 77 77	04 04 03	53.17 37.88 47.00	2,630 1,212 4,480
	45	12.54	77	03	54.79	1,888
	38 38 38 38 38 38 38	38 42 38 43 38 44 38 44 38 44	38 42 27.17 38 43 57.17 38 44 20.86 38 44 36.06 38 44 35.51 38 44 54.77	38 42 27.17 .77 38 43 57.17 .77 38 44 20.86 .77 38 44 36.06 .77 38 44 35.51 .77 38 44 54.77 .77	38 42 27.17 77 05 38 43 57.17 77 05 38 43 57.17 77 05 38 44 20.86 77 05 38 44 36.06 77 04 38 44 35.51 77 04 38 44 54.77 77 03	38 42 27.17 77 05 10.62 38 43 57.17 77 05 33.93 38 44 20.86 77 05 20.09 38 44 36.06 77 04 53.17 38 44 35.51 77 04 37.88 38 44 54.77 77 03 47.00

From Mount Vernon flag pole to Gunston Hall.

Station.		Station. Latitude.				L	∡ongitude.		Distance between stations.
Mount Vernon flag pole (U. S. Coast and Geodetic Survey sta-		,	,,	۰	,	,,	Feet.		
tion)	38	42	27.17	77	05	10,64	1		
fount Vernon station, 0.1 mile northwest of, center of concrete							,		
bridge carrying electric railroad over highway	38	42	40.74	77	05	15.83	1,438		
northwest corner of concrete culvert; chiseled square	38	43	01.29	77	05	46.63	3,208		
road opposite west gate to Mount Vernon estate		42	46.94	77	05		1,460		
Froad south	38	42	57.85	77	06	33.82	3,747		
way	38	43	05.75	77	07	06.22	2,690		
enter of concrete bridge on Washington and Richmond High-									
way, 0.12 mile southwest to T road south	38	43	19.69	77	07	20.00	1,784		
Froad (lane) north	38	43	13.40	77	07	32.83	1,201		
Woodlawn Mansion; bronze tablet	38	42	52.79	77	08	20.77			
road north, about 300 feet west of, at Woodlawn Church	38	42	48.51	77	08	27.56			
ntersection of Washington and Richmond Highway and	30	44	40. 31	"	vo	21.50			
cement road leading into Camp Humphreys	38	42	40.52	77	08	37, 10	1,107		
Frestle 5, Camp A. A. Humphreys R. R., center of road	38		31.86	77	09	19.32	3,461		
Accotink village, at T roads, east end of south wall of concrete				١			",""		
culvert; bronze tablet of U. S. Army	38	42	30.93	77	09	33.79	1,151		
Accoting Creek, east end of steel bridge over, on Washington	١								
and Richmond Highway	38	42	17.69	77	09	57.27	2,296		
Road forks, one leads south to Pohick Bay	38	41	54.31	77	10	16. 16	2,799		
Fork of Washington and Richmond Highway and Lewis Chapel		40	00 11		10	40.00	0 700		
road, about 1 mile southeast of Pohick Church	38	42	03.11	77	10	46.03	2,532		
headquarters	38	42	05.61	77	11	49.40	5,033		
Pohick Creek, south end of steel highway bridge over	38		53.34	77	12	05.89	1,804		
Road fork, 0.5 mile southwest of Pohick Creek highway bridge	38		33.01	77	12	21.17	2,388		
Lewis Chapel crossroads, about 50 feet southwest of, on concrete	30	41	33. 01	l ''	12	21.11	2,000		
well platform; bronze tablet of U.S. Army	38	41	13.94	77	12	31.73	2,103		
Road forks, 0.3 mile south of Lewis Chapel.	38		58.02	77	12	32.11	1,611		
Lebanon School, center of road opposite.	38		41.65	77		09.93	2,415		
Froad northeast (private road)		40	20. 21	77		34.84	3,528		
Froad northeast (private road)	38	40	07.43	77	īī	13.97	2,099		
in road	38	40	17.65	77	10	49.60	2,192		
Road forks, left-hand road leads to Gunston Hall; hub at station 83	38	40	04.67	77	10	11.21	3,316		
Road fork, 0.2 mile northwest of Gunston Hall, on north end of	ĺ						· ·		
concrete culvert; chiseled square	38	39	57.89	77	09	47.90	1,971		
Gunston Hall, square tower (U.S. Coast and Geodetic Survey									
position)	38	39	50.60	77	09	37.52	1,105		

Note.—The tower on Gunston Hall has been removed; point tied to was the approximate center of house.

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From point 1 mile southeast of Pohick Church via Washington and Richmond Highway and Richmond, Fredericksburg & Potomac R. R. to Accotink station.

Fork of Washington and Richmond Highway and Lewis Chapel							[
road, about 1 mile southeast of Pohick Church	38	42	03.11	77	10	46.03	
Pohick Church, about 200 feet east of; 25 feet north of intersection of crossroads, in edge of field; concrete post, bronze tablet	38	42	33.02	77	11	36.06	
Road forks, 0.2 mile northwest of Pohick Church	38	42	36. 25	77	11	50.36	1,183
Pohick Creek, east end of Washington and Richmond Highway steel bridge.	38	42	12.96	77	12	51.23	5,369
Lorton station, about 600 feet north of, in east side of south abut- ment of Richmond, Fredericksburg & Potomac R. R. bridge							
over Washington and Richmond Highway; bronze tablet of U. S. Army.	38	42	20.04	77	13	16.44	2,120
Pohick Creek, about 10 feet from south end of Richmond, Fredericksburg & Potomac R. R. bridge, on center line of south-							
bound track	38	42			13		2,750
Pohick station, opposite, center of southbound track	38	43	09 85	77	12	35.96	3,314
Accotink Creek, center of Richmond, Fredericksburg & Potomac R. R. bridge, on southbound track	38	43	22,42	77	12	15.72	2,047
Center of northbound track, at road crossing	38		37.77				3,500
Richmond, Fredericksburg & Potomac R. R. northbound			00.10			10.00	2 400
track, opposite tangent on Camp A. A. Humphreys R. R Accotink station, opposite operator's window, center of north-	38	44	06.12	177	11	12.90	3,408
bound track	38	44	16.95	77	11	09.81	1,120
Accotink station, about 300 feet north of, south end of Rich-				ļ			1
mond, Fredericksburg & Potomac R. R. trestle; bronze	38	44	19.46	77	11	09, 00	260
tablet of U. S. Army	30	-112	10. 10	'	11		200

From Pohick Church via highway to Potters Hill crossroads.

From Ponick Church via highway to Pott	ers	—	Crossr	Jau	s. 		
Station.	I	ætit	ude.	L	ongi	tude.	Distance between stations.
	•	,	,,		,	,,	Feet.
Pohick Church crossroads Pohick Church, 0.5 mile north of, in front of F. Nevitt's resi-	38	42	32.72	77	11	36.10	
Polick Church, 0.5 mile north of, in front of F. Nevitt's residence, in root of cedar tree; nail.	38	42	58, 92	77	11	40.62	2,676
A contint Charle contagnation of atom highway bridge	38	43	13.73	77	11	27.98	1,803
Center of Camp A. A. Humphreys R. R. crossing. Crossroads, at top of hill.	38 38	43 43	30. 49 49. 58	77	10 10	57.60 29.74	2,947 2,962
I road, road to west leading to Account station	38	43	59.43	77	10	17.28	1,376
Center of highway over concrete culvert	38	44	17. 31	77	10	03.66	2,109
Potters Hill crossroads, four corners, Hawkins Prim. Trav. Sta. (See Bull. 551, p. 327)	38	44	28. 80	77	09	42.30	2,055
From Potters Hill crossroads to Accoting	Vil	lage	•				
Potters Hill crossroads (described above).	38	44	28, 80	77	09	42.30	
Potters Hill crossroads (described above). Road forks, 0.45 mile south of Potters Hill School	38	44	07.88	77	09	39.00	2, 136
T road west	38	43 43	48. 50 18. 86	77	09 09	40.68 35.59	1,962 3,023
T road west. Trestle 4, on Camp A. A. Humphreys R. R., about 100 feet north of small creek.				1			1 .
of small creek. Accotink village, east end of south wall of concrete culvert;	38	42	49. 56	77	09	35.06	2,971
chiseled square	38	42	30.93	77	09	33. 79	1,876
From Potters Hill crossroads via Woodlawn Road to W	ashi	ngt	on and	Ric	hmc	nd hig	hway.
Potters Hill crossroads (described above)	38	44	28, 80	77	09	42.30	
Woodlawn road, at angle	1 38	43	56. 72	77	09	21. 53	3,657
Road forks. Center of wooden culvert across road to spring	38 38	43 43	48. 31 30. 49	77	09 08	02. 24 50. 03	1,755 2,052
Crossroads at church	38	43	12.60	77	08	40.47	1,967
T road north, about 300 feet west of Woodlawn Church, on Washington and Richmond Highway	38	42	48. 51	77	08	27. 56	
From Washington and Richmond Highway south along Bel	voir	Per	insula	to o	ld I	airfax	Landing.
T road north, about 300 feet west of Woodlawn Church, on	Π						
Washington and Richmond Highway	38	42	48.51	77	08	27.56	
Camp Humphreys, north end of base line of camp coordinate system.	38	42	37. 25	77	08	50.66	
Camp Humphreys, at north edge of east and west concrete road	l						
along north side of north section; iron bolt	38	41	37.01	77	08	19. 51	6,577
pipe; bronze tablet (Spur line. This point is unchecked.)	38	41	35.18	77	08	30.01	853
Camp Humphreys, at north edge of east and west concrete road along north side of north section; iron bolt	20	41	37.01	77	08	19. 51	853
Camp Humphreys, north edge of east and west road along south	38	41	37.01	'''	UO	15. 51	. 555
side of H section; hub	38	41	09.49	77	08	05.34	3,005
Camp Humphreys, approximately on base line, in oak stump;	38	40	51.34	77	07	55.73	1,990
Camp Humphreys, south end of base line of camp coordinate system (station .0+00)	38	40	37. 90	77	07	48. 88	
Intersection of road to Belvoir Dock and road to upper (new)	l						1,466
	38	40	53.07	77	07	46. 10	1,549
Forks of road to Belvoir Dock and old road to old watch house, at Fairfax Landing. White house, the farther south of two, chimney of (U.S.C. & G.S. position).	38	41	03.30	77	07	49.57	1,069
White house, the farther south of two, chimney of (U.S.C. &	1	41	00.00	77	07	28. 34	1 702
G. S. postdon)	38	41	00.86	77	07	20.34	1,703
From Accotink station along highways sout	heas	t to	Accot	ink v	rilla	ge.	
Richmond, Fredericksburg & Potomac Ry. track, 1,120 feet south of Accotink station, opposite tangent on Camp A. A.							
Humphreys R. R. Crossroads, 0.2 mile southeast of Accotink station.	38	44	06.12	77	11	12.90	
Crossroads, 0.2 mile southeast of Accotink station	38 38	44 44	04.69	77	11	03.58	750 2 630
Top of hill, west side of road, in stump; nail, painted "P. T.	38	44	00. 10	77	10	.30.89	2,630
Pt. No. 1"	38	4 3	35. 22	77	10	29.63	2, 515
Camp A. A. Humphreys R. R., 100 feet southeast of crossing, in front of W. T. Jones's residence, in root of oak tree, painted							
"U. S. A. 71.3 B. M.;" copper nail	38	43	12.30	77	10	13.59	2,641
Center of road, over concrete culvert	38	42	46. 57	77	09	36.94	3,896
culvert; chiseled square	38	42	30. 93	77	09	33.79	1,599
							!

From U. S. Geological Survey point Hawkins near Accotink station, on Southern Ry., to junction of telegraph and gravel roads. (By School of Topography, U. S. Army, in 1918.)

Station.	Ţ	atit	ude.	L	ongi	itude.	Distance between stations.
Grade crossing Second-class road crossing. Crossing of culvert and railroad Franconia station, second-class road crossing. I road at church. Concrete culvert, center line. Prim. Trav. Sta. No. 3, in concrete culvert, at side of road Intersection of T road and telegraph road. Concrete culvert, bench mark 970. Prim. Trav. Sta. No. 5, in concrete culvert, at side of road, near intersection of telegraph and gravel roads; chiseled square	38 38 38 38 38 38 38 38	44 45 46 46 46 47 47 48 46	56. 9 55. 88 02. 75 10. 63 28. 51 11. 49	° 77 77 77 77 77 77 77 77 77 77 77	09 08 07 07 06	09. 49 42. 07 48. 28 23. 07 46. 62 55. 63 55. 63 41. 76 06. 97	Feet. 6,336,599 5,464 2,888 4,097 2,910 5,240 2,641 1,225
From Potters Hill crossroads, U. S. Geological Survey po- and gravel roads.	nt I	Iaw	kins, t	o ju	net	lon of	telegraph
Four corners, 100 feet southeast to schoolhouse, 220 feet west to house (U. S. G. S. point Bull. 551, p. 327). Road to right to gravel pit. Concrete bridge, center line. Concrete bridge. Concrete culvert, center of, in front of tenant house belonging to Hayfield mansion. Road left to gravel pit. Prim. Trav. Sta. No. 4, nail in concrete culvert, 750 feet north of Hayfield mansion. Right-hand side of road, 693.5 feet from concrete culvert; nail in root of cedar tree. Wood culvert.	38 38 38 38 38 38	44 44 45 45 45 45	13.72 23.34	77 77 77 77 77 77 77	09 09 08 08 08 08	42. 3 27. 77 02. 67 37. 40 27. 10 18. 95 14. 34 09. 64 53. 58	1, 250 2, 047 2, 529 1, 285 1, 221 1,040 693 1, 871
From intersection of telegraph and gravel roads (Prim.	Tra	v. S	ta. No.	5) t	o G	um Spr	ings.
Prim. Trav. Sta. No. 6, 6 feet from oak tree which is bench mark 48.9 Wooden bridge. Prim. Trav. Sta. No. 7, chiseled square on concrete culvert, at Troad west, 1.2 miles from Gum Springs Church Concrete culvert. Nail in oak stump, on left-hand side of road, between telegraph posts 188 and 189, 30 feet from 189 Gum Springs, at junction of concrete road and Richmond and Washington Highway, near colored church; nail. Gum Springs, Prim. Trav. Sta. No. 2, 70 feet northeast of road	38 38 38 38	45 45 45 44 44	41. 48 37. 41 33. 36 04. 76 40. 62 36. 47 20. 86	77 77 77 77 77	-	23. 94 46. 08 08. 62 04. 70 50. 80 52. 95 20. 09	4,718 3,028 2,993 2,907 2,677 448 2,672

From Mount Vernon to Hunter via Washington-Virginia Ry. (electric) and from Hunter to Fort Hunt via highway. (By H. S. Senseney in 1920.)

Mount Vernon flag pole, U. S. Coast and Geodetic Survey triangulation station	38	42	27.17	77	05	10.64	
Second-class road crossing, 2 feet west of telephone pole, at northwest corner of crossing; copper nail in hub, marked "P. T. 18".	20	49	55.54	77	ΩE	06,40	9 000
Miller, center of track, in front of station, copper nail in tie,	30	44	30.34	l ''	w	00.40	2,890
marked "P. T. 2 S."	38	43	02.59	77	04	40.73	2, 155
Riverside, center of track in front of station; copper nail in tie, marked "P. T. 3 S."	38	43	08.89	77	04	26.87	1,269
Second-class road crossing, center of track; copper nail, marked				1			1
"P. T. 48."	38	43	12.31	77	04	19.33	691
Hunter, center of road crossing; copper nail, marked "P. T. 5 S.".	38	43	22.02	77	03	53.38	2,279
T road west, in southwest corner, in root of cedar tree; copper	İ						,
nail, marked "P. T. 36 S."	38	43	19.11	77	03	39.81	1,115
Fort Hunt, on north side of road, at entrance, southwest corner of base of gate post; chiseled square, marked "P. T.	1	•					'
37 8."	38	43	07.30	77	03	27, 79	1,529
Fort Hunt, flag pole, U. S. Coast and Geodetic Survey triangu-	••		000	١	•	2	1 2,025
lation station	38	42	56.46	77	03	06.59	2,006
	1			ļ			, '

From Hunter to New Alexandria via Washington-Virginia Ry. (electric).

Station.	I	atit	ude.	L	ongi	tude.	Distance between stations.
Hunter, "Prim. Trav. Sta. 5 S." (previously described) North Mount Vernon, 98 feet west of road crossing, 15 feet south of center of track, 17 feet north of center of road; copper nail in hub, marked "P. T. 6 S." (Prim. Trav. Sta. No. 1	38	43	,, 22.02	77	03	53.38	Feet.
to be set here)	38	43	29.71	77	03	35.63	1,608
Grassymead, in front of station, center of track, marked "P. T. 7 S."	38	43	39.10	77	03	19.05	1,621
Snowdons, 30 feet south of road crossing, in east end of tie; copper nail, marked "P. T. 8 S."	38	43	55.94	77	02	53.35	2,656
Herbert Springs, center of track, at road crossing; copper nail, marked "P. T. 9 S."	38	44	07.04	77	02	48.77	1,180
Arcturus, center of track, in front of station; copper nail, marked	38	44	14.41	77	02	48.98	747
Wellington, center of track, at road crossing; copper nail, marked "P. T. 11 S."	38	44	25.68	77	02	51.54	
Wellington Villa, center of track, at road crossing; copper nail							1,158
marked "P. T. 12 S." Aled, center of track, in front of station; copper nail, marked	38	44	48.20	77	02	56.69	2,315
"P. T. 13 S." Warwick, 34 feet south of southeast corner of station, 23 feet west of west rail; copper nail in hub, marked "P. T. 14 S."	38	44	55.41	77	02	58.33	740
(Prim. Trav. Sta. No. 2 to be set here)	38	45	06.64	77	03	01.20	1,160
"P. T. 24 S".	38	45	33.44	77	02	57.80	2,724
New Alexandria, at south end of tangent south of, center of track, between trolley poles; copper nail, marked "P. T. 25 S."	38	46	15.00	77	03	28. 20	4,846
6 feet west of poplar tree; copper nail in hub, marked "P. T. 26 S." (Prim. Trav. Sta. No. 3 to be set here)	38	46	49.50	77	03	23.48	3,510
West edge of road, 34 feet south of concrete culvert; copper nail, marked "P. T. 27 S." Road forks, on south edge of concrete road, 31 feet east of tele-	38	46	47.61	77	03	47.41	1,905
Road forks, on south edge of concrete road, 31 feet east of tele- phone pole; marked "P. T. 23 S."	38	47	28. 56	77	03	38.32	4,204
From Gum Springs to New Alexands	ia v	a h	ighway	•			
Gum Springs, 70 feet northeast of fork of Washington and Rich-							
mond Highway and Mount Vernon Boulevard, south end of	38	44	20.86	77	05	20.09	
watering trough; chiseled square. Gum Springs Church, 35 feet northeast of, in root of oak tree; copper nail, marked "P. T. 18 S."	38		37. 50	77	04	52. 58	2,753
Front of red barn, west side of road, in root of big oak tree; copper nail, marked "P. T. 198."	l						1
T road west, east end of culvert, at northwest corner; bronze tablet, stamped "P. T. 23 S."	38	45	15. 50	77	05	11.60	4,128
East edge of concrete road, at two mail boxes; chiscled square,	38	45	33, 22	77	05	08.60	1,808
marked "P. T. 15 S."	38	45	47. 22	77	05	04.09	1,463
Crossroads, in southwest corner, I foot east of telephone pole, in hub; copper nail, marked "P. T. 16 S.". Telephono pole 115, west edge of concrete road; chiseled square,	38	45	57. 08	77	05	03. 22	998
marked "P. T. 17 S."	38	46	20.84	77	04	53. 68	2,520
Crossroads, at southwest corner, at base of telephone pole, in hub; copper nail, marked "P. T. 21 S."	38	46	52.66	77	04	45. 42	3,284
Telephone pole 64, 24 feet south of, 2 feet west of west edge of concrete road; copper nail, marked "P. T. 22 S."	38	47	15.60	77	04	01.80	4, 161
Road fork, 31 feet east of telephone pole, on south edge of concrete road; chiseled cross, marked "P. T. 23 S."	38	47	28. 56	77	03	38. 32	2,275
From Gum Springs along highwa	y to	Hu	nter.	•			'
Prim. Trav. Sta. 18.	38	44	37. 50	77	04	52. 58	Ī
T road south, at southeast corner, 6 feet west of corner fence post, in hub; copper pail marked "P T 30 S"	38		35. 43	77			1,194
Bend in road, on east side of road, in root of tree; copper nail,	38			77			
T road south, in southwest corner of, in root of small oak tree;				1			2,282
T road south, in southwest corner of, in root of small oak tree; copper nail, marked "P. T. 32 S." Lane west to house, on east side of road, in root of pine tree; copper nail, marked "P. T. 33 S."	38			77	03	58.68	2,100
copper nail, marked "P. T. 33 S." T road west, in southwest corner, in root of cedar tree: copper	. 38	43	59.71	77	04	00. 22	939
T road west, in southwest corner, in root of cedar tree; copper nail, marked "P. T. 34 S." Road forks, on west side of road, in root of pine tree; copper nail, marked "P. T. 35 S."	. 38	43	35. 38	77	04	06.09	2,508
marked "P. T. 35 S."	38	43 43	25. 26 22. 02	77		08. 25 53. 38	1,040
Prim. Trav. Sta. 5	1 30	40	22.04	\ ''	vo	JU, J8	1,223

Southeast along highway to Warwick.

. Station.	1	atit	ude.	L	ongi	tude.	Distance between stations.
Prim. Trav. Sta. 16	。 38	, 45	,, 57. 08	77	, 05	03. 22	Feet.
Prim. Trav. Sta. 16. West side of road, 120 feet south of red gate, in root of oak tree; copper nail, marked "P. T. 38 S." South side of road, top of hill, in root of locust tree; copper nail,	38	45	38.01	77	04	26.37	3,498
marked "P. T. 39 S."	38	45	14, 61	77	03	57.35	3,299
North side of road, 80 feet west of iron gate, in root of oak tree; copper nail, marked "P. T. 40 S."	38	44	59.18	77	03	42.01	1,977
Road forks, on concrete culvert south of; chiseled cross, marked "P. T. 41 S.".	38	45	10.40	77	03	27.34	1,624
Prim. Trav. Sta. 14, Warwick	38	45	06.64	77	03	01. 20	2,105
From Pohick station north along highway to Barker's cro U. S. Army, in 1918.	ss r o	ads	. (Ву	Sch	ool	of To	ography,
Intersection of abaudoned road and main road	38	43	25. 40	77	12	34.95	
Prim. Trav. Sta. No. 1, nail on east side of road, at T road to left; _in root of 24-inch jack pine tree	38	43	41.89	77	12	35. 44	1,668
T road west, in center of road	38 38	44 44	18.50 27.33	77	12 12	41. 22 43. 40	3,733 909
Prim. Trav. Sta. No. 2, in curve of road, in stump 1 foot high;	38	44	54. 24	77	12	44. 87	2,725
Barker's crossroads, near Davis's store, intersection of roads; Prim. Trav. Sta. No. 3 Pohick Creek, middle of road crossing in T road to farmhouse. Road intersection, T road to left	38	45	34. 08	77	13	04. 80	4,328
Pohick Creek, middle of road crossing in T road to farmhouse	38 38	45 45	25. 84 23. 86	77	13 13	36. 12 48. 23	2,618 980
Road intersection, T road to left.	38	45	24.69	77	14	00. 53	976
Second-class private road to left. Middle Run, center. Prim. Trav. Sta. No. 1, 50 feet east of intersection of main road and second-class road to Pohick School. Small culvert. Private road to left. Second-class abandoned road to south. Prim. Trav. Sta. No. 2, 8 feet east of center line of road, 7 feet west of blazed 10-inch black-oak tree: hub painted "P. T. No. 2" Prim. Trav. Sta. No. 3, west side of road, chiseled cross on concrete post, "DCR 1914." painted "P. T. N. 3" Intersection of second-class road to left. Second-class road to right. Intersection of pulp-wood road to left, east side of road, in root of 14-inch white-oak tree; nail. Prim. Trav. Sta. No. 4, iron bridge over Pohick Creek, on north wing wall; chiseled cross painted "P. T. No. 4" Pohick station, road crossing, at end of bridge.	38 38 38 38 38 38 38 38 38 38 38 38	45 45 44 44 44 44 43 43 43 43 43 43	11. 41 01. 29 36. 79 28. 74 25. 23 14. 77 09. 90 54. 79 50. 18 24. 81 18. 51 12. 03 12. 31	77 77 77 77 77 77 77 77 77 77	13 14 13 13 13 13 13 13 12 12 12	55. 47 02. 40 04. 13 56. 16 52. 60 43. 26 33. 27 18. 29 15. 99 04. 70 54. 22 43. 14 . 34. 65	1,400 1,162 2,482 1,030 453 1,292 933 1,937 500 2,719 1,050
Along highways from Pohick Church southeast to rifle ran Army, in 1918.)	ge.	(B)	7 Schoo	ol o	T	pogra	phy, U.S.
Prim. Trav. Sta. No. 1, nail in saddle of twin willow trees, 50 feet east of barn, painted "P. T. No. 1"	38	42	03. 06	77	11	47. 51	ļ
Nail in stake, 1 foot from trunk of 10-inch walnut tree, in front of Mrs. Grace Merchant's house, near rifle range	38	41	21.48	77	11	36. 23	4, 298
Prim. Trav. Sta. No. 2, stake 1 foot from trunk of 15-inch cedar tree, 1,800 feet west of brick house, on S. Shephard's farm Prim. Trav. Sta. No. 3, nail in root of 9-inch cedar tree, on left	38	41	14.90	77	10	39. 11	4, 579
side of road, 1,000 feet northwest of S. Shepard's house, painted "P. T. No. 3".	1			1			

CAMP HUMPHREYS, INCLUDING PARTS OF FAIRFAX, INDIAN HEAD, OCCOQUAN, AND WASHINGTON QUADRANGLES—Continued.

From Shiloh Church via Sycamore Point to Sandy Point.

From Sunon Church via Sycamore Ford		Sai	luy Po.				
Station.	I	atit	ude.	L	ongi	tude.	Distance between stations.
	-	_,			,		Foot
Wood culvert	38	39	42. 12	77	09	53. 59	Feet. 2,674
Gunston Hall, half a mile south of; concrete post east side of road forks, at angle in fence line; bronze tablet	38	39	28. 97	77	09	42.64	l
Nail in root of 12-inch blazed oak tree, on west side of road, 100	38	39	08. 95	77	09	13. 37	
Hub at northwest corner of crossroads	38	38	47. 26	77	08	55. 77	2,602
Prim. Trav. Sta. No. 2, on stump of 6-inch maple tree, 10 feet north of center line of road, 5 feet south of blazed maple tree,							
marked "Sta. No. 20" Nail in 3-inch pine stump, 8 feet north of center of roads	38 38	38 38	43. 99 45. 00	77 77	09 09	06. 92 27. 45	944 1,630
Root of 30-inch oak tree, 4 feet south of road, blazed and marked	1		41, 22			31, 13	1 .
"Sta. 32" Prim. Trav. Sta. No. 3, nail in root of 24-inch pine tree, north	38	38		77	09		480
side of road, blazed and marked "Sta. 38"	38	38 38	36.00 29.37	77	09 10	42.38 03.71	1,040 1,820
Prim. Trav. Sta. No. 5, painted, nail in root of 10-inch pine tree,	38	38	07. 52	77	10	23, 47	
on south side of road. Prim. Trav. Sta. No. 6, nail in hub at intersection of Sycamore.							2,711
and Sandy Point roads	38	38	40.67	77	10	25.00	2,719
vitrified pipe set in cement, 5 feet from 12-inch pine tree and 4 feet from edge of 20-foot cliff, about 100 feet east of small ravine	36	27	27. 68	77	10	23. 86	1 216
rect from edge of 20-loot citif, about 100 feet east of small favine	30		21.08	''_	10	20.00	1,316
Near intersection of Sycamore Point and	San	dy:	Point r	oad	s.		
The state of the s	i -			ſ			1
Nail in root of red-oak tree, on west side of road, at edge of woods,	38	37	45. 01	77	11	11.58	3,722
600 feet easterly on road is bridge. Prim. Trav. Sta. No. 7, nail in root of 20-inch oak stump, 20 feet high on south side of road.				1			
Bridge	38 38	37 37	56. 89 59. 37	77	11 11	29, 12 43, 51	1,836 1,167
Hub on north side of road, 25 feet east of wooden culvert	38	37	55, 40	77	12	06.09	1,836
Sandy Point, Occoquan Bay, white flagpole (the stump only remains); U. S. Coast & Geodetic Survey point	38	37	57. 11	77	12	46.84	3, 240
From Primary Traverse Station 20 S to Primary Traverse Sta	tion	. 90	c /D			loncon	l 1020 \
From Finiary 11averse Station 20 S to Finnary 11averse Sta	,	1 23	ъ. (Б)	, 11.	۵. د		y III 1920.)
Prim. Trav. Sta. No. 20 S (previously described)	38	45	33. 22	77	05	08.60	<u> </u>
Crossroads, 19 feet west of, on south side of east and west road; copper nail in hub marked "P. T. 28 S"	38	45	37. 18	77	05	45. 35	2,938
Small bridge, 100 feet south of, in south side of road, 7 feet east of tree; copper nail in hub marked "P. T. 29 S"	38	45		77	06	04. 55	
tiee, copper han in into market 1.1.255	00	10	00.00			04. 00	3, 430
From Primary Traverse Station 1 B to Primar	у Т	rave	erse Sta	atio	n 29	s.	
T road north. I foot south of concrete road: conner neil in hub							
T road north, 1 foot south of concrete road; copper nail in hub, marked "P. T. P. No. 1 B". Gate post, 2 feet east of, on north side of road; copper nail in hub, marked "P. T. 42 S".	38	44	07.51	77	05	46. 12	
marked "P. T. 42 S"	38	44	16. 11	77	05	53. 54	1,050
East and west wire fence, 13 feet north of, 14 feet east of end of north and south wire fence, on east edge of woods; copper nail							'
in stump marked "P. T. 43 S". Prim. Trav. Sta. 29 S (previously described)	38	44	48. 16	77	05	53. 96	3, 242
Prim. Trav. Sta. 29 8 (previously described)	38	45	03. 80	77	06	04. 55	2,064
From Gum Springs to old road forks near Doque Cr	eek.	(E	y D. S	. Bi	ket	t in 191	.9.)
Gum Springs (proviously described)	38	44	20. 86	77	05	20.09	1
Gum Springs (previously described). "P. T. P. 1 B" (previously described)	38		07. 51			46. 12	2, 465
road; copper nail in hub marked "P. T. P. 2 B"	38	43	45. 83	77	06	27. 28	3,930
T road northwest, 25 feet west of, 2 feet north of concrete road, in concrete post; bronze tablet stamped "Prim. Trav. Sta. No.							
12 B"	38	43	37. 29	77	06	44. 43	1,610
T road west, in Y; copper nail in hub, marked "P. T. 4 B" T road northwest, at intersection; copper nail in hub, marked	38	43	55. 05	77	06	49. 46	1,840
"P. T. 5 B". East and west road, 25 feet north of gate, 7 feet east of road; cop-	38	4 3	45. 86	77	07	25. 99	3,040
per nail in stump, marked "P. T. 6 B"	38	44	14. 85	77	07	39.05	3,110
Road forks, in Y; copper nail in hub, marked "P. T. 7 B"	38	44	22. 70	77	07	43. 53	868
							

From old road forks near Dogue Creek to Potter's Hill crossroads. (By D. S. Birkett in 1920.)

Station.	L	atit	ude.	L	ongi	tude.	Distance between stations.
Road forks, at Dogue Creek, 8 feet north of road, in root of 12-inch gum tree; copper nail, marked "P. T. 11 B"	38	, 44	,, 21, 12	77	, 07	,, 57. 46	Feet. 1,114
Road forks, 100 feet south of bridge, in Y; copper nail in hub, "P. T. 12 B," elevation, 59.54 feet. Hayfield Farm, at red gate, 12 feet south of Telegraph Road;	38	44	45. 78	77	08	24. 40	3,284
bronze tablet in concrete post	38	45	06. 73	77	08	23. 75	2, 118
Crossroads, 15 feet southwest of center of; copper nail in hub, marked "P. T. 14 B"	38	45	16.96	77	08	38. 49	1,558
Froad west, 50 feet north of, 8 feet east of road; copper nail in root of 12-inch pine tree, marked "P. T. 15 B" Laurel Grove School, one-third of a mile south of, at junction with Potter's Hill and Franconia Road, 6 feet north of road:	38	45	48. 73	77	09	07. 91	3,970
with Potter's Hill and Franconia Road, 6 feet north of road; copper nail in cedar stump, marked "P. T. 16 B". Road forks, in Y; copper nail in hub, marked "P. T. 17 B" White house, opposite, on west edge of road; copper nail in hub, marked "P. T. 18 B".	38 38	45 45	57. 95 30. 09	77 77	09 09	21.18 41.49	1,404 3,245
marked "P. T. 18 B". I road west, at base of mail box; copper nail in root of 10-inch pine stump, marked "P. T. 19 B".	38	45	03. 15	77	10	00.86	3,128
Potters Hill crossroads, 25 feet west of center of road, in top of	38	44	39. 82	77	09	59.41	2,361
concrete abutment; bronze tablet	38 38	44 44	28. 81 28. 80	77 77	09 09	42.61 42.30	1,735 25
Magnetic declination, 4° 20′ W.				·			·
From point near Laurel Grove School to point 2 n	niles	sou	thwest	of	Fra	nconia	·
"P. T. 16 B" (previously described)	38	4 5	57. 95	77	09	21.18	
Laurel Grove crossroads, 20 feet south of; copper nail in top of twin pine stump, marked "P. T. 21 B" I road east, at east edge of main road; copper nail in hub, marked	38	4 6	13.30	77	09	12.77	1,688
"P T 99 R"	38	46	33.94	77	08	57.12	2,427
Olivet Chapel, T road at, in root of oak tree used as sign board; nail, marked "P. T. 23 B" Franconia station, 0.25 mile south of; center of concrete bridge over Southern Ry. track; bronze tablet stamped "Prim. Trav.	38	46	55. 80	77	08	46. 83	2, 358
Sta. No. 3 B"	38	46	46, 38	77	09	24.95	3, 180
copper nail in hub, marked "P. T. 25 B" T road north, 20 feet east of, at base of mail box; copper nail in	38	46	45. 79	77	09	37.63	1,003
Troad north, 20 feet east of, at base of mail box; copper nail in hub, marked "P. T. 26 B". Road forks northwest, 6 feet east of wood culvert; nail in hub, marked "P. T. 27 B".	38	46	41.18	77	10	05.68	2, 270
marked "P. T. 27 B". Dodson place, in front of, 25 feet east of road, in top of pine stump; nail, marked "P. T. 28 B"	38	46	42.01	77	10	43.47	2,993
stump; nail, marked "P. T. 28 B". Road forks, tie point, Hawkins (See Bull. 551, p. 327)	38 38	46 46	18. 41 04. 50	77	10 11	52. 52 04. 60	2, 494 1, 703
Magnetic declination, 4° 57′ W.							·
Three positions not tied in	1.						
Road forks, in Y, nail in hub marked "P. T. 29 B"	38 38	46	04. 19	77	11	04.65	32
Road forks Second-class road forks east, east side of road; nail in hub, marked "P. T. 30 B"	Ì	45	24.50	77	11	01.15	4,025
From crossroads at Pohick School southeast to Lorton. (38	45	24. 27	77		01. 14	23
in 1918. By D. S. Birkett in	1920).)	01 01 1	оро	gra	рду, U	. S. Army
Pohick School crossroads, Sydenstricker Chapel; concrete post	20	4-	01 0"		1.4	10.50	
set 31 feet south. Middle Run, center, 50 feet west of road crossingPrivate road.		45 45	21. 85 10. 27	77	14	19. 58 40. 32	1, 537 2, 018
Intersection of roads to Lorton and Pohick stations, 1 mile southwest of Pohick School crossroads.	38	44	59. 23	77	14	41.94	1,122
Troad to right, private road. Three corners.	38 38	44 44	43. 64 13. 18	77	15 15	02.00 09.46	2, 239 3, 139 233
Small wooden culvert Prim. Trav. Sta. No. 5, intersection of Occoquan and Lorton roads= Prim. Trav. Sta. 47 B. Silver Brook School 0.7 mile north of, at junction of Silver Brook and Hose roads, in southeast angle of crossroads; concrete post, marked "P. T. S.	38 38	44	10. 94 45. 18	77	15 15	10. 09 01. 17	2,700 2,700
No. 16 B"	38	43	41.12	77	15	03. 25	445

From crossroads at Pohick School southeast to Lorton—Continued.

Station.	Latitude.			Latitude. Longitude.						Latitude.			Station. Latitude. Longi						Distance between stations.
	۰	,	,,		,	,,	Feet.												
Small concrete culvert	38	43	36.17	77	14	45.28	1,508												
Second-class roads; T road west	38	43	14.63	77	14		2, 853												
Second-class road to right	38	43	09.38	77		16.60	680												
Private road to left District of Columbia Reformatory Farm, entrance to, 1.1 miles northwest of Lorton; nail in root of twin oak, painted Prim.	38	42	56. 19	77	14	02. 22	1,755												
Trav. Sta. No. —	38	42	53. 22	77	13	59.18	387												
Prim. Trav. Sta. No. 54 B, private T road northeast, on base of telephone pole; hub and copper nail. Lorton station, 600 feet north of, center of northbound track, Richmond, Fredericksburg & Potomac R. R. bridge over	38	42	30.96	77	13	41.58	2,650												
Washington and Richmond Highway; Prim, Trav. Sta. No. 7.	38	42	20.17	.77	13	16.50	2,268												

Magnetic declination, 5° 32' W.

From Lorton via Occoquan Workhouse and Silver Brook School to point on Rolling Road 2 miles north of Pohick School.

Lorton, Prim. Trav. Sta. No. 38 B, opposite Lorton Telephone							
Co.'s office, at base of telephone pole; hub and copper nail Prim. Trav. Sta. No. 39 B, bridge over Mill Creek, in floor near	38	42	16, 27	77	13	40.56	
north rail; copper nail	38	42	19.28	77	14	12.86	2,577
Road forks, opposite signboard marked "Government Reserva-	ĺ			1			,
tion," in concrete post; elevation 234.371 feet, bronze tablet stamped "Prim. Tray. Sta. No. 20 B".	38	49	10, 39	77	1.4	42, 59	0.504
Prim. Trav. Sta. No. 41 B, west side of road forks, 800 feet north-	30	44	10.59	'''	1.4	42.09	2,524
west of District of Columbia Reformatory stables; chiseled	1			(ĺ
square in concrete drain cover	38	42	01.76	77	15	15.08	2,718
Prim. Trav. Sta. No. 42 B, T road, 1,000 feet northwest of District of Columbia farm watch tower, at base of signboard							
marked "To Washington," on top of cement curb; chiseled							1
square, painted "P. T. 42 B"	38	41	57.78	77	15	23.44	775
Prim. Trav. Sta. No. 43 B, road forks, about 0.4 mile north of							
District of Columbia Reformatory buildings, at foot of 10- inch oak tree in Y, painted "P. T. 43 B"	38	49	24. 22	77	15	31.98	2,759
District of Columbia, old Reformatory boundary post at road		72	24. 22	١.,	10	01.00	2,103
forks	38	42	29.23	77	15	23.91	817
Prim. Trav. Sta. No. 45 B, 25 feet north of Giles Run, west edge	20	40	FC 17	77	15	10.48	0.005
of road, in top of 10-inch oak stump; copper nail	38	42	56.17	1 "	19	10.48	2,925
of white house	38	43	27, 19	77	15	11.34	3,139
Prim. Trav. Sta. No. 47 B, old point Prim. Trav. Sta. No. 5				l			
(previously described)	38	43	41, 12	77	15	03. 25	1,546
Prim. Trav. Sta. No. 48 B, T road, 1,100 feet southeast of Silver Brook Chapel, at fence corner; copper nailin hub	38	43	23.09	77	14	28, 17	3,326
Prim. Trav. Sta. No. 49 B, on root of 12-inch oak tree, 0.3 mile	00	10	20.00	١.,		20.11	0,020
south of South Run, on north slope of hill, 30 feet east of							
fence.	38	43	44. 50	77	14	02.15	2,990
Prim. Trav. Sta. No. 50 B, at road intersection, south edge of third-class road, in root of twin oak tree; copper nail	38	44	14.04	77	13	43.66	3,330
Prim. Trav. Sta. No. 51 B, opposite gate at T road north, south	00	-11	11.01	1	-0	10.00	0,000
side of road, in top of 4-inch oak stump; copper nail	38	44	25.31	77	13	52.65	1,345
Prim. Trav. Sta. No. 52 B, south edge of road, 100 feet east of							ļ
Pohick Creek, south edge of field; copper nail in top of 3-inch oak stump.	38	44	32, 10	77	13	25.65	2,246
Prim. Trav. Sta. No. 53 B, hub, east side of Rolling Road, oppo-							(
site T road, on base of 12-inch stump 7 feet high; copper nail	38	44	32.10	77	12	43.23	3,361
Old Prim. Trav. Sta. No. 2, top of 8-inch pine stump (previously described).	38	44	54, 24	77	12	44.87	2,244
described/	00	77	U1. 24	''	14	22.01	2,244

Magnetic declination, 5° 30' W.

Continuation of line from Gum Springs to junction of gravel and telegraph roads.

Prim. Trav. Sta. No. 8 B, opposite white house, 3 feet northwest of fence line; copper nail in hub.	38	44	36.48	77	07	29.73	1,772
Prim. Trav. Sta. No. 9 B, 150 feet south of brook, 5 feet east of road; copper nail in hub. Elevation 30.18 feet	38	44	54. 52	77	07	14. 25	2,198
of sweet-gum tree. Elevation 35.85 feet	38.	45	06.72	77	07	03.83	1,484
forks of gravel and telegraph roads; copper nail in root of tree	38	45 45	41.10 02.35	77 77	07 07	01.50 17.25	3,479 2,482

Along highway from New Alexandria northwest to Fairfax court house. (By H. S. Senseney in 1920.)

Station.	I	atii	ude.	L	ongi	tude.	Distance between stations.
		,	,,		,	"	Feet.
Prim. Trav. Sta. No. 23 S (previously described)	38	47	28.56	77	03	38.32	
mail box; copper nail	38	47	38.69	77	04	15.40	3,112
forks, 2} feet east of northeast corner of small brick building; copper nail in hub. Prim. Trav. Sta. No. 46 S, in west end of trestle, 2 feet north of	38	47	54.45	77	04	48.39	3,060
north rail of most southerly track, 21 feet west of center of road; copper nail	38	48	16.34	77	04	27.80	2,750
Prim. Trav. Sta. No. 47 S, at road crossing, just south of south rail of south trestle.	38	48	19.14	77	05	16.66	3,880
Prim. Trav. Sta. No. 48 S, north side of road, at T road south; copper nail.	38	48	29.82	77.	05	15.06	1,086
Alexandria, about 1 mile west of, at northeast corner of T road north, at H. W. Stanton's store, on concrete culvert, in	30	10	29.02	•••	00	10.00	1,030
chiseled cross; tablet stamped "Prim. Trav. Sta. 4 S"	38	48	30.77	77	05	19.70	380
Prim. Trav. Stá. No. 50 S, at southeast corner of T road south, in top of stump; copper nail	38	48	36.77	77	05	52.60	2,675
Prim. Trav. Sta. No. 51 S. north side of road, 12 feet west of lane north through gate; copper nail in hub	38	48	44.07	77	06	28.04	2,902
Prim. Trav. Sta. No. 52 S, north side of road, 12 feet west of lane through gate, in top of stump; copper nail	38	48	42.59	77	07	01.94	2,687
of road gate, in root of tree: copper nail	38	48	46.38	77	07	30.95	2,329
Lincolnia, Prim. Trav. Sta. No. 54 S, at northeast corner of crossroads, 2.6 feet south of tree; copper nailin hub (post No. 5							,
to be set here)	38	48	56.26	77	08	13. 17	3,489
in root of tree. Prim. Trav. Sta. No. 56 S, on south side of road, 6 feet north of	38	49	06.24	77	08	36.50	2,105
telephone pole 244, in stump; copper nail Lincolnia, 1½ miles northwest of, 20 feet north and 28 feet east of	38	49	12.33	77	09	11.45	2,834
crossroads, Prim. Trav. Sta. No. 57 S; copper nail in hub (post No. 6 to be set here).	38	49	21.58	77	09	48.72	2 007
Prim. Trav. Sta. No. 58 S, south side of road, at road forks, 32 feet south of fence, in top of stump; copper nail	38	49		' '	10		3,097
Prim. Trav. Sta. No. 59 S, north side of road, 40 feet east of G. H.			30.71	77		27. 83	3,232
Nash's mail box, in stump; copper nail. Annandale, Prim. Trav. Sta. No. 60 S, 150 feetwest of McDaniels's	38	49	42.35	77	11	06.40	3,273
store, on south side of road, 30 feet west of road forks; copper nail in hub (post No. 7 to be set here)	38	49	49.94	77	11	49.88	3,527
top of stump: copper nail	38	49	56.25	77	12	26.84	2,995
Prim. Trav. Sta. No. 62 S, south side of road, 20 feet east of T road north, 3 feet north of fence post; copper nail in hub	38	50	04.08	77	13	05.54	3,163
Prim. Trav. Sta. No. 63 S, cross cut in south end of east abut- ment of bridge	38	50	08.63	77	13	39.46	2,725
Annandale, about 2 miles west of, on south side of road, 8 feet east of corner fence, Prim. Trav. Sta. No. 64 S (post No. 8 to							,
be set here)	38	50	12.48	77	14	20.77	3,293
forks, in root of oak tree; copper nail. Prim. Trav. Sta. No. 66 S, at base of P. R. Labouisse's mail box,	38	50	18.17	77	15	06.38	3,656
in hub; copper nail. Fairfax courthouse, about 2 miles east of, at northwest corner of	38	50	23.16	77	15	42.35	2,891
T road north, Prim. Trav. Sta. No. 67 S; copper nail in hub (post No. 9 to be set here).	38	50	20.05	77	16	25.20	2 450
Prim. Trav. Sta. No. 68 S. Horth side of road, 60 feet west of	38		29.05			25.30	3,450
house, in stump; copper nail. Prim. Trav. Sta. No 69 S, north side of road, 60 feet west of T road south, on culvert; chiseled cross. Prim. Trav. Sta. No. 70 S, on south side of road, at top of hill, 3	l	50	34.33	77	17	06.09	3,273
Prim. Trav. Sta. No. 70 S, on south side of road, at top of hill, 3	38	50	35.88	77	17	18.82	1,019
feet west of white gatepost, in hub; copper nail	38	50	39.92	77	17	52.37	2,687
From Fairfax south along highways t	o O	coc	luan.				
Fairfax, on north side of courthouse, in west end of top of step;	Ī			<u> </u>			
bronze tablet stamped 447 (this tablet will also be stamped "Prim. Trav. Sta. No. 10 S 1920").	38	50	46.60	77	18	26.12	2,755
	38	50	17.18	77	18	44.44	3,310
road west, in stump, copper nail. Prim. Trav. Sta. No. 72 S, on west side of road, 8 feet north of bar get in hub; copper nail	1	•		' '			
bargate, in hub; copper nail	38	49	53.02	77	18	56.16.	2,614

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CAMP HUMPHREYS, INCLUDING PARTS OF FAIRFAX, INDIAN HEAD, OCCOQUAN, AND WASHINGTON QUADRANGLES—Continued.

From Fairfax south along highways to Occoquan—Continued.

Station.	Ι	Latit	ude.	L	ongi	itude.	Distance between stations.
Fairfax courthouse, about 2 miles south of, 25 feet south and 20							
feet west of cross roads, Prim. Trav. Sta. No. 73 S; copper nail in hub (post No. 11 S will be set here). Prim. Trav. Sta. No. 74 S, on east side of road, 20 feet north of	38	, 49	39.22	77	, 19	01.13	Feet. 1,452
renceline, in hub; copper nail. Prim. Trav. Sta. No. 75 S, on east side of road, 30 feet south of	38	49	09.96	77	19	12.37	3,091
road forks, in stump; copper nail	38	48	45.50	77	19	28.09	2,771
Prim. Trav. Sta. No. 76 S, on west side of road, 20 feet north of driveway to yellow house on hill, in hub; copper nail Fairfax station, Prim. Trav. Sta. No. 77 S, 12 feet south and 15	38	48	22.19	77	19	37.52	2,474
feet east of south end of highway bridge over Southern Ry.; copper nailin hub (post No. 12 S to be set here)	38	47	59.91	77	19	41.06	2,272
Prim. Trav. Sta. No. 78 S, on west side of road, at Mrs. Carroll's mail box, in hub; copper nail	38	47	32.36	77	19	31.20	2,895
Prim. Trav. Sta. No. 79 S, at base of telephone pole, at southeast corner of road forks, in hub; copper nail.	38	47	07.60	77	19	31.51	2,505
Prim. Trav. Sta. No. 80 S, at southeast corner of crossroads, in top of stump; copper nail Prim. Trav. Sta. No. 81 S, on east side of road, in root of large	38	46	52.78	77	19	40.87	1,674
stump; copper nail	38	46	39.93	77	19	11.31	2,678
feet west of road forks; iron post stamped "Prim. Trav. Sta. No. 13 S, 1920". Prim. Trav. Sta. No. 82 S, east side of road, 18 feet south of lane,	38	46	03.89	77	18	52.57	3,936
in stump; copper nam	38	45	39.47	77	18	31.83	2,967
Prim. Trav. Sta. No. 83 S, on west side of road, 90 feet north of second-class road south at two mail boxes, in hub; copper nail.	38	45	14.76	77	18	10.61	3,012
Prim. Trav. Sta. No. 84 S, 1 foot south of fence post, on south side of lane west to house, in hub; copper nail	38	44	55.73	77	17	46.21	2,726
Prim. Trav. Sta. No. 85 S, on west side of road, in root of oak tree; copper nail. Ox Road School, about 2 miles north of, 25 feet south and 12 feet	38	44	38.51	77	17	23.37	2,512
east of road forks; concrete post stamped "Prim. Trav. Sta. 14 S. Elev. 324." Elevation 323,290 feet	38	44	33.55	77	17	14 40	869
Prim. Trav. Sta. No. 87 S, on north side of road, in front of yellow house on hill, in root of oak tree; copper nail	38	44	16.86	77	16	59.93	2,040
Prim. Trav. Sta. No. 88 S, 35 feet east of road, on south side of second-class road, in stump; copper nail	38	44	01.26	77	16	45.03	1,970
Prim. Trav. Sta. No. 89 S, on west side of road, 70 feet north of second-class road west, in root of oak tree; copper nail	38	43	27.15	77	16	52.17	3,498
Prim. Trav. Sta. No. 90 S, on north side of road, 120 feet east of road forks, in oak tree; copper nail	38	43	10.33	77	16	34.17	2,221
north of telephone pole, in concrete post; bronze tablet stamped "Prim. Trav. Sta. No. 15 S"	38	43	07.41	77	16	15. 21	1,532
rim. Trav. Sta. No. 92 S, in front of house 40 feet west of road, in root of pine tree; copper nail.	38		45.92	77	15	48.69	3,024
Prim. Trav. Sta. No. 43 B (previously described)	38		24. 22	77	15	31.98	2,564
over Occoquan Creek, 10 feet west of road, on top of large rock; bronze tablet stamped Prim. Trav. Sta. No. 16. Elevation 20.247 feet	38	41	11.79	77	15	44.50	7,394

From Lorton south along Southern Ry. to Colchester and west and north to Washington and Richmond highway. (By D. S. Birkett in 1920.)

Lorton station, about 600 feet north of (previously described)	. 38	42	20.17	77	13	16.50	
Lorton station, center line of track		42	10.37	77	13	19.68	1,020
Overhead crossing		41	48.53	77	13	26.77	2,280
Milepost 19 from Washington	. 38	41	03.53	77	13	39.79	4,667
Colchester, Prim. Trav. Sta. No. 1 on concrete abutment of un-	1					•	
dergrade crossing	. 38	40	16.29	77	14	05.67	5,200
Occoquan railroad bridge, on curtain wall abutment, east end		•••	20.20	١			,
of bridge; painted square	. 38	40	04.90	77	14	22.53	1,766
Occoquan bridge, center line		40				18.09	464
Colchester station, 0.4 mile west of; Prim. Trav. Sta. No. 35 B,			01.00	١	••	10.00	1
5 feet west of second-class road up Occoquan Creek, at edge of				ł			į .
field, in top of 12-inch oak stump; copper nail. Elevation	1						1
85.46 feet	20	40	23,32	77	12	23.36	1,574
Prim. Trav. Sta. No. 36 B. 800 feet west of road forks, on concrete		40	20.02	, ,,	10	20.00	1,014
culvert over small creek, south end; chiseled square. Eleva-	1						1
three over sman creek, south end; chiseled square. Eleva-	20	40	35, 66	77	14	41.63	1,914
tion 33.95.	. 30	40	33,00	111	14	41.03	1,914
Prim. Trav. Sta. No. 37 B, in Y, at road forks, 30 feet south of stone steps, painted "P. T. 37 B"; top of hub	38	40	49 89	777	14	EO 20	1 100
stone steps, painted "P. T. 37 B"; top of nub	. 38	40	43.53	177	14	52.30	1,162

From Lorton south along Southern Ry. to Colchester and west and north to Washington and Richmond Highway—Continued.

Station.	Latitude.		Station. Latitude. Longitude.						
Prim. Trav. Sta. No. 55 B, just north of clearing north of house,		,	,,		,	,,	Feet.		
in root of oak tree; copper nail.	38	41	13.15	77	14	32,56	3,383		
Prim. Trav. Sta. No. 56 B, in small stump, north side of T road west; copper nail. Prim. Trav. Sta. No. 57 B, near dim road forks, about 300 feet	38	41	25.52	77	14	15.32	1,852		
south of hollow, on 10-foot bank, 40 feet west of road, in small stump; copper nail	38	41	43.58	77	14	14.22	1,829		
Prim. Trav. Sta. No. 40 B (previously described), at road forks.	-		10.00	•••			1 2,020		
at sign marked "Government Reservation"	38	42	10.39	77	14	42.59	3,525		

Magnetic declination, 4° 23′ W., 1920.

From forks of telegraph and gravel roads southwest to a point two miles southwest of Alexandria. (By D. S. Birkett in 1920.)

Prim. Trav. Sta. No. 5 (previously described)	38	46	02.35	77	07	17. 25	
wooden culvert: copper nail	38	46	28.56	77	06	41.49	3,880
Prim. Trav. Sta. No. 64 B, on north side of road, 100 feet west of private crossroads, in concrete culvert over small stream;			** 0*		04	15 41	0.000
chiseled square. Paim. Trav. Sta. No. 65 B, east side of private T road south, 21 feet north of intersection, near telephone pole, in hub;	38	40	54. 95	77	06	17. 41	3,282
copper nail	39	47	07.78	77	05	49.63	2,554
Prim. Trav. Sta. No. 66 B. 20 feet south of Y in road, in inter- section, in root of cedar tree; copper nail	38	47	18.76	77	05	15. 54	2,918
road, in concrete abutment of steel bridge over Pike Branch; bronze tablet. Prim. Trav. Sta. No. 45 S (previously described).	38 38	47 47	35. 70 54. 45	77 77	05 04	02. 40 48. 39	2,000 2,205
Time. Trav. Sea. No. 40 S (previously described)	00	7/	01.40	"	02	20. 09	2,200

South from Lewis Chapel to Occoquan Bay. (By D. S. Birkett in 1920.)

Lewis Chapel crossroads (previously described). Prim. Trav. Sta. No. 68 B, 14 feet east of T. B. M. 145.8, 40 feet	38	41	13.94	77	12	31.75	
north of dim road forks, 4,000 feet south of Lewis Chapel, on west side of road, in root of twin oak tree; copper nail. Prim. Trav. Sta. No. 69 B. temporary bench mark 138.3. one	-38	40	34. 44	77	12	30. 26	3,998
fourth of a mile south of Lewis Chapel, at road forks, 240 feet north of small house, on east side of road, in small stump; copper nail. Prim. Trav. Sta. No. 70 B, at private-road crossing, 50 feet south	38	40	10.75	77	12	33. 11	2,409
of intersection, in very small stump; copper nail	38	39	53.95	77	12	29.98	1,718
laip's house (Belmont Farm), 30 feet southwest of south corner of orchard fence, in concrete post, bronze tablet	38	39	36. 58	77	12	01.56	2,882

Magnetic declination, 5° 57' W.

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Southwest from Lewis Chapel to a point on the Richmond, Fredericksburg & Potomac R. R. 1 mile north of Colchester.

Lewis Chapel crossroads (previously described) Lewis Chapel, 0.5 mile southwest of, Prim. Trav. Sta. No. 72 B.	38	41	13.94	77	12	31.75	
45 feet northeast of intersection of private gravel roads, on west side of road, 100 feet west of small stream; copper nail in stump Lewis Chapel, 0.75 mile southwest of, Prim. Trav. Sta.No. 73 B, opposite very old frame house (unoccupied) at top of steep	38	40	59.78	77	13	03. 26	2,878
hill, 8 feet north of gum tree, on south side of road, in hub; copper nail. Prim. Tray. Sta. No. 33 B. in plank, east side of second-class	38	40	47.60	77	13	15. 97	1,591
Fredericksburg & Potomac R. R.: copper nail.	38	40	51.71	77	13	42.08	2,108
Prim. Trav. Sta. No. 1, at Colchester station (previously described)	38	40	16. 29	77	14	05. 67	4,042

Magnetic declination, 5° 56' W.

Along highways from Barker's crossroads on Rolling Road and south to Sydenstricker Chapel (Pohick School). (By D. S. Birkett in 1920.)

Station.	L	atit	ude.	L	ongi	tude.	Distance between stations.
District Charles and District	0	,	"	0	,	"	Feet.
Barkers crossroads, Prim. Trav. Sta. No. 3 (previously described). Barkers crossroads, 50 feet north of Davis's store, 15 feet north- west of road, at T road east in concrete post; bronze tablet	38	45	34. 08	77	13	04.80	
stamped "Prim. Trav. Sta. No. 9 B". Prim. Trav. Sta. No. 58 B, at intersection of private-road forks	38	45	34. 13	77	13	04. 58	20
northwest, in hub; copper nail Prim. Trav. Sta. No. 59 B, at road forks, in root of large oak tree;	. 38	45	48.01	77	13	19.86	1,850
copper nail	38	46	16.35	77	13	56.43	4,07
Prim. Trav. Sta. No. 60 B, 20 feet south of intersection of Rolling Road and old Fairfax Road, in hub; copper nail	38	46	41.53	77	14	15. 47	2,96
Prim. Trav. Sta. No. 61 B, on west side of Pohick Creek, at ford, in gum stump; copper nail. Prim. Trav. Sta. No. 75 B, 100 feet south of T road east, 20 feet south of large pine tree, on east side of road, on top of stump	38	46	21.54	77	14	33. 2 8	2,46
3 feet high; copper nail	38	45	45. 85	77	14	43.53	3,70
Trav. Sta. No. 10 B".	38	45	21.54	77	14	19.61	
Magnetic declination, 5° 42′ W.							
West along Southern Ry. from Seminary station to Fairfax	sta	tio	а. (Ву	H.	s. s	ensene	y in 1920.
Prim. Trav. Sta. No. 47 S (previously described)	38	48	19.14	77	05	16.66	
ameron Run, 850 feet east of, on top of southwest corner of south abutment of Southern Ry. bridge, about 4 feet above track; aluminum tablet stamped "54, Prim. Trav. Sta. No. 17 S,							
1920"	38	48	23.06	77	06	24. 52	5,3
ing, in hub P. T. 98 S; copper nail. Edsall, 35 feet west of station, 23 feet south of south rail of south track, in concrete post; bronze tablet stamped "Prim. Trav.	38	48	05. 51	77	08	02.90	7,9
Sta. No. 19". pringfield, 510 feet east of station, in west abutment of railroad bridge over Back Lick Run, in top of stone at south end; aluminum tablet stamped "215, Prim. Trav. Sta. No. 20 S,	38	47	42.39	77	09.	28. 64	7,17
1920''	38	47	48.11	77	11	00.70	7,30
rim. Trav. Sta. No. 101 S., at southeast corner of second-class road crossing, on culvert; chiseled square rim. Trav. Sta. No. 102 S., in north end of east abutment of	38	47	44.57	77	11	51.74	4,0
bridge over Accotink Creek; chiseled square	38	47	34.28	77	13	03.09	5,7
Ravensworth, 22 feet north of northeast corner of station, Prim. Trav. Sta. No. 103 S., in hub; copper nail	38	47	46.09	77	14	14.06	5,7
Prim. Trav. Sta. No. 104S., in center of southbound track under highway bridge over railroad; copper nail	38	47	45, 32	77	14	55.31	3,2
Surke, 30 feet east of operator's window at station, Prim. Trav. Sta. No. 105 S., in north end of platform; copper nail	38	47	42,91	77	16	12.03	6,0
of track, 50 feet west of road grossing, 5 feet below line of track, in top of southeast corner of concrete culvert; aluminum tablet stamped "262 Prim. Trav. Sta. No. 228, 1920"	38	47	51.33	77	16	31.39	1,7
edge of second-class road crossing, 230 feet east of trestie over							
Pohick Creek; copper nail	38	47	53.97	77	17	02.39	2,4
oftelephone pole; in top of concrete post, tablet stamped "248" ideburn, 25 feet east of station, Prim. Trav. Sta. No. 109 S., about 6 inches south of north rail of southbound track, in tie;	38	47	51.06	77	18	06.68	5,0
copper nail. Prim. Trav. Sta. No. 77 S, Fairfax station (previously described).	38 38	48 47	$00.33 \\ 59.91$	77			2,3 5,3
From Springfield station south on high	vay	abo	ut 1½ m	iles			1
uningfield Thim There Ste No 200 (consistent day 11-2)	00	4=	40 11	~~		00.70	1
pringfield, Prim. Trav. Sta. No. 20 S (previously described) Prim. Trav. Sta. No. 110 S., on west side of road, 60 feet north	38		48.11	77		00.70	İ
of road forks, in root of pine tree; copper nail	38	47	20.34	77	11	12.14	2,9
bronze tablet. Prim. Trav. Sta. No. 27 B., 1½ miles south of Springfield (previously described).	38		45. 25	77		05.67	3,5
	1 00	AC	42.01	77	10	43.47	- 1,7

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From a point 1.25 miles south of Lincolnia along highway to Lincolnia.

Station.	,	Latit	tude.	L	ong	itude.	Distance between stations.
		,	-,,		,	-,,	Feet.
Prim. Trav. Sta. No. 23 B (previously described)	38	46	55.80	77.	08	46.63	
in root of tree; copper nail. Prim. Trav. Sta. No. 113 S, east side of road, at T road west,	38	47	02.51	77	08	11.05	2,895
Lunt, Prim. Trav. Sta. No. 114 S, railroad trestle over highway,	38	47	37.71	77	08	13.96	3,570
on south end of east abutment; chiseled square	38 38	47 48	54.30 05.51	77 77	08 08	04.48 02.90	1,839 1,144
From a point 1 mile north of the Ox Road School east to o Brook School. (By D. S. Birkett in I			ds, 0.5	mile	no	rthwes	t of Silver
Prim. Trav. Sta. No. 88 S (previously described)		44		77		45.03	
Prim. Trav. Sta. No. 91 B. 40 feet east of orchard fence where	38	44	11.45	77	16	31.35	1,494
private road enters woods, in root of pine tree; copper nail Prim. Trav. Sta. No. 92 B, at crossroad near creek, in root of birch	38	44	16.26	77	16	08.47	1,878
tree; copper nail. Prim. Trav. Sta. No. 93 B, 30 feet east of crossroads gate, in root	38	44	05.70	77	16	00.80	1,230
of birch tree; copper nail. Prim. Trav. Sta. No. 47 B (previously described)	38 38	43 43	41.34 41.12	77 77	15 15	$28.79 \\ 03.25$	3,538 2,023
Magnetic declination, 5° 46′ W.	1						!
From Olivet Chapel southeast via Triplett place to fo	rks	of G	ravel a	nd '	Fele	graph	roads.
Prim. Trav. Sta. No. 23 B (previously described) Prim. Trav. Sta. No. 94 B, 100 feet southeast of white farm house,	38	46	55. 80	77	08	46.63	ļ
in root of locust tree; copper nail. Prim. Trav. Sta. No. 95 B, in small wooden bridge over Dogue	38	46	41.69	77	08	08.38	3,348
Creek; copper nail. Prim. Trav. Sta. No. 96 B, Humphreys place, about three- fourths of a mile west of fork of Telegraph and Gravel roads, 50 feet soutneast of white house on edge of hill, in root of maple	38	46	28.74	77	08	04. 15	1,352
tree; copper nail. Prim. Trav. Sta. No. 5, at forks of Telegraph and Gravel roads	38	46	12.32	77	08	02.02	1,670
(previously described)	38	46	02.35	77	07	17.25	3,686
Magnetic declination, 4° 22′ W.							,
From crossroads 1.5 miles south of Burke southwest to Ox R	oad	Sch	ool. (Ву І). S.	Birke	tt in 1920.)
Prim. Trav. Sta. No. 88 B (previously described)	38	46	37. 09	77	16	33.48	
	38	46	23.75	77	17	08.16	3,062
feet from burned stump, in hub; copper nail.	30		1			19,00	1,912
feet from burned stump, in hub; copper nail Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail	38	46	06.90	77	17		
feet from burned stump, in hub; copper nail Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oakroot; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, 15 feet south-	38 38	46 45	06, 90 47, 85	77	17	22.68	
feet from burned stump, in hub; copper nail Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oak root; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, 15 feet southwest to marked tree in hub; copper nail.	38 38 38	46 45 45	06.90 47.85 27.89	77 77	17 17	22.68 41.34	2,504
feet from burned stump, in hub; copper nail Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oak root; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, 15 feet southwest to marked tree in hub; copper nail.	38 38	46 45 45	06, 90 47, 85	77 77 77	17 17 17	22. 68 41. 34 33. 40	1,950 2,504 2,199
feet from burned stump, in hub; copper nail Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oakroot; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, 15 feet south-	38 38 38 38	46 45 45 45	06.90 47.85 27.89	77 77 77	17 17 17	22.68 41.34	2,504
feet from burned stump, in hub; copper nail. Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oak root; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, is feet southwest to marked tree, in hub; copper nail. Prim. Trav. Sta. No. 117 B, 60 feet north of creek at ford, 5 feet west of center line of road; copper nail in ash root. Prim. Trav. Sta. No. 86 S, 2 miles north of Ox Road School (previously described). Magnetic declination, 5° 56' W.	38 38 38 38 38	46 45 45 45 44	06. 90 47. 85 27. 89 07. 07 33. 55	77 77 77 77	17 17 17 17	22.68 41.34 33.40 14.40	2,504 2,199 3,710
feet from burned stump, in hub; copper nail. Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oak root; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, is feet southwest to marked tree, in hub; copper nail. Prim. Trav. Sta. No. 117 B, 60 feet north of creek at ford, 5 feet west of center line of road; copper nail in ash root Prim. Trav. Sta. No. 86 S, 2 miles north of Ox Road School (previously described).	38 38 38 38 38	46 45 45 45 44	06. 90 47. 85 27. 89 07. 07 33. 55	77 77 77 77	17 17 17 17	22.68 41.34 33.40 14.40	2,504 2,199 3,710
feet from burned stump, in hub; copper nail. Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oak root; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, 15 feet southwest to marked tree, in hub; copper nail Prim. Trav. Sta. No. 117 B, 60 feet north of creek at ford, 5 feet west of center line of road; copper nail in ash root Prim. Trav. Sta. No. 86 S, 2 miles north of Ox Road School (previously described) Magnetic declination, 5° 56' W. From Lee Chapel to point 1 mile northwest of Pohick School (Prim. Trav. Sta. No. 2, 1911) (previously described) J. S. Geological Survey permanent bench mark; Lee Chapel (Prim. Trav. Sta. No. 2, 1911) (previously described)	38 38 38 38 38	46 45 45 45 44	06. 90 47. 85 27. 89 07. 07 33. 55	77 77 77 77	17 17 17 17 17 Birko	22.68 41.34 33.40 14.40	2,504 2,199 3,710
feet from burned stump, in hub; copper nail. Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail Prim. Trav. Sta. No. 115 B, at road forks, in oak root; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, 15 feet southwest to marked tree, in hub; copper nail. Prim. Trav. Sta. No. 117 B, 60 feet north of creek at ford, 5 feet west of center line of road; copper nail in ash root Prim. Trav. Sta. No. 86 S, 2 miles north of Ox Road School (previously described). Magnetic declination, 5° 56' W. From Lee Chapel to point 1 mile northwest of Pohick School (Prim. Trav. Sta. No. 118 B, at T road, in pine root; copper nail. Prim. Trav. Sta. No. 118 B, at T road, in pine root; copper nail. Prim. Trav. Sta. No. 119 B, 300 feet west to creek, 60 feet west of old mill barracks, in stump; copper nail.	38 38 38 38 38	46 45 45 45 44 1. (06. 90 47. 85 27. 89 07. 07 33. 55	77 77 77 77 8. I	17 17 17 17 17 Birko	22.68 41.34 33.40 14.40 ett in 1	2,504 2,199 3,710 920.)
feet from burned stump, in hub; copper nail. Prim. Trav. Sta. No. 114 B, at T road, 10 feet north of oak tree, 15 feet west of center line of road, in hub; copper nail. Prim. Trav. Sta. No. 116 B, at road forks, in oak root; copper nail. Prim. Trav. Sta. No. 116 B, at center of road forks, is feet southwest to marked tree, in hub; copper nail. Prim. Trav. Sta. No. 117 B, 60 feet north of creek at ford, 5 feet west of center line of road; copper nail in ash root. Prim. Trav. Sta. No. 86 S, 2 miles north of Ox Road School (previously described). Magnetic declination, 5° 56' W. From Lee Chapel to point 1 mile northwest of Pohick School (Prim. Trav. Sta. No. 2, 1911) (previously described). J. S. Geological Survey permanent bench mark; Lee Chapel (Prim. Trav. Sta. No. 2, 1911) (previously described). Prim. Trav. Sta. No. 118 B, at T road, in pine root; copper nail.	38 38 38 38 38 38	46 45 45 45 44 1. (06. 90 47. 85 27. 89 07. 07 33. 55 (By D.	77 77 77 77 S. I	17 17 17 17 17 16 16 16	22. 68 41. 34 33. 40 14. 40 ett in 1 37. 25 05. 94	2,504 2,199 3,710 920.)

Magnetic declination, 5° 48' W.

)

From point near Gunston Hall to Sandy Point. (U.S. C. & G.S. station.)

Station.	Latitude.			Latitude. Longitude.		Distance between stations.	
Prim. Trav. Sta. No. 1, 1918, School of Topography (previously described). Prim. Trav. Sta. No. 108 B, 500 feet northeast of road forks.	。 38	39	" 29.33	°	, 09	,, 42,96	Feet.
10 feet east of roads, in tree root; copper nail	38		58.96	77		52.70	3, 168
of road, in root of 2-inch beech tree; copper nail Prim. Trav. Sta. No. 110 B, south side of road, 30 feet from center of road, in pine root; copper nail	38 38		45.75 41.73	77		15.80 55.80	2, 267 3, 198
Prim. Trav. Sta. No. 111 B, at road forks, in pine root; copper nail. Prim. Trav. Sta. No. 112 B, at road fork, in oak root, "No	38	38	30.11	77	11	22 . 84	2,445
trepassing" sign on tree; copper nail. U. S. Coast and Geodetic Survey triangulation station, Sandy Point.	38 38	38 37	00.72 57.11	77	11 12	55.00 46.84	3,918 4,130

Magnetic declination, 5° 37' W.

From a point about 2 miles southwest of Alexandria west along old Fairfax Road.

Prim. Trav. Sta. No. 67 B (previously described)	38	47	35.65	77	05	02.48	
25 feet east of intersection, in stump near telephone pole;							i
copper nail	38	47	29.81	77	05	50.42	3,839
Prim Trav. Sta. No. 82 B, private T road north, 25 feet south							, , , , , , ,
of old Fairfax Road, in root of large cherry tree: copper nail	38	47	29.58	77	06	08.79	1,452
Prim. Trav. Sta. No. 83 B, on south side of road, about 170 feet				İ		-	
east of large frame house south of road, on top of concrete	_						
culvert; chiseled square	38	47	19.81	77	06	46.70	3,160
Prim. Trav. Sta. No. 3 (previously described)	38	47	10.63	77	07	20.30	3, 160 2, 816
				•			1 .

Magnetic declination, 5° 32' W.

From a point 1.5 miles south of Lee Chapel over highways to Burke.

Prim. Trav. Sta. No. 86 B (previously described)	38	44	33.55	77	17	14.40	
Run; copper nail. Elevation 323.78 feet	38	44	50.80	77	16	55.28	2,313
No. 2, Va. 1911 (new value)	38	45	19.75	77	16	37.25	3,259
road, in stump; copper nail	38	45	31.32	77	16	24.90	1,527
large oak tree; copper nail. Prim. Trav. Sta. No. 87 B, in east side of wooden bridge; copper	38	45	52, 57	77	16	22.74	2, 158
nail	38	46	12.43	77	16	19.82	2,022
Prim. Trav. Sta. No. 88 B, 10 feet northeast of crossroads, 1.5 miles south of Burke, about 100 feet west of large dead tree, in hub; copper nail	38	46	37.09	77	16	33.48	2,720
Prim. Trav. Sta. No. 89 B, 25 feet from center of T road, in northeast corner near fence post, in hub; copper nail	38	47	01.91	77	16	46.57	2,718
Prim. Trav. Sta. No. 105 B, 600 feet west of Burke, northeast abutment of iron bridge, in sandstone rock; chiseled square Prim. Trav. Sta. No. 105 S, Burke (previously described)		47 47	33.25 42.91	77 77		24. 28 12. 05	3,630 1,376
				1			l

Magnetic declination, 6° 01' W.

From point near Lewis Chapel to Cone Creek.

Lewis Chapel crossroad, 50 feet southwest of (previously described). Prim. Trav. Sta. No. 97 B, at road fork, 8 feet west of W. D. Dean's mail box, in top of concrete post; tablet stamped	38	41	13.94	77	12	31.73	
"28 B"	38	40	07.50	77	11	14.02	9,119
Prim. Trav. Sta. No. 98 B, 100 feet east of house, at road turn,				١			
in tree root; copper nail	38	39	36.70	77	11	10.28	3,131
section; copper nail in stump	38	39	20.94	77	11	12.59	1,604
Prim. Trav. Sta. No. 100 B, at road fork, near end of road, 150 feet from shore line, in top of concrete post; tablet stamped				l			
"29 B"	38	39	08.65	77	11	37.89	2,362
	}			1			

From Edsall to Franconia.

Station.	Latitude.			tude. Longitude.				
Prim. Trav. Sta. No. 99 S (previously described)	° 38	47	42.39	° 77	, 09	28. 64	Feet.	
north of Franconia station, northbound track, in tree; copper nail.	38	47	22.48	77	09	18.67	2,168	
Prim. Trav. Sta. No. 102 B, 25 feet southwest of section house 289, northbound track, in tree; copper nail	38	47	04.87	77	09	21.67	1,800	
Prim. Trav. Sta. No. 24 B, Franconia station (previously described)	38	46	46.39	77	09	24.95	1,889	

Magnetic declination, 5° 00' W.

From point 2 miles west of Franconia northwest to Southern Ry.

		_					
Prim. Trav. Sta. No. 78 B (previously described)	38	46	42.04	77	11	26.33	
in stump; copper nail.	38	46	56.67	77	11	55.76	2,766
Prim. Trav. Sta. No. 104 B, at intersection of road and telegraph line, in stump; copper nail.	38	47	02.77	77	12	18.32	1,894
Prim. Trav. Sta. No. 124 B, 80 feet south of house at road banks, in pine root; copper nail.	38	47	13.82	77	12	26.06	1, 281
Prim. Trav. Sta. No. 125 B, at small creek, 10 feet east of center of road, in root; copper nail.	38	47	21.38	77	12	33, 47	968
Prim. Trav. Sta. No. 101 S (previously described)				77	11		4,051
				•			

Magnetic declination, 5° 31' W.

From point 1 mile northwest of Pohick School to point 1.5 miles south of Burke.

Prim. Trav. Sta. No. 75 B (previously described)	38	45	45. 85	77	14	43. 53	
in road fork, 120 feet east of mail boxes, in root of large oak tree; copper nail Prim. Tray. Sta. No. 106 B, at crossroads, 15 feet south of main	38	45	58.39	77	15	09.94	2, 445
road, in stump; copper nail	38	46	18, 93	77	15	47.07	3,600
Prim. Trav. Sta. No. 107 B, at road forks, 15 feet north of roads, in base of 12-inch oak tree; copper nail.	38	46	33. 98	77	16	07. 50	2, 220
Prim. Trav. Sta. No. 88 B, 1.5 mîles south of Burke (previously described)	38	46	37.09	77	16	33.48	2,081

Magnetic declination, 5° 44' W.

From point 1.3 miles west of Franconia west along old Fairfax Road.

Prim. Trav. Sta. No. 27 B (previously described)	38	46	42.01	77	10	43.47	
south side of road, in roof of pine tree: copper nail	38	46	42.04	77	11	26.33	3,399
Prim. Trav. Sta. No. 79 B, south side of road, on east bank, in root of large twin oak tree; copper nail	38	46	30. 89	77	12	12.85	3,857
Prim. Trav. Sta. No. 80 B, on south side of road, in same stump as T. B. M. 292.1; copper nail.	38	46	36. 47	77	13	07. 48	4,368
Prim. Trav. Sta. No. 81 B, and T. B. M. 323.5, on north side of road, in stump; copper nail.	38	46	49. 86	77	13	30.11	2, 252
Prim. Trav. Sta. No. 121 B, intersection of Rolling Road and old Fairfax Road, in hub; copper nail			45. 08		14	00.79	2,480
Prim. Trav. Sta. No. 60 B, was erroneously described as being at intersection of Rolling Road and old Fairfax Road. It is	00		10.00	''			_,
about 1,200 feet west, at intersection of second-class road with							
old Fairfax Road	38	46	41.53	77	14	15. 47	1, 220

Magnetic declination, 5° 35' W.

121166°--23--Bull, 709----29

From intersection of old Fairfax Road and Rolling Road north to Ravensworth.

Station.	Latitude.			L	ongi	Distance between stations.	
Prim. Trav. Sta. No. 121 B (previously described)	。 38	46	,, 45. 08	。 77	, 14	00.79	Feet.
Prim. Trav. Sta. No. 122 B, 150 feet north of road fork, 10 feet west of center line of road, in hub; copper nail.	38	47	04.51	77	14	17.05	2,354
Prim. Trav. Sta. No. 123 B, at crossroads, 15 feet west of center line of main road, in tree root; copper nail. Prim. Trav. Sta. No. 103 S (previously described)	38 38	47 47	18. 89 46. 09	77 77	14 14	26. 43 14. 06	1,637 2,926

Magnetic declination, 5° 48' W.

From a point on Rolling Road 1.5 miles north of Pohick station east to Accotink station. (By D. S. Birkett in 1920.)

				,			
Prim. Trav. Sta. No. 53 B (previously described) Prim. Trav. Sta. No. 126 B, northwest corner of field, 4 feet west	38	44	32. 10	77	12	43.23	
of center of road, copper nail in stump	38	44	12.52	77	12	28.88	2, 285
Prim. Trav. Sta. No. 127 B, 125 feet north of Accotink Creek, at road forks; copper nail in hub.	38	43	59.75	77	12	05. 55	2,259
Prim. Trav. Sta. No. 128 B, at road forks, edge of roads; copper nail in hub	38	43	51, 48	77	12	00.12	944
Point on northbound track of Richmond, Fredericksburg & Potomac R. R., opposite tangent on Camp A. A. Humphreys							
R. R., School of Topography point, 1918 (previously described).	38	44	06.12	77	11	12.90	4,027

From a point on Alexandria and Franconia road north via Bush Hill to crossing of Southern Ry. and Richmond, Fredericksburg & Potomac R. R.

Prim. Trav. Sta. No. 82 B (previously described)		47	29. 58	77	06	08.79	
northwest of brown frame house (Hadden place), west edge of private road, in root of oak tree; copper nail. Prim. Trav. Sta. No. 130 B, about 300 feet west of frame house,	38	47	52. 23	77	06	07.74	2, 293
40 feet north of creek, north edge of road; copper nail in hub.	38	48	05.80	77	06	15.87	1,520
Cameron Run, 850 feet east of; aluminum tablet No. 54 (pre- viously described)	38	48	23, 06	77	06	24. 52	1,877

From Laurel Grove School east about 1 mile.

 ${\bf Note}.{\bf -This}$ line was not completed; there was no azimuth nor distance check, and the positions are preliminary.

Prim. Trav. Sta. No. 21 B (previously described)	38	46	13.30	77	09	12.77	
frame house, in fork of roads; copper nail in hub	38	46 45	06. 29 59. 83	77 77	08 08	42.63 31.94	2,490 1,072

Magnetic declination, 5° 30′ W.

From a point 0.5 mile east of Sideburn, south 1 mile, then west.

Note.—This line was unfinished; no check azimuth and no closure.

Prim. Trav. Sta. No. 108 S (previously described)	38	47	51.06	77	18	06.68	
Prim. Trav. Sta. No. 132 B, 0.5 mile south of railroad crossing, top of hill, 12 feet east of road; copper nail in small stump	38	47	23.69	77	18	09.90	2,781
Prim. Trav. Sta. No. 133 B, T road east, 8 feet east of road, base of mail box; copper nail in hub. Prim. Trav. Sta. No. 134 B, T road north, 15 feet south on side	38	47	08.02	77	18	12.00	1,594
of earth bank; copper nail in hub	38	46	47.44	77	18	14.59	2,092
side of main road; copper nail in root of stump	3 8	46	57. 28	77	18	34. 56	1,869

CAPE HENRY QUADRANGLE. Along highways near Broad Creek. (By F. J. McMaugh in 1917.)

Station.]	Lati	tude.	ı	∕ong	itude.	Distance between stations.
Creek triangulation station of U. S. Coast and Geodetic Survey. On north bank of Eastern Branch of Elizabeth River, on lower point where Broad Creek enters, about 175 meters below east end of Norfolk Southern bridge over Broad Creek, on small grassy and high sandy point, marked by cement block, 8 by 8 by 24 inches, bearing brass plate with legend. Reference mark is a cement block, 8 by 8 by 24 inches, bearing brass plate with arrow, set on high ground straight down on north line of woods, distant, 19.916 M. on line 192° 51′ 15″ to right of line to station Broad. Ingleside station, road crossing, just east of. East end of trestle.	36 36 36	50 50 50		° 76 76 76	14		Feet. 1,865 1,705
North along Virginian Ry. near west bo	rder	of	quadra	ngle	в.		
Tidewater Junction, intersection of Norfolk Southern R. R. with Virginian Ry., south and east rails. Road crossing. Road crossing, concrete boulevard to Virginia Beach. Road crossing Intersection of Norfolk Southern R. R. to Cape Henry and Virginian Ry. Road crossing	36 36 36	51 51 51 51	41. 5 02. 4 12. 4 41. 6 47. 8 02. 2	76 76 76 76 76	14 14 14	37. 1 42. 3 44. 8 52. 0 53. 5 57. 1	970 2, 155 1, 031 3, 009 647 1, 478
Northeast along Norfolk South	<u></u>	R.	R.				
Road crossing Adkinson station, road crossing at, south rail joint opposite shel-	36	51	55. 4	76	14	31, 2	1,531
tor nouse Foxhall, road crossing east of. Halstead, switch point. Dennys station, road crossing east of. South rail, east bank of canal. Road crossing Steel smoke stack, about 0.6 mile northeast of Burtons station. Burtons, road crossing at. Road crossing, northwest of white house with green shutters,	36 36 36 36 36 36 36	52 52 52 52 52 52 52 53 53	00. 5 11. 8 27. 5 48. 8 50. 7 57. 1 19. 4 08. 2	76 76 76 76 76 76 76 76	14 13 13 12 12 12 12 12	25. 2 58. 8 21. 8 31. 6 27. 2 12. 0 23. 1 46. 0	1, 106 2, 429 3, 396 4, 614 409 1, 392 2, 432 3, 225
brick chinmey, picket fence to water bank, near point of curvature of railroad Road crossing, T road junction, 30 feet south of south rail. Diamond Springs station, road crossing east of Road crossing.	36 36 36 36	53 53 53 53	19. 6 23. 7 25. 9 31. 9	76 76 76 76	11 11 10 10	19. 0 04. 1 50. 8 14. 6	2,477 1,280 1,100 3,004
Road crossing Lake Smith, 50 feet east of shelter house, 15 feet south of railroad; iron post stamped "Prim. Trav. Sta. No. 1, 1917" East end of long trestle East end of short trestle, 160 feet west of road crossing. Shelton, road crossing, 40 feet east of. Beechwood, road crossing, 40 feet east of. Road crossing, southeast of frame building on piles, 0.25 mile	36 36 36 36 36	53 53 53 53 53	35. 7 38. 7 40. 6 57. 6 57. 7	76 76 76 76 76	09 09 09 08 08	53. 5 42. 8 35. 7 47. 1 15. 5	1,753 922 612 4,099 2,638
west of power house. Bayville, chimney on power house, U. S. Coast and Geodetic	36	54	06.1	76	07	32, 7	3,581
Road crossing, southeast of frame building on piles, 0.25 mile west of power house. Bayville, chimney on power house, U. S. Coast and Geodetic Survey triangulation station Bayville, road crossing near. Buchanan siding, switch point. West abutment of long trestle Lynnhaven Inlet, east abutment of trestle over. North rail opposite Third Street station. James Fishery, 20 feet north of railroad, 10 feet west of road crossing; iron post stamped "Prim. Trav. Sta. No. 2, 1917". Switch point, sand pit. Gramile station. Fitty-second Street station.	36 36 36 36 36 36	54 54 54 54 54 54	08. 4 13. 2 26. 8 27. 4 25. 5 35. 3	76 76 76 76 76 76	07 07 06 05 05 04	13. 5 07. 0 25. 7 42. 2 20. 2 26. 3	1,577 719 3,627 3,531 1,798 4,493
	36 36 36 36 36 36 36	54 54 55 55 55 55 55	42. 6 53. 7 22. 6 43. 4 39. 8 34. 3 34. 80	76 76 76 76 76 76 76	03 03 02 01 00 00	51. 7 16. 8 24. 0 22. 4 54. 8 36. 1 26. 93	2,906 3,050 5,193 5,425 2,271 1,614 749
Forty-fith Street station. Subtriangulation station. Cape Henry Lighthouse, U. S. Coast and Geodetic Survey Cape Henry Lighthouse, 10 feet north and 12 feet east of entrance; iron post stamped "Prim. Trav. Sta. No. 3, 1917," Elev. 13" Buchanan siding, about 2,400 feet northeast of, 250 feet north of railroad track, approximately 1,000 feet northeast of red bungalow, west of west end of drawbridge; Coast and Geodetic Survey tablet set in tile filled with concrete. (Paint A)	36	55	35. 02		00		27
Survey tablet set in tile filled with concrete. (Point A.) Lynnhaven Inlet, about 2,000 feet southwest of, low grassy point on west side of inlet, approximately 800 feet south of draw-	36	54	32.8	76	05	57.3	
Lynnhaven Inlet, triangle point about 1,600 feet northeast of	36 36		09.9			35. 7 05. 1	
east end of trestle over. (Point C)	υ 0	U-1	35. 5	,,,	w	JU. I	

CAPE HENRY QUADRANGLE—Continued.

South along railroad near west border of quadrangle. (By F. J. McMaugh in 1917.)

Station.	L	atit	ude.	L	ongi	tude.	Distance between stations.
Tidewater Junction, intersection of Norfolk Southern and	0	,	,,	۰	,	,,	Feet.
Virginian railroads, south and east rails	36	50	41.5	76	14	37. 1	
North end of trestle approach, Virginian Ry. bridge	36 36	50 50	18. 6 10. 9	76 76	14 14	36. 3 39. 7	2,312 833
Middle of draw	36	49	43. 4	76	14	59.6	3, 220
Short trestle	36	46 45	26. 0 54. 1	76	14 14	42.5	3,320
Watkins, point of switch at north end of siding	36 36	45 45	30. 4 12. 3	76 76		26. 9 07. 1	2,713 2,443
East along highways near south borde	r of	que	drang	le.			
Butts, 1.3 miles northeast of, 30 feet west of road, in southeast corner of yard; iron post stamped "Prim. Trav. Sta. No. 6,	00				10	07.0	
1917" Intersection of wood road northwest near county line	36 36	45 46	14. 1 08. 0	76 76	12 12	27. 0 15. 2	5, 528
Road crossing, northeast of colored church	36 36	46 47	49. 4 08. 8	76 76	11 11	32. 7 07. 9	5, 436
Culvert crossing road, white house northeast T road east	36	47	12.6	76	11	04.1	2,815 490
T road east. Barneys Corner (Thalia), crossroads at; N. 21° 30′ W., 40 feet, to southeast corner of store porch; N. 55° E., 33 feet to southwest corner of store building; N. 82° W., 55 feet, to telephone							
poleChurch	36 36	47 47	50. 7 24. 4	76 76	10 09	30. 7 55. 7	4,714 3,894
Center of small bridge about 870 feet southeast of another)			
bridgeT road west	36 36	47 46	00. 1 52. 4	76 76	09 09	32, 9 32, 2	3,086 778
T road east at two mail boxes	36	46	14. 2	76	09	13. 2	4, 163
450 feet southeast of yellow schoolhouse	36	46	01. 2	76	09	02.7	1,568
Road south along bank of reservoir, 190 feet south of pumping station.	36	45	37.7	76	08	34. 5	3,303
station Power house, 57.8 feet northeast of northeast corner of, 15.7 feet from 2 by 6 inch post at edge of road, 54 feet from 3-foot oak tree; iron post stamped "Prim. Trav. Sta. No. 7"							
oak tree; iron post stamped "Prim. Trav. Sta. No. 7" T road	36 36	45 45	37. 2 40. 4	76 76	08 08	31. 8 26. 6	223 539
Intersection of roads, T road west, 30 feet southeast to corner				1			
of wire fence, 30 feet northwest to two pine trees	36 36	46 45	05. 8 38. 0	76 76	07 07	25, 4 06, 4	5, 595 3, 207
Opposite graveyard gate Center of road at S. J. Sander's gate, 300 feet northwest of T road.	36	45	33. 1	76	06	58. 4	820
Small bridge, 35 feet northwest of, in line with center line of	36	45	25. 4	76	06	42. 8	1,490
road northeast and east edge of road northwest; nail in stake	36 36	45 45	14.8 24.3	76 76	06 05	30. 7 57. 2	1,457 2,894
T road west, at center of north and south road, 40 feet north	"	10	-1.0		•	0	2,001
of bridge over ditch, 45 feet south of mail box 32, 4 feet east of east edge of grass triangle.	36	45	35.6	76	05	32.9	2,279
of east edge of grass triangle. T road west.	36	45	55.6	76	05	36. 4	2,048
Road fork, 10 feet east of wire fence, 35 feet southwest of pine tree, in center of grass triangle, in line with north edge of							
road east.	36	46	26. 8	76	05	41.9	3, 182
Southeast along Norfolk Southern R. R.	(Cur	ritu	ck Bra	nch).		· · · · ·
Land station, road crossing, east rail.	36	46	44. 2	76	05	07.6	3, 307
Land station, 150 feet south of, 50 feet west of road crossing, at southeast corner of yard, 5 feet west and 5 feet north of							1
at southeast corner of yard, 5 feet west and 5 feet north of fence intersection; iron post stamped "Prim. Trav. Sta. 7"	36		44.1		05	08.1	49
East rail opposite milepost (M. 15. N. 13)	36	46	22: 7 19. 4	76	04 04		3,004 453
Road crossing, 360 feet northwest of house east of track			03. 3 57. 2	76	04	20. 0 12. 9	2, 224 850
Road crossing. Road crossing, about 80 feet northwest of milepost (M. 14. N. 14).			45. 2			59.0	1,665
Princess Anne, road crossing at, point on east rail, 46 feet from milepost (M. 13, N. 15)	36	45	06.7	76	03	14. 4	5, 321
milepost (M. 13. N. 15). Princess Anne, in Mrs. Bateman's yard, 200 feet from railroad				i			1
track; stake "Prim. Trav. Sta. No. 8". Road fork, near edge of north side of triangle formed by, 35 feet southwest of small fence post, in line with center of tree in yard 12 feet south of read 25 feet porthwest of read 30	90	40	08.7	76	03	13.0	237
in yard, 12 feet south of road, 25 feet northwest of road, 30 feet northeast of road; stake	36		17.1		03	04. 1	1,114
Center of larger and more westerly of two bridges	36	45	21, 1	76	02	23.8	3,301
feet southeast of T road north.		45		76	02	03. 2	1,784
Culvert, at fork of road, 100 feet east of small white house, 117 feet southeast of T road north. Center line of road, opposite Mount Zion Church. Nimno, road fork, 230 feet west of church, opposite telephone		4 5		i		39.6	1,922
	36	45	34.8	1 76	Ω1	02.4	3,558

CAPE HENRY QUADRANGLE—Continued. Southeast along Norfolk Southern R. R.—Continued.

Station.	1	ati	ude.	L	ongi	itude.	Distance between stations.
T road west, north of store, south of three mail boxes	36 36 36		56. 4	76 76	ÕÕ	54. 9 33. 6 25. 0 06. 1	Feet. 1, 893 3, 612 924 3, 094
Magnetic declination for quadrangle, 5.6° W.	36		07.8	76		00. 2	1,257
South on Ocean View electric	railr	oad					
Road crossing Road crossing near railroad station Pooles station, road crossing at Oxford station, 40feet southwest of road crossing at, 20feet south of road west; iron post stamped "Prim. Trav. Sta. No. 5, 1917".	36	55	06.3 34.7 46.5 52.6	76 76	14 14	55. 4 46. 0 38. 6 30. 8	3,285 4,912 5,487
East and south along highways to C	amd	en I	Height	3.			
Metal culvert, center of road	36	55	57.3 00.3 54.6	76	14 13 13		1,823 1,721 2,716
feet southeast to southwest corner and 20 feet northeast to northwest corner. T road north T road northwest on road northeast and southwest. T road southeast. Bridge over channel connecting two reservoirs, north end of. Grass triangle, center of. T road east to house. Cement walk to water works, middle of. T road east. Canal bridge, north end of. Dennys station, on north rail opposite center of. Road crossing, east of Dennys station (previously located). Triangulation station near shore line, Ocean View (C. & G. S. station).	36 36 36 36 36 36 36 36	54 54 54 53 53 53 53	17. 8 12. 7 58. 2 33. 5 19. 8 01. 6 53. 3 48. 6 48. 8	76 76 76 76 76 76 76 76	12 12 12 12 12 12 12 12 12 12 12 12	44. 3 32. 2 27. 0 36. 4 26. 9 05. 6 21. 1 24. 3 26. 1 29. 7 32. 1 31. 6	2,534 1,992 690 1,640 928 2,269 2,795 1,406 1,854 886 512 40

Magnetic declination for quadrangle, 5.5° W.

CHARLES CITY QUADRANGLE.

South along Chesapeake & Ohio Ry. and highways near east border of quadrangle. (By J. H. Wilson in 1916.)

	,			, -			1
Station.		Lati	tude.	L	ongi	Distance between stations.	
,		-,	,,		,		Feet.
Milepost No. 60, west bound track	37	26	13.6	77	01	08.7	
track	37	26	26.8	77	02	21.9	6,053
Chickahominy River, south end of bridge over				77		16.0	3,132
Y road east	37	24	48.3	77			7, 171
Road forks at abandoned schoolhouse, in line with T road west,	٠.		10.0	1	-	11. 1	1,111
center of road	37	24	32, 4	77	02	47.3	1,677
Adams store, 0.5 mile southwest of, center of road forks	37	$\tilde{2}\hat{3}$	28.6	77		11.7	6,743
Second-class road east	37		54.0	77		56. 1	3,717
Ruthville, center of crossroads.	37			77		29. 1	5,631
Manoah Church, in front of, center of road	37	22		77	01		7,417
Bimm's Hall, about 1 mile west of, on Ruthville road, at north-	٠.		00.0	١	01	00.0	1,411
east corner of crossroads; iron post stamped "Prim. Trav.				l			
Sta. No. 54, 1916"	37	22	22.9	77	00	18.0	4,492
Five Forks, center of triangle at		21	30.6	77	00	04.7	
Providence Forge, T road southeast, just east of old mill		26	37.8	77	02	44.4	5,399
Lane leading west to house.	37	27	38.3	77		08.3	8 794
T road east and T lane west	37	28	12.2	77		00.4	6,784
Wooden culvert over small creek	37	29	17.4	77	02	18.7	3,487
TO OUT OUT OF A CAST	01	29	11.4	l ''	04	10. /	6,763
				ı			i

CHARLES CITY QUADRANGLE-Continued.

West along highways near center of quadrangle.

Station.		Latit	ude.	L	ongi	Distance between stations.	
	·	,	,,	۰	,	,,	Feet.
Hopewell, center of road at top of rise at C. W. Jones's store	37	23	23.5	77	05	11.2	
Crossroads, at P. H. Rollison's mail box, No. 69	37	23	37.0	77	05	48.1	3,280
Ladd's store. T road west at	37	24	25.4	77	07	15.4	8,581
Roxburgh, about 3 miles south of, at southwest corner of old Samaria Church; iron post stamped "Prim. Trav. Sta. No.							
55, 1916"	.37	25	08.2	77	08	18.9	6,708
55, 1916"	37	24	21.4	77	08		4,742
Road southeast at abandoned schoolhouse	37	23	40.9	77	08	3 3. 8	4, 187
Road west at old store building, at mail box No. 14	37	22	35.1	77	09	36.0	8,330
Lane south, 12 feet northwest to cedar tree at west edge of road. Wayside, 4-foot oak tree, on south edge of road, 35 feet north-	37	22	18. 2	77	10	53. 5	6,485
westof Bimm's store	37	22	23.0	77	12	00.3	5,419
River road, at road east, center of triangle, at foot of hill to south. Malvern Hill post office, 0.5 mile southeast of, at schoolhouse,	37	22	33.9	77	13	29.5	7,285
T road south	37	22	44.4	77	14	05.5	3,099
Malvern Hill post office, about 800 feet northwest of, road forks at				1] -,
road northeast	37	23	05.0	77	14	34.3	3,123

North along highways near west border of quadrangle.

Troad west, 25 feet north to three mail boxes, on east side of road Runnimede stock farm, Troad southeast at mail box for	37	25	33. 5	77	14	27.7	6, 161
	37	26	45. 4	77	13	50.8	7, 860
	37	27	04. 9	77	12	48.9	5, 370
	37	28	21. 0	77	12	44.2	7, 705
Lone pine tree at northeast corner of road forks	37	29	05.2	77	12	45.3	4,480

Magnetic declination for east border of quadrangle, 5° 01' W.; for west border of quadrangle, 4° 37' W.; near center of quadrangle, 6° 18' W.

(By J. H. Wilson in 1916-17.)

River triangulation station, on south shore of Tar Bay, on Riverview plantation, 0.25 mile below well-marked ruins of old pier on projection into the bay. Hog-tight wire fence runs north and south to and from river 16.58 meters below station. Marked by tile and iron pipe set in cement and standing 1.5 inches above ground.		17	06.73	77	11	19.36	
Martha White's store, 575 feet east of, second-class T road E. J. Graves's store, about 200 feet northeast of, center of road forks. Road south, at 7 mail boxes on a wheel. Gee post office, center of crossroads at.	37 37	15 15	43.7 49.1	77 77 77	13 13 14	06. 1 53. 8 42. 5	5,384 8,572 3,895 4,177

Magnetic declination near southwest corner of quadrangle, 4° 33' W.

Northwest along highways near south border of quadrangle. (By Olinus Smith in 1917.)

Garysville, 0.60 mile northwest of, centre of bridge over Red Point Creek. Red Point Creek, 0.60 mile northwest of, T road east Red Point Creek, 1.60 miles northwest of, T road east Red Point Creek, 2.20 miles northwest of, T road north Closure error.	37 37 37	15 16	38.1 11:6	77 77	09 10	56.0 48.5	3, 434 5, 437 3, 126
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Magnetic declination near south border of quadrangle, 5° 50' W.

VIRGINIA. DINWIDDIE QUADRANGLE.

East along Seaboard Air Line R. R. near south border of quadrangle. (By J. C. Fales in 1918.)

Station.	L	atit	ude.	L	ongi	tude.	Distance between stations.
Milepost 45, about 1,000 feet northeast of, on southeast side of right of way; iron post stamped "Prim. Trav. Sta. No. 4, 1918" Road crossing. Timber trestle, south end of. Plank Road crossing, at center line of, east rail Milepost 42, east rail opposite. Dewitt station, opposite door of white waiting room, east rail. Road crossing, east rail. Butterworth station, opposite door of white waiting room, east rail. Milepost 40, 350 feet north of, 40 feet east of track; iron post stamped "Prim. Trav. Sta. No. 5, 1918"	37 37 37	01 01 02 02 03	35.3 03.3 11.5 42.4 10.9 26.3 06.4 15.0	° 77 77 77 77 77 77 77 77 77 77 77 77	38 38 37 37	04.0 45.8 38.5 42.9 52.5 33.0 41.1 22.6	Feet. 3, 192 1, 022 5, 480 5, 007 2, 213 5, 852 1, 734 1, 070
Along logging railroad near south bord	er o	f qı	ıadran	gle.			•
Railroad log dump across mill pond, northeast corner of Timber trestle, north end of	37	02	13.3	77 77 77	37 36 36	13.4 45.2 27.5	2,110 5,163 2,989
Along highways near south border	of qu	ıad	rangle.				
Road fork, at north edge of, two 8-inch yellow-pine trees T road, at north point of Y, three 12-inch pine trees, in inclosed triangle. Logging railroad crossing, 50 feet south of two unpainted station buildings.	37	01	24.3 09.1 59.6	77 77 77	34	00.9 28.7 54.5	7, 399 3, 031 2, 936
Along logging railroad near south bord	er o	f qu	adran	gle.			
Point of switch whence track leads northeast	37	02	18.3 04.2 05.3	77 77 77	33 32 32	35.1 44.3 00.0	2,461 6,209 3,598
Along highways near south border o	of qu	adı	rangle.				
Two-story gray house of H. L. Reeves, opposite front door of, road r road west to house, road, opposite Fitzhugh McCoy's mail box. Road, opposite three mail boxes on south side of road	37	01	41.0 11.6 56.8	77 77 77	31 30 30	28.6 52.6 34.1	3,542 4,166 2,119

Magnetic declination for south part of quadrangle, 4° 10' W.

DISPUTANTA QUADRANGLE.

In northwest corner of quadrangle. (By J. H. Wilson in 1916-17.)

Station.	1	Latit	tude.	L	ongi	tude.	Distance between stations.
Gee post office, 1.4 miles southeast of, at road north, 40 feet northeast of J. Krumel's mail box on north side of road	37	14	" 57.5	77	, 14	" 14.4	Feet.
of northwest corner of B. M. Harris's store, at road forks, at foot of mail box; iron post stamped "Prim. Trav. Sta. No. 57, 1917"	37	14	28.8	77	14	51.5	4,179

DISPUTANTA QUADRANGLE-- Continued. Southeast along Norfolk & Western Ry. in south part of quadrangle.

Station.	I	ætit	ude.	L	ongi	tude.	Distance between stations.
Disputanta, 4,000 feet northwest of depot, at overhead road crossing, on railroad embankment, on north side of track, 15 feet south of northeast corner of concrete abutment; iron post stamped "Prim. Trav. Sta. No. 58, 1917" Disputanta, road crossing at depot, middle track. Milepost 68, center of middle track. Road crossing, 2,150 feet southeast of milepost 67, west-bound track. Milepost 65, west-bound track. Milepost 65, west-bound track. Overhead road crossing, west-bound track directly under, 2,075 feet northwest of milepost 63. Milepost 62, west-bound track. Milepost 61, west-bound track. Milepost 61, west-bound track. Milepost 60, west-bound track. Milepost 60, west-bound track. Milepost 60, under track. Milepost 60, west-bound track. Milepost 60, west-bound track. Milepost 60, west-bound track. Milepost 60, west-bound track. Milepost 60, west-bound track.	37 37 37 37 37 37 37	07 06 05 05 04 03 03 02	18.3 58.5 27.0 34.2 47.5 13.7 40.3	° 77 77 77 77 77 77 77 77 77 77 77 77 77	, 14 13 13 12 11 10 09 08 07 06	33.0 53.8 11.9 01.1 30.5 42.1 21.0 09.2 17.2 25.8	Feet. 4, 100 4, 370 7, 385 3, 184 5, 050 8, 470 7, 495 5, 430 5, 365 4, 121
Waverly, 1,070 feet southeast of, road crossing, west-bound track. Waverly, 4,070 feet southeast of, road crossing, west-bound track. Road crossing, 770 feet southeast of milepost 57, west-bound track. Milepost 56, west-bound track. Crossroads, 5 miles southeast of Waverly, and 4 miles northwest of Waverlyd	37 37 37 37 37	02 01 00 00	10. 0 44. 6 57. 8 29. 7	77 77 77 77 77	05 05 03 03	39. 2 00. 3 48. 5 05. 4	740 4,070 7,500 4,510
of Wakefield Crossroads, in southeast corner of; iron post stamped "Prim. Trav. Sta. No. 132, 1904" (Bull. 245, p. 146) West along Southern Ry. (narrow gauge) and highw	37	00	47.5	76	59	39.6	7,818
	_						1
Waverly, 1 mile southwest of, at east-west road crossing, 420 feet	37		14. 57	77	05	46. 35	
northeast of sign reading "Railroad crossing 1 mile" Road crossing, 1,125 feet northeast of milepost 31 Newville Church, 550 feet west of crossroads Mailbox in front of Dr. Neblet's residence Neblet's mill, just below, center of bridge over Jones's swamp.	1 37	00	56. 6 45. 8 11. 9	77 77 77 77 77 77	07 10 12	23. 7 03. 2 37. 7 36. 8 04. 9	5,170 10,252 2,471
			adrana	gle.	•		
North along highways near west bord	er o	ı qu	_				Τ.
	ī			77		48. 8 54. 1	5,323

Magnetic declination near northwest corner of quadrangle, 4° 02′ W.; near south border of quadrangle, 2° 12′ W.; near west border of quadrangle, 4° 11′ W.

North along highways through center of quadrangle. (By Olinus Smith in 1917.)

Waverly, 4.50 miles west of, at Milton siding, under overhead road crossing on Norfolk & Western Ry., center of west-bound							
track	37	04	34. 25	77	09	20.99	
Milton siding, 1.50 miles northeast of, intersection of Baxter							
and Cabin Point roads, crossroads	37	05	24.2	77	08	35. 3	6,249
Blackwater River, bridge over, center of truss	37	06	06.1	77	08	35.6	4, 236
Blackwater River, 0.70 mile north of, T road west	37	06	41.8	77	08	29.4	3,639
Blackwater River, 1.40 miles north of, T road.	37	07	29.7	77		13.9	4,991
Otterdam Swamp, 190 feet northeast of, road fork.		08	06.1			50. 5	4,132
Otterdam Swamp, 1.00 mile north of, 14.7 feet northeast of nail in	٠.	•••		٠.	٠.		1,102
oak sapling, 16.4 feet southeast of nail in hickory sapling				Ì			
(instrument station No. 50).	37	08	58.2	77	07	41.0	5,317
Otterdam Swamp, 1.40 miles north of, at branch crossing, center	٠,	00	00.2	٠٠.	٠.	11.0	0,011
of road	37	09	17.2	77	07	51.1	2,088
T. C. Hobbs's mail box (No. 46), at road forks.	37		34. 1	77	ñ7	56.6	1,758
Hugh Williams's farm, 20 feet south of T road east, 13 feet west	٠,	00	01. 1	١.,	٠.	00.0	1,100
of center of road, inside of fence; iron post stamped "Prim.	1			}			}
Troy Sto No. 1 1017"	37	09	57.2	77	ΛQ	36, 9	4 000
Tray. Sta. No. 1, 1917" Wards Creek, center of road at	37	10	20.3	77			4,022
Wards Clerk, Centrer of Ioad at	31	10	20. 3	1 11	07	54. 8	4,118

DISPUTANTA QUADRANGLE—Continued.

North along highways through center of quadrangle. (By Olinus Smith in 1917.)—Continued.

Station.	Latitude.			L	ongi	Distance between stations.	
Wards Creek, 1.20 miles northwest of, at mail boxes 16 and 17;	۰	,	,,		,	,,	Fect.
center of crossroads. Burrows's store, intersection of Pole Run Road and road north	37	11	11.0	77	08	13. 1	5,340
to Garysville	37	11	07.2	77	08	51.5	3,139
Burrows's store, 1.70 miles northeast of, T road west	37	12	38.8	77	08	38. 2	9,313
ville and road to Burrowsville, T road	37	13		77	07	56.7	5,892
Garysville, 1 mile southeast of, f road east Garysville, 400 feet north of Burrows's store, at old mill, at road fork east, in center of triangle; iron post stamped "Prim.	37	14	27.4	77	08	19.3	6,395
Trav. Sta. No. 2, 1917"	37	14	53.7	77	09	01.8	4,345

Magnetic declination through center of quadrangle north-south, 5° 50′ W.

DOSWELL QUADRANGLE.

East along highways near south border of quadrangle. (By E. L. McNair in 1916.)

East along highways hear south porder of quadrangi-	. (10. 11. 11	1011	211 A	11 1010.	/
Station.]	Lati	tude.	L	ong	itude.	Distance between stations.
Ashland, 1 milesouthwest of, nearentrance to Maplewood Farm, in line with road toward Ashland, 20 feet west of north and south road, 15 feet south of driveway to farm, 30 feet east of southern one of two large brick monuments on either side of driveway at corner of field; iron post stamped "Prim. Trav. Sta. No. 29, 1916" Ashland station, about 400 feet south of, street crossing Richmond, Fredericksburg & Potomac R. R.; center of double track T road south Road forks. Road forks, road southwest to Richmond. Second-class road northwest, at angle in main road. Blanton flag station, road crossing, Chesapeake & Ohio Ry. track. Crossroads, near Hanover schoolhouse and church Hanover Courthouse (built in 1735), 130 feet in front of, 25 feet northwest of gate at main entrance to courthouse grounds, 1.5 feet outside of fron fence, 110 feet south from soldiers' monu-	37 37 37 37 37 37 37 37	45	35. 4 42. 1 03. 3 26. 0	77 77 77 77 77 77 77	28 27 26 24 23	50. 1 29. 5 44. 8 22. 0 58. 2 01. 0 11. 8	5,413 6,479 3,652 12,125 2,994 4,794 4,218
feet outside of iron fence, 110 feet south from soldiers' monu- ment, across road from hotel; iron post stamped "Prim. Trav. Sta. No. 30, 1916" Road forks, road south. Etna Mills post office, crossroads at (tie point).	37 37 37	45 45 45	46. 7 04. 8 56. 6	77 77 77	21	59. 8 20. 3 00. 0	1,239 5,294
Along highways diagonally east to west through south	par	t of	north	half	of	quadra	ingle.
Road forks. T road (private) at mail box. Forks of road about 500 feet west of brick house. T road west, second-class road south. Road forks, west end of grass triangleat, near old schoolhouse. T road corners, roads north, south, and east. Road forks, T road north Road forks, T road north Doswell, about 7 miles east of, 6 miles north of Hanover Court-	37 37 37 37 37 37	52 52 52 52 51 51 51 51	37. 3 49. 2 36. 4 27. 3 41. 6 43. 2 20. 8 19. 0	77 77 77 77 77 77 77	15 17 17 18 19 20	00. 2 58. 3 08. 9 19. 1 50. 6 49. 7 42. 3 09. 4	4,809 5,813 1,227 8,675 4,745 4,789 2,181
house, on old Washington-Richmond stage road, 20 feet west of center of road, in line with road east to Point Eastern, about 400 feet north of old Needwood Tavern; iron post stamped "Prim. Trav. Sta. No. 35, 1916". Road forks, road northeast	37	50 51 51 51 51	54. 0 37. 7 30. 3 18. 6 00. 0	77 77 77 77 77 77		08. 9 44. 3 45. 4 20. 4 17. 1	5,404 5,255 4,956 3,054 4,916
Caroline and Hanover counties				1			· '
crossing, railroad track. Doswell, intersection of Richmond, Fredericksburg & Potomac	37	50	54.6	77	26	39.6	4,826
and Chesapeake & Ohioralirond tracks at. Doswell post office, 0.75 mile west of, 20 feet north and 25 feet west of intersection of crossroads, on bank at edge of woods, south of Doswell School; iron post stamped "Prim. Trav.	37	51	33.6	77	27	29.8	5,639
Sta. No. 36, 1916"	37 37	51 51	37.6 33.6 ·	77 77	27 28	54. 3 39. 6	2,003 3,654

DOSWELL QUADRANGLE—Continued.

Along highways near west border in southwest corner of quadrangle.

Road forks	Feet. 2,44 2,6 3,5 2,8
Road forks	2, 4 2, 6 1, 7 1, 7 1, 9 3, 9 1, 4, 6 3, 5
Road forks	2, 4 2, 6 1, 7 1, 7 1, 9 3, 9 1, 4, 6 3, 5
Along highways near east border of quadrangle (south two-thirds of quadrangle). Primary Traverse Station No. 34. 37 52 01.1 77 14 49.0 Road forks. 37 50 59.4 77 15 46.0 Road forks, south end of triangle at. 37 50 47.0 77 15 31.0 Road forks, south end of triangle at. 37 50 47.0 77 15 31.0 Road forks, point is in line with roads east and south. 37 49 38.8 77 15 22.4 Road forks, point is in line with roads east and south. 37 49 38.8 77 15 20.9 Troad northwest. 37 49 49.8 37.8 15 20.9 Mangohick, crossroads at. 37 49 40.8 35.6 77 16 02.2 Mangohick, crossroads at. 37 49 38.8 77 15 20.9 Mangohick, crossroads at. 37 49 38.8 37.1 5 20.9 Mangohick, crossroads at. 37 49 30.1 77 15 38.6 Road forks 20 feet west of oak tree at north end of triangle formed by roads, in line with road east. 37 48 30.4 77 15 49.5 Hebron Church, T road south in front of. 37 48 30.4 77 15 38.6 Road forks. 37 47 40.0 77 15 26.2 Troad east. 37 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. 37 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. 37 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. 37 45 56.6 77 16 00.0 Magnetic declination for south border of quadrangle, 5° 05′ W.; for south Pagnature, 5° 10′ W.; for south Pagnature, 5° 10′ W.; for southwest corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, 0.75 mile north of, at north end of long siding, center of double track. 37 53 18.3 7 27 43.5 Richmond, Fredericksburg & Potomac R. R., ander overhead wagon bridge, center of track. 37 53 54.1 77 27 33.7 Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. 37 55 42.1 77 27 21.9 Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. 37 55 40.2 77 27 14.4 Overhead bridge, center of track, in section-house yard, just inside corner of fence, iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead	2,6
Along highways near east border of quadrangle (south two-thirds of quadrangle). Primary Traverse Station No. 34. 37 52 01.1 77 14 49.0 Road forks. 37 50 59.4 77 15 46.0 Road forks, south end of triangle at. 37 50 47.0 77 15 31.0 Road forks, south end of triangle at. 37 50 47.0 77 15 31.0 Road forks, point is in line with roads east and south. 37 49 38.8 77 15 22.4 Road forks, point is in line with roads east and south. 37 49 38.8 77 15 20.9 Troad northwest. 37 49 49.8 37.8 15 20.9 Mangohick, crossroads at. 37 49 40.8 35.6 77 16 02.2 Mangohick, crossroads at. 37 49 38.8 77 15 20.9 Mangohick, crossroads at. 37 49 38.8 37.1 5 20.9 Mangohick, crossroads at. 37 49 30.1 77 15 38.6 Road forks 20 feet west of oak tree at north end of triangle formed by roads, in line with road east. 37 48 30.4 77 15 49.5 Hebron Church, T road south in front of. 37 48 30.4 77 15 38.6 Road forks. 37 47 40.0 77 15 26.2 Troad east. 37 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. 37 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. 37 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. 37 45 56.6 77 16 00.0 Magnetic declination for south border of quadrangle, 5° 05′ W.; for south Pagnature, 5° 10′ W.; for south Pagnature, 5° 10′ W.; for southwest corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, 0.75 mile north of, at north end of long siding, center of double track. 37 53 18.3 7 27 43.5 Richmond, Fredericksburg & Potomac R. R., ander overhead wagon bridge, center of track. 37 53 54.1 77 27 33.7 Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. 37 55 42.1 77 27 21.9 Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. 37 55 40.2 77 27 14.4 Overhead bridge, center of track, in section-house yard, just inside corner of fence, iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead	2,6
Primary Traverse Station No. 34	1,9 3,9 1,4 4,6 3,5
Road forks	1,9 3,9 1,4 4,6 3,5
Road forks	1,9 3,9 1,4 4,6 3,5
Hebron Church, T road south in front of. 37 48 01.2 77 15 38.6 Road forks. 37 47 40.0 77 15 26.2 Troad east. 37 46 52.1 77 15 28.2 Etna Mills post office, crossroads at. 37 45 56.6 77 16 00.0 Magnetic declination for south border of quadrangle, 5° 05′ W.; for south the quadrangle, 5° 10′ W.; for southwest corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. 37 51 33.6 77 27 29.8 Doswell station, 0.75 mile north of, at north end of long siding, center of double track	1,9 3,9 1,4 4,6 3,5
Hebron Church, T road south in front of. Road forks. T road east. Road forks. 37 48 01.2 77 15 38.6 Road forks. 37 46 40.0 77 15 26.2 Troad east. 38 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. Magnetic declination for south border of quadrangle, 5° 05′ W.; for south broad for triangle, 5° 00′ W.; for south broad for triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track opposite. South Anna bridge, center of. Richmond, Fredericksburg & Potomac R. R., under overhead wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road orossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track.	1,4 4,6 3,5
Hebron Church, T road south in front of. Road forks. T road east. Road forks. 37 48 01.2 77 15 38.6 Road forks. 37 46 40.0 77 15 26.2 Troad east. 38 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. Magnetic declination for south border of quadrangle, 5° 05′ W.; for south broad for triangle, 5° 00′ W.; for south broad for triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track opposite. South Anna bridge, center of. Richmond, Fredericksburg & Potomac R. R., under overhead wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road orossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track.	1,4 4,6 3,5
Hebron Church, T road south in front of. Road forks. T road east. Road forks. 37 48 01.2 77 15 38.6 Road forks. 37 46 40.0 77 15 26.2 Troad east. 38 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. Magnetic declination for south border of quadrangle, 5° 05′ W.; for south broad for triangle, 5° 00′ W.; for south broad for triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track opposite. South Anna bridge, center of. Richmond, Fredericksburg & Potomac R. R., under overhead wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road orossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track.	4, 6 3, 5
Hebron Church, T road south in front of	3,5
Hebron Church, T road south in front of. Road forks. T road east. Road forks. 37 48 01.2 77 15 38.6 Road forks. 37 46 40.0 77 15 26.2 Troad east. 38 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. Magnetic declination for south border of quadrangle, 5° 05′ W.; for south broad for triangle, 5° 00′ W.; for south broad for triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track opposite. South Anna bridge, center of. Richmond, Fredericksburg & Potomac R. R., under overhead wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road orossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track.	
Hebron Church, T road south in front of. Road forks. T road east. Road forks. 37 48 01.2 77 15 38.6 Road forks. 37 46 40.0 77 15 26.2 Troad east. 38 46 52.1 77 15 43.9 Etna Mills post office, crossroads at. Magnetic declination for south border of quadrangle, 5° 05′ W.; for south broad for triangle, 5° 00′ W.; for south broad for triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track opposite. South Anna bridge, center of. Richmond, Fredericksburg & Potomac R. R., under overhead wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track. R. R., road orossing; center of track. R. R., road crossing; center of track. R. R., road crossing; center of track.	
Magnetic declination for south border of quadrangle, 5° 05′ W.; for south requadrangle, 5° 10′ W.; for southwest corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track. South two-thirds, and the state of the state o	3,0
Magnetic declination for south border of quadrangle, 5° 05′ W.; for south requadrangle, 5° 10′ W.; for southwest corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track. South two-thirds, and the state of the state o	2,3
Magnetic declination for south border of quadrangle, 5° 05′ W.; for south requadrangle, 5° 10′ W.; for south west corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks. Doswell station, 0.75 mile north of, at north end of long siding, center of double track. Schemond, Fredericksburg & Potomac R. R., center of double track opposite. North Anna bridge, center of. Sichmond, Fredericksburg & Potomac R. R., under overhead wagon bridge, center of track. Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track. Schemond, Fredericksburg & Potomac R. R., on R., on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R., or Station, on Richmond, Fredericksburg & Potomac R. R.,	5,0
quadrangle, 5° 10′ W.; for southwest corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks	5,7
quadrangle, 5° 10′ W.; for southwest corner of triangle, 5° 00′ W.; for east 1 (south two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks	alf
South two-thirds) of quadrangle, 4° 50′ W. North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks	
North along highways and railroad near west border of north half of quadrangle. Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks	orae
Doswell station, intersection of Richmond, Fredericksburg & Potomac and Chesapeake & Ohiorailroad tracks	
Doswell station, 0.75 mile north of, at north end of long siding, center of double track	
Doswell station, 0.75 mile north of, at north end of long siding, center of double track	
center of double track. Milepost 25, Richmond, Fredericksburg & Potomac R. R., center of double track opposite. 37 52 40.2 37 53 18.3 Rothmond, Fredericksburg & Potomac R. R., under overhead wagon bridge, center of track. 37 53 18.3 Rothmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. 37 53 54.1 Rothmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. 37 55 42.1 Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" 37 55 45.7 Rothmond, Fredericksburg & Potomac R. R. track under. 37 56 42.3 Rothmond, Bredericksburg & Potomac R. R., road crossing; center of track. 37 57 33.2 Rothmond, R. R., road crossing; center of track. 37 57 33.2 Rothmond, R. R., road crossing; center of track. 37 57 33.2 Rothmond, R. R., road crossing; center of track. 37 57 33.2 Rothmond, R. R., road crossing; center of track. 37 57 33.2 Rothmond, R. R., road crossing; center of track. 37 57 33.2 Rothmond, Rothmon	-;
Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under. Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track.	
Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under. Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track.	•
Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under. Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track.	2,8 3,9
Richmond, Fredericksburg & Potomac R. R., under overhead concrete wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under. Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track.	0,0
concrete wagon bridge, center of track. Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under. Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track.	3,7
Ruther Glen, about 30 feet northeast of corner of station, 30 feet northwest of center of track, in section-house yard, just inside corner of fence; iron post stamped "Prim. Trav. Sta. No. 37, 1916" 37 55 45.7 77 27 14.4 Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under. 37 56 42.3 77 26 40.2 Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track. 37 57 33.2 77 25 47.8	
No. 37, 1916"	11,2
No. 37, 1916. Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under	
No. 37, 1916. Overhead bridge, center of Richmond, Fredericksburg & Potomac R. R. track under	
Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track	6
Coleman flag station, on Richmond, Fredericksburg & Potomac R. R., road crossing; center of track	
R. R., road crossing; center of track	6,3
George flag station, on Richmond, Fredericksburg & Potomac R. R., center of crossing at	6,6
R. R., center of crossing at	•
Mattaponi River, center of iron girder bridge over	8,4
	3, 9 4, 7 5, 2 2, 3 6, 1
Penola station, public-road crossing at 37 57 26.4 77 22 15.2 Road forks, second-class road northeast 37 58 07.4 77 22 54.4	4,7
Crossroads	2, 3
Crossroads, second class	6, 1
Crossroads, second class	3,9
Penola, 3.75 miles northwest of, near forks of road south to	
nailin root of locust tree, shed painted U.S.B.M. 20"	
Road forks, 20 feet east of large oak tree	1.4
Along highways near north border of quadrangle (spur line).	1, 4 2, 4
Balty post office and store, 50 feet southwest of, 50 feet west of	1, 4 2, 4
bank; iron post stamped "Prim. Trav. Sta. No. 38, 1916" 37 59 51.9 77 26 45.0	1, 4 2, 4
Along highways near north border of quadrangle (main line).	1, 4 2, 4
Picadee Road Forks, road. 37 59 57.4 77 19 17.1	1,42,4
Road forks 37 59 49.3 77 19 00.0	2, 4
Road forks 37 59 06.7 77 17 56.8	2, 4
ا مسم سسوا سسم مسسما	2, 4
Road forks 37 59 07.5 77 17 07.3 Road forks, second-class road northwest 37 59 20.0 77 16 24.8	2, 4

Magnetic declination near west border of quadrangle, 5° 20′ W.; near north border of quadrangle, 5° 20′ W.

HOLLAND QUADRANGLE.

Northwest along Virginian Ry. across northeast corner of quadrangle. (By J. J. Charters in 1918.)

Station.	1	atit	tude.	L	ong	itude.	Distance between stations.
Boaz, road crossing. Boaz, 74 feet south of southeast corner of station, at edge of small growth of cedar and pine trees; iron post stamped "Prim. Trav, Sta. No. 6, 1918 C". Opposite milepost 35.	36	, 44	" 48.7	。 76	, 45	" 43. 5	Feet.
Trav. Sta. No. 6, 1918 C''. Opposite milepost 35.	36 36	44 44	49. 1 59. 6	76 76	45 47	54. 5 09. 9	6, 232
South along highways near east border of quadran	gle.	(B	Ву J. J.	Phe	lan	in 1918	.)
Road crossing, 100 feet east of milepost 28, south rail Road crossing, south rail Holland, crossing of Main Street, south rail of main line, 5 feet	36 36	41 40	10. 0 53. 4	76 76	45 46	14. 5 33. 1	6,619
Road crossing, south rail Holland, crossing of Main Street, south rail of main line, 5 feet west of center of road Junction of Drumbill and Holland and Franklin roads, north advant Franklin road	36	40	49. 2	76	46	53.0	1,671
edge of Franklin road. T road east. Center of triangle formed by junction of three roads East side of road, 15 feet north of Bush railing at north end of	36 36 36	40 38 38	26. 6 33. 7 25. 2	76 76 76	47 47 47	11. 5 03. 4 01. 2	2,750 11,442 882
of bridge, 51eet from edge of approach to bridge	36	37	54. 5	76	46	37.8	3,655
from corner fence post	36	37	35. 4	76	46	20.0	2,410
Drumhill Holly Neck School, 340 feet east of first T road east of, 6 feet from well at Mr. Hayes's house; iron post stamped "Prim. Trav. Sta. No. 6 P, 1918". T road north. T road junction, 25 feet from corner of picket fence. Center of culvert. Center of small culvert	36	36	45.6	76	46	51, 2	5,646
Trav. Sta. No. 6 P, 1918"	36 36	36 36	47. 6 54. 2	76 76	46 45	47.6 31.3	340 6,253
T road junction, 25 feet from corner of picket fence. Center of culvert. Center of small culvert.	36 36 36	36 36 35	55. 1 31. 9 43. 2	76 76 76	45 45 45	20. 5 11. 9 16. 0	874 2,447 4,945
Center of intersection of three roads, 12 feet from corner fence post on west, 65 feet from mail box 42. East end of bridge. Center of crossroads, roads running north and south and east	36 36	35 34	10.9 36.6	76 76	45 45	39. 7 58. 4	3,802 3,797
and west. Somerton, T road, 12 feet from Longton's mail box. Center of T road southeast, 30 feet from a point 6 feet north of	36 36	34 34	11. 2 06. 9	76 76	45 45	58. 9 04. 2	2,575 4,464
mail box 26.	36	33	36. 5	76	45	04.1	3,080
West along Southern R	у.						
East end of bridge, south rail Road crossing, south rail Crossing of road to Cleopus, south rail.	36 36 36	40 40 40	41. 8 39. 6 37. 1	76 76 76	47 47 48	29. 8 53. 6 39. 7	3, 096 1, 951 3, 760
East end of bridge, south rail. Crossing of road to Cleopus, south rail. Elwood, 136 feet west of east end of station, road crossing, south rail. East end of bridge. Road crossing, south rail.	36 36 36 36	40 40 40 40	34. 4 33. 2 31. 5 30. 3	76 76 76 76	49 49 50 50	28, 2 51, 5 21, 7 43, 4	3,960 1,906 2,466 1,767 4,663
Road crossing, south rail. Road crossing, south rail. Road crossing, 82 feet west of milepost 34, south rail. Milepost 35, south rail opposite. Lees Mill, 69 feet east of east end of station, road crossing, south rail.	36 36	40 40	27. 5 33. 9	76 76	51 52	40. 5 43. 7	5, 190
East end of viaduct over Seaboard Air Line Ry., north rail	36 36 36 36	40 40 41 40	41. 4 55. 0 05. 3 55. 9	76 76 76 76	53 54 54 55	35. 5 11. 0 33. 6 09. 2	4, 291 3, 204 2, 116 3, 055
Franklin, point of frog of switch from Southern Ry. to "joint account" track to Scaboard Air Line Ry. Road crossing, south rail. Road crossing, south rail. Isaac, 49 feet southeast of east end of station, road crossing, south	36 36 36	40 40 41	51. 6 55. 4 05. 5	76 76 76	55 55 56	21. 8 47. 8 33. 0	1,109 2,158 3,817
rail. East end of bridge A. D. 41.2, north rail. Road crossing. East end of bridge 41.7, north rail.	36 36 36 36	41 42 42 42	40. 3 01. 7 01. 3 00. 6	76 76 76 76	57 58 59 59	57. 5 56. 6 05. 1 29. 1	7,729 5,278 689 1,956
· · · · · · · · · · · · · · · · · · ·							

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

HOLLAND QUADRANGLE—Continued.

Northeast along Seaboard Air Line Ry. (By J. J. Phelan in 1918.)

Station.	Latitude.			L	Distance between stations.		
Delegrane about 1 500 feet cont efectation at read a receiper north	,	,			,		Fect.
Delaware, about 1,500 feet east of station, at road c.ossing; north rail	36	39	01.5	76	59	50.9	rect.
Road crossing, north rail.	36	39	12.5	76	59	14.1	3, 194
Road crossing, north rail. West end of stone culvert, north rail. Road crossing, 477 feet west of milepost 40, north rail. Opposite milepost 39, north rail.	.36	39	17.2	76	59	00. 2	1, 231
Road crossing, 477 feet west of milepost 40, north rail	36	39	30.8	76	58	20. 2	1 3.544
Opposite milepost 39, north rail	36	39	55.7	76	57	07.4	6, 444 6, 203
Road crossing. Franklin, High Street, 35 feet north of main line of Seaboard Air Line Ry., 3 feet west of west side of walk; iron post stamped "Prim. Trav. Sta. No. 7, 1918 P" Franklin, intersection of Fourth Avenue and High Street	36	40	19.6	76	55	57.3	6,203
"Prim. Trav. Sta. No. 7, 1918 P"	36	40	31.7	76	55	28. 1	2,675
Frankin, 4 feet east of east end of Southern Ry. Station, South	36 36	40 40	40. 0 52. 4	76 76	55 55	34. 4 29. 2	1,322
rail	30	40	02. 4	10		20.2	1,022
South along highways near center of	qua	dra	ngle.				
Elwood, center of road crossing at, south rail	36	40	34. 4	76	49	28. 2	
road south	36	40	17. 2	76	49	15.7	2,014
T road	36	39	45. 7	76	49	49.7	4, 221
T road Road fork, center of Holland-Franklin road, in line with road to Elwood	36	39	20. 2	76	50	27. 2	3,997
Crossroads, Franklin-Holy Neck and Holland-Murfreesboro roads, 6 feet southwest of Center of pipe culvert. T road southeast Center of pipe culvert under road. T road north. Angle in road at point where Cleopus road leaves Factoryville-Suffolk road. Center of small culvert at edge of field. T road south. T road south. T road north, well traveled. Cleopus, center of small culvert, near a small sawmill which constitutes the town, point in road.		00		-		01.4	1
roads, 6 feet southwest of	36 36	39 38	04. 9	76 76	51 51	01. 4 26. 4	3,200
T road sout heast	36	38	42. 9 26. 7	76	51	47, 4	3, 020 2, 372 2, 430
Center of pipe culvert under road	36	38	07. 1	76	52	04.6	2,430
T road north	36	37	07.1	76	52	10.6	6,083
Angle in road at point where Cleopus road leaves Factoryville-							1
Sulfolk road	36 36	36 36	40.6	76 76	52 51	12. 3 58. 4	2,685 1,916
T road south	36	35	25. 3 53. 8	76	50	20. 1	8, 633
T road north, well traveled	36	35	49.8	76	50	06. 1	1, 255
Cleopus, center of small culvert, near a small sawmill which con-				1			1
clicipus, cente of sinair cavets, ironad. Cleopus, 2,392 feet south of, west side of road, across from T road east through woods; iron post stamped "Prim. Trav. Sta. No. 8 P, 1918". Crossroads. Culvert under road.	36	35	38. 4	76	49	53.4	1,550
east through woods iron nost stamped "Prim. Tray. Sta							
No. 8 P. 1918".	36	35	19.1	76	49	36. 5	2,392
Crossroads	36	35	12.4	76	49	30. 2	850
Culvert under road	36	34	54. 5	76	50	13, 2	3,950
Center line of road, 10 feet in front of Carolina Johnson's mail box, in front of small one-story house with two large chimneys	36	34	49. 9	76	50	24, 2	1,010
Crossroads, 18 feet from Howell mail hox	36	34	17.6	76	51	38. 4	6,885
Crossroads, 18 feet from Howell mail box South edge of road, opposite east end of bridge over small river	36			76	51	41. 4	6, 885 5, 374
North along highways near west bord	er o	f qu	ıadran	gle.			
Isaac, 49 feet east of east end of station, road crossing	36	41	40.3	76	57	57.5	
Isaac, 49 feet east of east end of station, road crossing Joyners Church, at T road, 10 feet from milepost 2, in root of large		,,	05.0			40.0	
	36	42	05. 9	76	57	42.0	2, 886 4, 583
road northwest	36 36	42 43	49. 0 02. 0	76 76	57 57	59. 4 58. 6	1,323
cast tree; nau. T road northeast. T road northwest. Side of road, in front of meeting house, 50 feet across road from school. Center of crossroads. T road east. Center of small bridge, directly over center pier and 18 feet from north end.	36	43	21. 1	76	57	53.8	1,975
Center of crossroads	36	43	54. 4	76	57	16.8	4,519
T road east	36	44	12. 4	76	56	44.0	3, 230
north end	36	44	28. 5	76	56	18.8	2, 617
Southwest along highways from Delay	vare	to	Sunbe	ım.			
	Τ.			1		14.1	
Delaware, about 1 mile east of road crossing, north rail	36	39	12. 5	76	59	14. 1	
Delaware, about 1 mile east of road crossing, north rail	36 36 36	39 38 37	12. 5 05. 3	76 76 76	58 58	58. 4 56. 2	6,99

VIRGINIA.

HOLLAND QUADRANGLE—Continued. Southwest along highways from Delaware to Sanderson.

Station.	Latitude.	Longitude.	Distance between stations.
Monroe bridge over Nottoway River, 12 feet northeast of northeast end of approach to, on west edge of embankment. Monroe bridge over Nottoway River, 12 feet southwest of southwest end of, on south edge of embankment.	% , ,, 36 37 00.8 36 35 53.5		Feet. 6, 685 830

Magnetic declination through center of quadrangle, 4.2° W.; in northwest part of quadrangle, 4.3° W.

North along highways near east border of quadrangle.

	1			1			1
Holland, at first crossing on Main Street east of, 15 feet southwest of corner fence post, 27 feet northwest of corner fence post	36 36	40 41				37. 2 03. 6	2,883
Holland, 1.5 miles northeast of, at T road south, 40 feet east of tree with sign reading "1½ miles to I. A. Lukes," on north edge of road	1	41	12.3	76	45	40, 9	1.887
T road southwest, poorly traveled, in angle of	36		37.8	76	45	05. 2	1,
, , , , , , , , , , , , , , , , , , , ,							

Magnetic declination for north half of east border of quadrangle, 5.5° W.

EMPORIA QUADRANGLE.

Along Southern Ry. west from Emporia. (By J. C. Fales in 1918.)

Along Southern Ry. West from Emporia. (By J. C.	ra	ies i	n 1918.))					
Station.	Latitude.			Latitude. Long					Distance between stations.
Water tank, north rail opposite spout of (distance from P. T. S. 6) Milepost 75, center line of track opposite Milepost 76, south rail opposite. Milepost 77, south rail opposite. Durand, south rail opposite shelter at Milepost 78, south rail opposite. Crossing of Emporia-Lawrenceville road, 90 feet east of logging road switch; north rail at. Milepost 80, north rail opposite.	36 36 36 36 36 36	42 42 43 43 43 43	18.8 48.6 17.8 21.5 23.6 35.1 15.7	77 77 77 77 77	33 34 35 35 36 37 38	40. 1 38. 6 33. 1 27. 1 50. 6 31. 0 14. 9 19. 6 52. 2	Feet. 6,070 5,365 5,296 1,950 3,300 3,750 6,676		
Milepost 85, north rail opposite. Racume depot, north rail opposite. South along highways near west border	36		53.8	77 77		21.1	2,371		
	l			Τ					
Meherrin River, north end of steel bridge across			50.0	77		57.5			
rail at east edge of road Timber bridge, 90 feet long, north end of Barley, T road west at J. F. Norwood's store.	36 36 36	34 33	13. 2 49. 7	77 77 77		27.9 25.4 28.0	5, 276 5, 258		
South along Atlantic Coast Line R. R. near east border of	qua	adre	ingle.	(Ву	J.	C. Fal	es in 1918.)		
Road crossing, 100 feet west of two unpainted unused buildings. Milepost 60, east rail of south-bound track opposite. Semaphore 610, east rail of south-bound track opposite. Semaphore 621, east rail of south-bound track opposite. North Emporia, 400 feet north of intersection of Atlantic Coast Line and Southern railroads, 12 feet west of west rail of south- bound Atlantic Coast Line track, 20 feet south of semaphore on west side of track; iron post stamped 'Prim. Trav. Sta. No. 6,	36 36	43 42	23. 2 34. 5 57. 0 12. 8	77	30 31	06.3 44.2 11.4 43.4	5,809 4,400 5,170		
1918, 103". Emporia depot, 9 feet south of door of white waiting room,	36	41	45.7	77	32	03.2	3,180		
joint in west rail of north-bound track. Emporia, crossing of center line of Park Street. Milepost 64, center line of north-bound track opposite.	36	41	08.5		32	12.9 30.9 46.6	1,572 2,815 3,009		

EMPORIA QUADRANGLE-Continued.

South along Atlantic Coast Line R. R. near east border of quadrangle—Continued.

									
Station.	L	Latitude.				Longitude.			
Milepost 65, west rail of northbound track opposite Milepost 66, west rail of northbound track opposite Emporia-Graysburg road, crossing of. Milepost 68, east rail of northbound track. Skippers post office, road crossing at. Milepost 70, east rail of southbound track. Milepost 71, east rail of southbound track. Dahlia Spur, road crossing at. Virginja-North Carolina State line, crossing of, on east rail.	36 36 36 36 36 36 36 36 36	39 38 38 37 36 35 34 33 32	50. 4 59. 3 22. 2 17. 0 42. 5 38. 1 46. 4 59. 2 42. 6	77 77 77 77 77 77 77 77	33 33 33 32 32 32 32 32 31	03.4 19.9 28.8 10.0 51.3 27.1 32.2 16.5 49.7	Feet. 5,350 5,345 3,817 6,770 3,810 6,807 5,250 4,944 8,050		
Magnetic declination for west border of quadrangl East along Southern Ry. from Emporia. (B	•			r in :	1918.	.)	"		
Emporia, intersection of west rail of west track of Atlantic Coast Line R. R. and north rail of Southern Ry Trestle, southwest end of Milepost 72, north rail opposite. Culvert.	36 36 36 36	41 41 42 42	42.3 50.5 03.8 09.7	77 77 77 77	32 31 30 30	05.5 24.9 49.0 09.0	3,411 3,214 3,314		
Southwest from Emporia along highways through center of	' qua	dra	ingle.	(B3	, J.	C. Fal	es in 1918.)		
Road, opposite sign reading ''2 miles to First National Bank" Fork west Road, opposite sign reading ''4 miles to Everett's department	36 36	40 39	11.0 51.5	77 77	33 34	33.7 17.9	4,115		
store" Railroad crossing on Hitchcock Branch of Southern Ry. T road east through woods T road to two-story unpainted house 300 feet east. Schoolhouse, new, light brown, 150 feet east of road, road	36 36 36 36	39 38 38 37	19.0 59.6 31.1 48.4	77 77 77 77 77	35 36 36 37	33.0 05.9 37.0 27.4	6,956 3,331 3,847 5,973		
opposite door of Brink store and post office, crossroads at T road west to unpainted house, 250 feet west. Brink, 1.75 miles southwest of in southwest corner of Fountain Creek Church yard, large unpainted building, 100 feet south of, 20 feet west of center line of road; iron post stamped "Prim.	36 36 36	37 37 36	20.3 04.7 39.6	77 77 77	37 38 39	43.5 05.2 09.2	3,139 2,378 5,810		
Trav. Sta. No. 14, 1918" Troad east past dismantled house 300 feet east of road. Troad west through woods. Two gate posts (no gate) at entrance to unpainted two-story house 150 feet west, west edge of road opposite.	130	36 36 35	30. 2 06. 3 49. 1	77 77 77	39 41 41	44.8	3,056 6,986 3,677		
house 150 feet west, west edge of road opposite. Barley, T road west at J. F. Norwood's store.	36 36	35 33	22.6 49.7	77 77	42 43	12. 5 28. 0	3,510 11,228		
East along highways from west border to	cente	er o	f quad	ran	gle.				
T road north past unpainted negro house	36	39	58.3	77	44	41.9	Ī		
Troad north past unpainted negro house. Wagon gate to two-story white house of Bert Mitchell, road opposite. Ante, crossroads at. Largefront gate to two story white house of Cortle 200 feet south of road, south edge of road opposite.	36 36	39 39	48. 3 53. 8	77	43 43	34. 9 10. 5	5,555 2,065		
ofroad, south edge ofroad opposite. Harris store, at junction of Emporia-Lawrenceville road and road to Brink post office, atsouthwest corner of road T; iron post stamped "Prim. Trav. Sta. No. 26, 1918"	36	39	57.1	77		19.9	4,136		
Two gate nosts 10 feet apart, at southeast corner of cornfield:	36 36	40 39	46.3	77	41	17. 2 09. 8	5,170 2,003		
pointin road between Large wooden gate at entrance to farm yard of J. H. Newsome. T road. Small stream. Timber bridge 100 feet by 16 feet, north end of, at center line.	36 36	39 39 38 37	32. 1 11. 2 24. 7 59. 4	77 77 77 77	40 39 38 38	17. 1 21. 7 55. 9 44. 3	4,523 4,986 5,150 2,732		
Brink store and post office, northeast corner of crossroads at; iron post stamped "Prim. Trav. Sta. No. 27, 1918"	36	37	04. 9	77	38	04.7	6,387		

Magnetic declination for center of quadrangle, 3° 40' W.; for west part of quadrangle, 4° 00' W.

VIRGINIA.

EMPORIA QUADRANGLE-Continued.

Along railroad and highways through center of quadrangle. (By H. J. Switzer in 1918.)

Station.	Latitude.			L	tudo.	Distance between stations.	
Prim. Trav. Sta. No. 6, 1918, at Emporia (see other lists). Emporia, Brunswick Avenuecrossing, east rail of west track. Road crossing, center of east track. Road crossing, west rail of west track. Road fork south. Road south.	36		45. 70 30. 6 55. 7 36. 4 48. 9 26. 2	77 77 77 77 77 77	32 32 32 32 32 31 31	03. 20 14. 3 39. 6 48. 8 56. 2 07. 6	Feet. 1,777 4,084 2,094 6,436 4,578

HEATHSVILLE QUADRANGLE.

The following geographic positions in the Heathsville quadrangle were determined by E. L. McNair in 1916 and are based on the positions of the U. S. Coast and Geodetic Survey stations Hack and Great Wicomico Lighthouse.

South along highways through center of quadrangle.

Station.	Latitude.			titude. Longitude.		Distance between stations.	
Hack triangulation station (U. S. C. & G. S.) This station apparently never had a permanent mark, as no description is given with its position. A few rotten pieces of timber on a slight knoll on bank of Potomac indicate approximate location. The highest part of knoll was taken as position. A local resident thought the original place was about 20 feet farther east, on ground about 4 feet lower. On account of the uncertain location it was decided to connect with Wicomico Lighthouse, a line to which starts from station 494. T road corners. Troad corners. Crossroads at Gonyon post office. Blundon's store, center of road in front of. Burgess store and post office, Troad corners at, 15 feet northand 10 feet east of, 7 feet from fenceline, in line with road southwesterly to ferry; iron post stamped "Prim. Trav. Sta. No. 7, 1916". (Destroyed in 1917). Forks of road. Globe Point, north side of Great Wicomico River, 135 feet northeast of ferry landing, 10 feet east of froadway, in root of oak tree; copper nail, painted "U. S. B. M. 9". Troad westerly, second class. Troad corners. Troad corners at Wicomico Church, in line with road south and road west, 10 feet southwest of corner of Snow's store. Second-c'assroad east, at angle in main road. Crossroads. Center of small bridge. Forks of road, 120 feet from store door. Rehoboth Church (store and post office), 30 feet north and 20 feet east of T road corners at, on bank 35 feet southwest of corner of store building, 3 feet from telephone pole; iron post stamped "Prim. Trav. Sta. No. 8, 1916". Troad corner. Small brook. Rehoboth Church, about 1.75 miles west and 0.7 mile south of along second-class road running west and joining Kilmarnock and Lancaster road, on north edge of road, house stands about	37 37 37 37 37 37 37 37 37 37 37 37 37 3	53 53 52 50 49 48 48 48 47 47 46 46 45 45	00. 3 00. 9 56. 4 48. 4 06. 5 55. 9 55. 3 12. 4 36. 5 30. 2 23. 6	76 76 76 76 76 76 76 76 76 76 76 76 76 7	18 20 20 20 20 21 22 23 23 23 22 22 22 21 22 22 22	34. 10 39. 5 05. 9 18. 9 48. 2 51. 7 05. 0 00. 0 11. 7 48. 2 28. 4 15. 9 07. 8 57. 9 07. 3 05. 6	Feet. 4, 138 7, 208 3, 779 4, 605 3, 469 6, 105 7, 872 8, 968 5, 148 1, 916 1, 005 6, 978 3, 711 1, 005 6, 978 3, 740 2, 269 3, 446 2, 800 5, 153
200 feet northeast, in root of small gum tree; copper nail, painted "U. S. B. M. 10"	3 7	45	50. 3	76	23	50. 5	610

HEATHSVILLE QUADRANGLE—Continued. Along highways near south border of quadrangle.

Troad north	Station.	I	atit	ude.	L	ongi	tude.	Distance between stations.
Second-class road east.	T road north. Dim road north. Road forks. T road corpers about 200 feet north of White Marsh Church	37 37	46	03. 3 03. 6	76 76	24	16.6 31.8	Feet. 2,472 1,222 1,270
Center of small bridge over creek. 37 46 25.5 76 28 15.6 2, T road west, corner at. T road west, corner at. Lancaster, 2.5 miles west of, on Lancaster-Lively road, at forks of road leading to Lebanon church and Alfonso post office, 15 feet west of Lancaster-Lively road, 15 feet south of large oak tree in line with road running northwesterly; Iron post stamped rinn. Trav. Sta. No. 6, 1916'. 37 47 20.9 76 29 03.6 2. 38 47 20.9 76 29 03.6 2. 39 14 7 50.3 76 20 59.7 3. 20 15 17 road at old store building. 37 47 50.3 76 20 59.7 3. 21 15 17 road at old store building. 37 47 50.3 76 20 59.7 3. 22 15 17 road cast to camp grounds. 37 55 03.1 76 29 56.8 53. 23 24 18 7 50.3 7 56 29 56.8 53. 24 18 7 road cast to camp grounds. 37 55 03.1 76 29 23.4 4. 25 26 18 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	second-class road east. T road northeast. T road fork. T road south	37 37	45 46	49.7 -04.9	76 76	26	30. 1 48. 0	3,414 1,964 6,441 2,780
Road east to camp grounds.	Center of small bridge over creek. T road west, corner at Lancaster, 2.5 miles west of, on Lancaster-Lively road, at forks	37 37	46	25. 5	76	28	15, 6	2, 650 2, 258 6, 585
Road east to camp grounds	tree in line with road running northwesterly; iron post stamped "Prim. Trav. Sta. No. 6, 1916". Small bridge over creek. Dim T road at old store building. Center of small wooden bridge over creek. T road east.	37 37 37 37 37 37	47 47 52	34. 4 50. 3 36. 9	76 76 76	29 29	27. 3 59. 7 41. 8	2,760 2,340 3,063 (5,004) 3,715
Heathsville, on public square, 200 feet north of courthouse, 25 feet west of sidewalk; stone post with tablet in top marked "U.S. Coast and Geodetic Survey magnetic station". 37 55 03.1 76 28 21.4 3.	Along highways diagonally through center of quadran	gle f	ron	ı north	wes	t to	south	east.
Troad south	T road corners near Heathsville new high school	37 37		03. 7 20. 1			23. 4 04. 7	4, 906 7, 874
Road Southwest	T road south	37	54 55	56. 4 02. 3	76 76	26	25. 3 43. 9	3,870 4,552 3,366 1,838
Lilian post office, T road corners at, road south to Fairport	Road southwest	37	53 53 53 53	32. 6 22. 2 27. 9 21. 6	76 76 76 76	24 22 22	08. 1 18. 4 52. 8 29. 7	5, 443 5, 479 4, 120 6, 886 1, 954 3, 593
Magnetic declination for center of quadrangle, north and south, 5° 43′ W.; for south border of quadrangle 5° 46′ W.; for west border of quadrangle, 5° 38′ W.; throut quadrangle, northwest to southeast, 5° 51′ W. Along highways in the southwest corner of quadrangle. (Checked spur line.) Prim. Trav. Sta. No. 6, 1916. 37 47 20.9 76 29 03.62 76 29 15.0 3, Center of small bridge over creek. 37 46 50.7 76 29 15.0 3, 74 48.6 76 29 48.0 2, 24.0 2, 25.0 3	(Destroyed) T road north T road south T road south Lilian post office, T road corners at, road south to Fairport Beverlyville post office, T road corners, in front of store	37 37 37 37 37 37 37 37	52 52 52 52 51	52. 2 51. 1 06. 9 01. 8 41. 4	76 76 76 76 76	20 20 18 18 18	08. 1 01. 5 38. 0 17. 3 03. 1	5, 591 3, 600 535 8, 060 1, 740 2, 356 5, 528
border of quadrangle 5° 46′ W.; for west border of quadrangle, 5° 38′ W.; throu quadrangle, northwest to southeast, 5° 51′ W. Along highways in the southwest corner of quadrangle. (Checked spur line.) Prim. Trav. Sta. No. 6, 1916	Road forks, south road to Reedville, southeasterly road to Fleeton Road forks. Road west. Great Wicomico Lighthouse (U. S. Coast & Geodetic Survey)	37 37 37 37	50 49	17. 5 49. 5	76 76	15 16	46. 4 03. 5	6, 026 5, 249 3, 146 9, 525
Along highways in the southwest corner of quadrangle. (Checked spur line.) Prim. Trav. Sta. No. 6, 1916	border of quadrangle 5° 46′ W.; for west border of							
Prim. Trav. Sta. No. 6, 1916. 37 47 20.9 76 29 03.62 76 29 03.62	1 3 ,	rang	ile.	(Chec	ked	spu	r line.))
	<u> </u>		47 46	20. 9 50. 7	76 76	29 29	03. 62 15. 0	3, 193 2, 654
wround write and a work along horders on demonstrate.		'	adr	angle.				·
Station 791, Heathsville high school, T road corners near 37 55 20.09 76 29 04.69 Center of bridge over creek 37 55 53.9 76 29 47.8 4,	Station 791, Heathsville high school, T road corners near	37 37	55 55	20. 09 53. 9				4,863

Magnetic declination near west border of quadrangle, 5° 57′ W.; in southwest corner of quadrangle, 5° 40′ W.

HOMEVILLE QUADRANGLE.

West along Norfolk & Western Ry. and highways near north border of quadrangle. (By J. H. Wilson in 1916-17.)

Station.	Station. Latitude.		ıde.	Lo	ngit	Distance between stations.	
Milepost 55, westbound track.	°	, 59	" 56.0	°	, ,	" 13.6	Feet.
Herms, road crossing, 3,370 feet southeast of milepost 55, west- bound track.	36	59 59	35.0	77	02	41.4	3,370
west of milepost 30. Waverly, 4 miles southwest of, 6 feet east of signboard, at south-	36	59	45.9	77		11.8	1
east corner of Marables crossroads; iron post stamped "Prim. Trav. Sta. No. 59, 1917" S. J. Parker's mail box, at road south	36 36	59 59	56.5 53.1	77 77	08 14	31.7 10.9	1,941

Magnetic declination near north border of quadrangle, 4° 40' W.

From Marlboro crossroads southwest along highway and Southern Ry. (narrow gage) to Lumberton. (By A. C. Schilling in 1918.)

T road west.	36	59	42.9	77	08	40.7	
Gray's lumber railroad, a narrow gage spur of Southern Ry.,							l
crossing on	36	59	12.3	77	08		3,118
County-road crossing.	36	58	24.8	77	09		5,051
Railroad switch east. Road crossing, 110 feet south of point of switch.	36	58	17.5	77	09		747
Road crossing, 110 feet south of point of switch	36	57	52.6		09	25.5	2,949
North end of trestle east rail	36	57	23.9	77	09	30.2	2,928
Homeville, 20 feet east of track, about 10 feet north of road, 4 feet							·
west of crossing sign; iron post stamped "Prim. Trav. Sta.							l
No. 1"	36	56	55.3	77	10	19.04	4,905
Center of wooden culvert under railroad, west rail	36	56	37.7	77	10	32.5	2,089
County-road crossing on railroad, east rail	36	56	10.4	77	10	40.7	2,841
North end of twin 24-inch vitrified pipe culvert	36	55	56.2		10	51.4	1,676
Road crossing	36	55				02.9	3,464
Burt's switch, 714 feet northeast of, at north end of wooden							•,
trestle under railroad	36	54	45.1	77	11	08.95	3,888
County-road crossing.		54			īī		2,794
North end of trestle under railroad	36	53	53.3	77	11		3,032
Nottoway River, north end of large wooden trestle over; west	•	•••		١		20.0	0,002
rail	36	53	42.4	77	11	44.6	1,153
Nottoway River, south end of large bridge over, west rail, 270	•	-		١		11.0	
feet northeast of county-road crossing leading to sawmill	36	53	31.8	77	11	51.4	1,209
North end of trestle over small creek.	36	53	00.9			15.8	3,695
Lumberton, 20 feet west of track, about 10 feet north of road;	00	00	00.0	'''	14	10.0	.0,000
iron post stamped "Prim. Trav. Sta. No. 2"	36	50	53.7	77	19	39.1	2,028
non post stamped "Film, 11av, 5ta, No. 2	30	34	00.7	"	14	39.1	2,020

East along highways through center of quadrangle.

North end of bridge over creek	36 36	52 51	04.1 26.6	77 77	12 12		5,081 3,793 4,674
T road to Littleton	36	50	45.6		12	01.8	4 674
Troad west		51	08.9	77	îĩ		2,603
Railroad crossing on county road	36	51		77	îî	26.6	2,880
West and of iron bridge	36	51		77	îî		260
Troad south, farm road, 730 feet southwest of another farm road	36	51		77	11		2,915
Troad south, farm road.	36	52	09.7	77	10	40.5	2,364
Troad north.	36	52		77	1ŏ	24.8	1,731
Littleton, 80 feet north of northwest corner of post office and general store, 119 feet south of road forks, 16 feet east of center of road to Yale, 37 feet west of center of road to Sebrell; iron		-		'']
post stamped "Prim. Trav. Sta. No. 3"	36	53	07.9	77	09	18.0	7,182
Troad east	36	52		77	08		7,124
Surry Lumber Co.'s railroad right of way, 21 feet north of, 18 feet east of center of county road; iron post stamped "Prim.	00	02	00.0	''	00	01.0	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Tray Sta No 4"	36	51	51.7	77	08	23.1	1,795
Sussex-Southampton county line, gate across road, 4 feet west				1			
of west edge of bridge across road	36	51	49.6	77	07	44.2	3,169
West end of bridge over swamp	36		46.5		07		1,789
Center of gate across road	36		35.1		06		4,374
West edge of small cattle-guard pit, center of road	36	51	27.7	77	06	09.5	1,875
Dory, 2.5 miles west of, 35 feet west of center of county road between Waverly and Sebrell, 12 feet south of Surry Lumber Co's, right of way, in forks; iron post stamped "Prim. Trav.				ļ ·			
Sta. No. 5, 1918 S"	36	51	24.7	77	05	52.0	1,448
Road crossing on Surry Lumber Co.'s right of way		51		77			5,376
Log road crossing road	36	51	22. 2	77	03		
Dory, beginning of spur track east to	36	51	33.0	77	03	13.0	3,866
J , G				1			1

HOMEVILLE QUADRANGLE—Continued.

From Dory northeast along Surry, Sussex & Southampton Ry. (narrow gage) to east border of quadrangle.

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Station.	Latitude.	Longitude.	Distance between stations.
Dory, 81 feet east of Surry Lumber Co.'s pumping station, 162 feet northeast of northeast corner of freight station, 12 feet south of one pine tree and 9 feet north of another pine tree; iron post stamped "Prim. Trav. Sta. No. 6"	36 51 38.4 36 51 56.95	77 02 52.9 77 02 45.85	Feet. 1,719 1,961
County-road crossing. Road crossing on railroad. Manry, north end of spur from main line. Manry, point of switch at. Road crossing on railroad. Surry-Southampton county line, on or near, south end of large wooden treetle over railroad.	36 52 17.4 36 52 42.8 36 53 22.5 36 53 26.9 36 53 58.8	77 02 36.2 77 02 24.1 77 02 05.4 77 02 03.25 77 01 48.2	2, 209 2, 756 4, 287 486 3, 443
Small road crossing railroad, east rail. County road crossing railroad, west rail. Dory, 5 miles northeast of, at junction of Surry Lumber Co.'s railroad, with county road 11 feet northwest of northwest	36 54 45.3 36 55 32.1	77 01 33.8 77 01 23.2 77 00 44.0	3, 269 1, 859 5, 713
rail, 21 feet southeast of center of county road, 47 feet southwest of signpost reading "Railroad crossing"; iron post stamped "Prim. Trav. Sta. No. 7, 1918 S". Farm-road crossing, northwest of northwest rail.	36 55 41.7 36 56 02.7	77 00 34.5 77 00 13.3	1,241 2,730
Along Norfolk & Western Ry, in northeas	t part of quad	rangle.	
Road crossing, east rail. Wakefield, 1.5 miles northwest of, southwest side of track, in	36 58 38.2	77 00 14.4	
north face of concrete foundation to semaphore; bronze tablet set vertically, stamped "111 1917". Small concrete culvert, center of. Herma, road crossing, 3,370 feet southeast of milepost 55, north-	36 58 53.3 36 59 08.1	77 00 37.5 77 01 00.0	2, 421 2, 359
Herma, road crossing, 3,370 feet southeast of milepost 55, north- west-bound track.	36 59 35.0	77 01 41.4	4, 321
Southeast along Surry, Sussex & Southampton Ry. (narr	ow gage). (B	y A. C. Schillin	in 1918.)
Dory, Prim. Trav. Sta. No. 6 (previously described). Center line of county road and west rail. Dory, 1.5 miles south of, northeast corner of intersection of Surry, Sussex & Southampton Ry, and road to Sebrell, 6 feet east of east rail, 22 feet south of intersection of county road and east still 27 feet coutheast of signment iron part storaged "Pering".	36 51 38.4 36 51 12.7	77 02 52.9 77 03 06.7	2,832
rail, 27 feet southeast of signpost; iron post stamped "Prim. Trav. Sta. No. 9" Center of large wooden culvert. Center line of county road between Courtland and Ivor	36 51 04.7 36 50 14.1 36 50 00.0	77 03 07.6 77 02 24.7 77 02 12.6	813 6,193 1,738
Center line of iron culvert, 1,050 feet northwest of center of wooden culvert. Vicksville, north side of county road between Courtland and Ivor, 95 feet west of west rail of Surry, Sussex & Scuthampton	36 49 07.4	77 01 27.5	6, 454
Ry., 9 feet north of mail box; iron post stamped "Prim. Trav. Sta. No. 10" Point of switch east to lumber camp, 578 feet northwest of center	36 48 50.6	77 01 14.5	2,004
line of county road. Center line of county road, on west rail. Sedley, southwest corner of railroad junction, 30 feet south of south rail of Virginian Ry. 8 feet west of west rail of Surry, Sussex & Southampton Ry.; iron post stamped "Prim. Trav.	36 48 39.6 36 47 29.4	77 01 03.6 77 00 03.2	1,428 8,629
Sussex & Southampton Ry.; iron post stamped "Prim. Trav. Sta. No. 11" (in Ivor quadrangle)	36 46 29.0	76 59 17.3	7, 165
West along Virginian R	y.	·	
Road crossing, 619 feet west of east end of trestle 96 feet long Farm-road crossing. Courtland-Ivor road, west side of, 25 feet south of south rail of	36 46 28.3 36 46 27.0	77 00 23.7 77 01 50.9	5,402 7,092
Virginian Ry., 9 feet southwest of railroad signpost; iron post stamped "Prim. Trav. Sta. No. 12, 1918" Center line of concrete-arch culvert Wilcox siding, south rail at point of switch East end of trestle 148 feet long, south rail East end of trestle, 402 feet long.	36 46 25.9 36 46 26.3 36 46 38.6 36 46 49.2 36 46 54.3	77 02 47.1 77 03 22.9 77 04 00.8 77 04 58.3 77 05 42.0	4,574 2,911 3,296 4,799 3,586

HOMEVILLE QUADRANGLE—Continued. West along Virginian Ry.—Continued.

Station.	נ	Lati	tude.	L	ongi	itude.	Distance between stations.
Sebrell, in corner of engine house, north side of track, bench mark tablet. Sebrell, on bank, 28 feet south of south rail of Virginian Ry., 30 feet east of center line of county road, 10 feet southeast of	。 36	, 47	06.1	77	, 07	21.8	Feet. 8, 203
railroad signpost, 9 feet northwest of telephone pole; iron post stamped "Prim. Trav. Sta. No. 13". East end of trestle 70 feet long. Nottoway River, east end of trest le 854 feet long over	36	47 47 47	07. 2 15. 0 21. 4	77 77 77	07 08 09	34. 3 37. 7 32. 4	1, 016 5, 215 4, 493
Virginian Ry., 44 feet north of north rail of, center line of farm road; iron post stamped "Prim. Trav. Sta. No. 14". Farm-road crossing, 1,632 feet east of milepost 58. Road crossing, south rail. Road crossing, south rail	36 36 36 36	47	29. 0 30. 2 21. 0 00. 4	77 77 77 77	11 13	34. 8 48. 4 00. 9 17. 8	5, 136 7, 784 5, 905 6, 595
South along county ros	ıd.			<u>' </u>			<u> </u>
Upson, Prim. Trav. Sta. No. 4 (previously described)	36	51	51.6	77	08	23.1	
ampton counties, center line of road. Intersection of county road and Upson-Sebrell road. Center line of T road west and county road North end of wooden bridge 7 feet long. T road, junction of Upson and Petersburg county road with	36 36 36 36	51 50 49 48	02. 7 22. 7 07. 0 03. 2	77 77 77 77	08 07 07 07	02. 5 49. 0 31. 8 43. 8	5, 229 4, 193 7, 780 6, 531
county road to Sebrell. Sebrell, Prim. Trav. Sta. No. 13 (described above)	36 36	47 47	28. 4 07. 2	77 77	08 07	01.3 34.3	3,794 3,073
Along Southern Ry, south o	of L	umb	erton.				
Farm-road crossing County-road crossing County-road crossing Trestic 415 feet long, south end of Lumberton, 2.7 feet north of post on north side of Southern Ry.	36 36 36	52 52 52 52 52	07. 5 21. 6 29. 0 36. 7	77 77 77 77	14 14 13 13		2,701 2,521 1,899
track marked "Railroad crossing," 13 feet east of road to Sussex; iron post stamped "Prim. Trav. Sta. No. 2, 1918" Farm-road forks to left. Junction with county road between Lumberton and Sussex Farm-road forks to left. Crossroads.	36 36 36 36	52 53 53 53 54	46.4	77 77 77 77 77		39. 1 50. 7 00. 1 46. 2 36. 5	3,480 2,443 2,787 3,762 5,182
Magnetic declination for south part of quadrangle	, 4.5	2° V	W.	<u> </u>			
Southwest along highways in southwest corner of quadr	rang	gle.	(By J.	J.]	Phel	an in 1	917.)
Sedley, 1 mile west of, 150 feet south of Virginian Ry., road crossing. Troad, center of both roads, 20 feet southwest of signboard reading "Vicksville-Prettow-Sedley road".	36	46 46	26.0	77 77	00	04.8	1,540 1,290
Center of small bridge. Center of small bridge at road fork. Center of small bridge about 200 feet downstream from grist mill. T road north at Miss Ella Joiner's mail box. Center of small culvert in swamp.	36 36 36	45	13. 7 19. 0 15. 9 15. 7 08. 6	77 77 77 77 77	00 01	20. 0 12. 4 16. 1 02. 4 12. 8	1,290 5,566 439 3,766 1,107

Magnetic declination along southwest edge of quadrangle, 4.2° W.

IVOR QUADRANGLE.

North along Surry, Sussex & Southampton Ry. and highways near west border of quadrangle. (By A. C. Schilling in 1918.)

(Dy A. O. Stimming in 1916.)							
Station.	ı	Lati	tude.	L	ongi	itude.	Distance between stations.
Center line of 2 by 6 foot wooden culvert under railroad	36 36	57 57	13. 1 33. 6	6 76 76	59 59	36. 8 35. 9	Feet. 2,073
Wakefield and Smithfield road Wakefield, 76 feet from southeast corner of Bank of Sussex and Surry, 18 feet southwest of southwest rail of southeast-bound track of Norfolk & Western Ry., 11 feet southeast of center of road; iron post stamped "Prim. Trav. Sta. No. 8, 1918"	36	58	01.0	76	59	33.1	2,785
road; iron post stamped "Prim. Trav. Sta. No. 8, 1918" Surry, Sussex & Southampton Ry., center of concrete-arch bridge over	36 36	58 58	04. 5 11. 8	76 76	59 59	23. 4 33. 7	862 1,111
	<u> </u>			'			
West along Virginian Ry. (By J. J. Char	ters	: 1n	1918.)	,			,
East end of wooden bridge over creek. Collosse, northeast corner of Mr. Johnson's store porch, permanent bench mark marked "U. S. G. S.". North rail, at edge of road crossing Walters station, opposite center of, south rail.	36 36	45 45	24. 4 40. 0	76 76	48 49	41.3 19.0	2 450
North rail, at edge of road crossing	36	46	12.4	76	50	31.7	3,458 6,767 2,669
MHEDUSE 40. ODDUSIEC. HOLEM LAH	36 36	46 46	18.3 11.5	76 76	51 52	03.6 11.1	2,669 5,533
Blackwater River, east end of wooden bridge over Burdette station, north rail opposite southeast corner of railroad	36	46	05. 2	76	53	08. 4	4,707
station North rail opposite milepost 42. North rail opposite milepost 43. North rail opposite milepost 44. Road crossing North rail opposite switch block	36 36	46 46	$04.6 \\ 09.1$	76 76	53 54	38. 2 19. 8	2,428
North rail opposite milepost 43	36	46	16.0	76	55	24.1	3,414 5,280
North rail opposite milepost 44	36 36	46 46	22.9 27.3	76 76	56 57	28. 4 09. 6	5, 280 3, 390
North rail opposite switch block. Sedley, southwest corner of railroad junction, 30 feet south of south rail of Virginian Ry., 8 feet west of west rail of Surry, Sussex & Southampton Ry.; iron post stamped "Prim. Trav. Sta. No. 11"	36	46	30, 3	76	58	15. 1	5,340
Sta. No. 11"	36	4 6	29.0	76	59	17.3	5,062
Northwest along Norfolk & Western Ry. (B	уJ.	J. (Charte	rs in	191	8.)	
Milenest B 373 N 35 porth rail exposite	36	48	57. 4	76	45	26. 2	1
Milepost B 373, N 35, north rail opposite	36	49	30.3	76	46	16.2	5,258 3,521
Road crossing. Dwight, 1.7 miles southeast of, on west side of semaphore 377, in top of foundation of iron ladder; bronze tablet stamped "71	36	49	52.3	76		49.7	
101077	36 36	50 50	23. 0 36. 6	76 76	47 47	36. 5 57. 2	4,915 2,181 5,119
Milepost B 369, N. 39, north rail opposite	36	51	08.6	76	48	46.0	5,119
Milepost B 370, N. 38, north rail opposite. Milepost B 369, N. 39, north rail opposite. Milepost B 368, N. 40, north rail opposite. Zuni railroad station, 450 (?) feet east of, in west end of concrete wall of bridge over highway, north side of track; bronze tablet stamped "39 1918".	36	51	42.8	76	49	38. 0	5,464
wan of oringeover inginary, northsheet track, oronzentees stamped "39 1918". Blackwater River bridge. Milepost N 42, north rail opposite. Road crossing. Milepost N 44, north rail of middle track opposite.	36 36	51 52	59.1 . 04.9	76 76	50 50	$02.7 \\ 12.2$	2,604 980
Milepost N 42, north rail opposite.	36	52	52.3	76	51	24.6	7,588
Road crossing	36 36	53 53	39.7 54.5	76 76	52 52	36.9 59.8	7,585 2,395
Total State of the state of the	36	54	24.0	76	53	45.0	4,730
Milepost B 302, N 40, north rail opposite. Ivor, 2.56 miles northwest of, on west side of semaphore 475, in concrete foundation of iron ladder; bronze tablet stamped "Elev. 79, 1918". Milapost N 48, B 360	36 36	55 55	00. 1 21. 5	76 76	54 55	40. 2 13. 0	5,785 3,435
concrete foundation of iron ladder; bronze tablet stamped	36	55	47.4	. 76	55	52.5	4, 141
Milepost N 48, B 360. Post marking line between Southampton and Sussex counties, 300 feet northwest of milepost N 49, B 359; north rail of north	36	56	05.8	76	56	20.8	2,963
track annosite	36	56	40.2	76	57	13.5	5,513 3,053
Signblock 497. Milepost N 50, B 358, north rail opposite. Wakefield, 1.07 miles southeast of, on west side of semaphore 505, in concrete foundation of iron ladder; bronze tablet stamped (11018, 962)	36 36	56 57	59. 2 11. 4	76 76	57 58	42.7 01.4	1,958
	36	57	33.0	76	58	34.4	3,452
Wakefield, Prim. Trav. Sta. No. 8, 1918, Schilling (previously described)	36	58	04.5	76	59	23.4	5, 100
				<u> </u>			<u> </u>

VIRGINIA.

IVOR QUADRANGLE—Continued. South along highways near center of quadrangle.

Station.	1	Latit	tude.	L	ongi	itude.	Distance between stations.
			,,			"	<u> </u>
Ivor station, opposite, center of track Ivor, 1,600 feet southwest of station, 50 feet east of center of Ivor-Burdette road, 91.1 feet from east corner of brick foundation of residence, 100.8 feet from northeast corner of church founda-	36	54	24.0	76	53	45.0	Fcet.
tion; in northeast corner of church lot; iron post stamped (?) Junction of Courtland road Center line of road opposite milepost 2	36 36 36	54 53 53	13.9 55.5 05.5	76 76 76	54 54 54	45.7	1,607 4,134 5,097
Edge of drive southwest through woods. Center line of road opposite milepost 3. Ivor, 3.6 miles south of, at crossroads, north side of Zuni-Wake-	36 36	52 52	39.0 14.1	76 76	54 54	35. 4 28. 4	5,097 2,693 2,578
field road and 40 feet east of Ivor-Burdette road, 49 feet north- east of intersection; iron post stamped "85 1918" Third class T road bearing north T road northeast. Creek crossing, center line of road, creek 5 feet wide.	36 36 36	51 50 50	36.6 58.4 32.0	76 76 76	54 53 53	16.7 52.5 14.9	3,900 4,343 4,057
Junction of road from Zuni to Unity. Small wooden bridge, at east end of, center line of road Unity, in west face of northwest brick pier of foundation of Mr.	36 36 36	50 49 49	05. 0 43. 8 18. 8	76 76 76	52 52 52	44.8 28.1 55.0	3,655 2,536 3,342
Stevenson's store, 60 feet east of T road; iron post stamped "49 1918". T road bearing south. T road bearing south. Center line of road opposite mail box 46 (Wilson).	36 36 36	48 48 48	45.8 22.5 14.3	76 76 76	53 53 52	28.6	4,006 2,792 2,980 2,314
Center line of road opposite mail box 46 (Wilson). Center line of road opposite mail box 56 N. T lane to farm house. Burdette station, north rail of track opposite	- au	47 47 46 46	56. 1 52. 6 53. 0 04. 6	76 76 76 76	52 53 53 53	45.8 10.5 27.4 38.2	2,314 2,044 6,187 4,968
North along Sussex Lumber Co.	s ra	ilro	ad.	1			
Ivor station, opposite, center of track. Crossing of road through woods. Second-class road crossing. Crossing of Ivor and Smithfield road.	36 36		24.0 00.5	76 76	53 53	45.0 41.8	3,700
Ivor. 3.1 miles northeast of at road crossing, 10 feet south of road,	36 36 36	55 56 56	30.5 13.9 37.4	76 76 76	53 53 52	26. 1 03. 4 51. 2	3,291 4,762 2,584
10 feet east of east rail, in top of small concrete culvert; bronze tablet stamped "76 1918". Switch block, switch bearing northeast. Second-class road bearing west, crossing of.	36 36 36 36	56 57 57 58	53.3 46.4 59.8 17.7	76 76 76 76	52 52 52 51	42.9 27.4 25.6 56.7	1,742 5,523 1,363 2,967
Wooden trestle, south end of Johnson Corners, 116 feet southeast of road crossing, in top of concrete culvert; bronze tablet stamped "40 1918" Side track bearing northeast Old millstone, on curve of old right of way bearing west	36 36 36	58 59 59	32.0 09.3 50.3		51 51	36.4 15.8 14.0	2,197 4,124 4,155
Northeast along highway from Iv				"			1,100
Ivor station, opposite, center of track	36	54	24.0	76	53	45.0	
opposite	36 36	54 54	28.0 25.0	76 76	52 51	41.7 45.4 00.8	5,152 4,587
Lane bearing north T road north Center line of road opposite milepost 4 Broadwater Bridge over Blackwater River, west end of	36	54 54 54 54	31.0 37.8 27.7 19.7	76 76 76 76	51 50 49 48	00.8 01.4 37.2 59.2	3,670 4,874 2,221 3,188
T road southeast	36 36 36	54 54 55	41.0 54.3 05.3	76 76 76	48 48 48	34.7 20.8 05.0	2,940 1,753 1,703
Milepost 6, center line of road opposite T road west on Raynor branch road from Smithfield road. Sussex Lumber Co.'s property, center line of road, opposite gate, 60 feet west of house	36 36	55 56	33. 1 24. 8	76 76		42. 2 10. 8	3,372 5,813
Raynor, 100 feet northeast of T road at, in southwest corner of white church property, 12 feet southwest of southwest corner of church, 75 feet northeast of northeast corner of frame house; iron post stamped "Frim. Trav. Sta. No. 12, 1918 C"	36	56	53. 4	76	46	59. 2	3,070
T road east to Smithfield. Bridge over creek, center line of road at south end of T road west to Bobs	36 36 36	57 57 58	11. 5 38. 9 15. 9	76 76 76	46 46 45	20. 0 04. 2 38. 3	3,604 3,054 4,297
Drive to farm house. Wooden bridge over creek, south end of T road east T road south	36 36 36	58 59 59 59	41. 4 06. 1 16. 9 57. 1	76 76 76 76	45 45 45 45	39. 2 46. 0 56. 9 49. 6	2,578 2,561 1,409 4,103
T road south	36	59	57.1	76	45	49.6	4,103

IVOR QUADRANGLE—Continued.

Along highways near southeast corner of quadrangle.

		4					
Station.	Station. Latitude. Longi						Distance between stations.
Crossroads, road east to Suffolk.	36 36	46 45	06. 5 45. 1	76 76	45 45	02. 7 10. 7	Feet. 2,258
Magnetic declination for center of quadrangle, 4.5 rangle, 5.5° W. Along highways in northeast part of		-		$rth\epsilon$	ast	part	of quad-
Road crossing on narrow-gage railroad	36	-	18.6	76		54.3	ļ
Bobs roads. T road through woods, at first decided bend in road from Stotts, 15 feet west of center of lane, at point on line of a long straight section of road northwest. Raynor, iron post (previously described).		56	34. 8 05. 7 53. 4		46	14. 0 11. 5 58. 2	2, 291 3, 133 6, 138
Northwest along highways near east bor	der	of c	quadra	ngle			
T road southwest. T road north.			48. 2 15. 1	76 76		10.3 13.3	2,735
Northeast along highways near center of quadrang	;le.	(B)	y J. J.]	Phel	an i	n 1918.))
West side of road, 14 feet from T road to sawmill, 8 feet from mail box. T road, 9 feet from corner fence post. Baffle, center of road crossing Virginian Ry., north rail Baffle, opposite milepost 43, north rail	36 36 36 36	45 46 46 46		76 76 76 76	55	52. 3 30. 9 30. 3 24. 1	4, 561 1, 352 511

Magnetic declination near south border of quadrangle, 4.2° W.

JARRATT QUADRANGLE.

In northeast corner of quadrangle. (By J. H. Wilson in 1916-17.)

Station.	Latitude.	Distance between stations.	
Belcher post office (abandoned), Jerusalem plank road at, at road northeast, 720 feet southeast of road southwest, at which road forks there is an old store building, at center of triangle; iron post stamped "Prim. Trav. Sta. No. 60, 1917".	° ' '' 36 59 24.6	° , ,, 77 15 16.7	Feet.
South along highways near east border of quadrang	le. (By J. C.	Fales in 1917–1	8.)
Belcher post office (abandoned), 720 feet southeast of old store building; iron post stamped "Prim. Trav. Sta. No. 60, 1917". Steel bridge across Nottoway River, southeast corner of. Wooden gate at entrance to unpainted two-story house, no fence. Troad to unpainted two-story house. Road, opposite corner of woven-wire fence, on west side Road, opposite woven-wiregate to unpainted house, 300 feet west. Troad west. Sussex, 50 feet south of W. R. Brown's store, on 2-foot bank, at east edge of road; iron post stamped "Prim. Trav. Sta. No. 1, 1918".	36 58 36.5 36 58 10.2 36 57 33.3 36 56 43.3	77 15 16.7 77 16 10.0 77 16 13.6 77 16 07.7 77 16 27.0 77 16 22.2 77 16 43.0 77 16 46.4	6,510 2,681 3,760 5,295 4,369 3,934

JARRATT QUADRANGLE—Continued. West along highways through north half of quadrangle.

Station.]	Latit	ude.	L	ongi	tude.	Distance between stations.
Blue schoolhouse 200 feet south of road, road opposite. Road, opposite woven-wire wagon gate to large white house 300	36	, 54	,, 48. 9	77	, 16	55. 5	Feet. 841
feet south T road to shanty, 200 feet north of. T road past whitewashed dwelling 500 feet north. Road, opposite sign "5 miles to W. T. Freeman Co." Pipe culvert with concrete ends Road, opposite sign "4 miles to W. T. Freeman Co." Road fork northwest through woods. Crossroads, Waverly-Stony Creek and Petersburg-Emporia	36 36	55 55 55 55 55 55 55	02. 0 15. 9 18. 3 24. 1 21. 3 16. 9 29. 8	77 77 77 77 77 77 77	17 18 19 20 20 21 21	24, 6 35, 9 03, 5 04, 4 49, 3 07, 6 40, 4	2,709 5,956 2,256 4,979 3,656 1,549 2,963
roads. Road, opposite sign "2 miles to W. T. Freeman Co.". T road, 950 feet west of, 120-foot steel bridge Road, opposite sign "1 mile to W. T. Freeman Co.". Stony Creek, 210 feet east of Atlantic Coast Line R. R. crossing.	36 36 36 36	55 55 56 56	41. 4 57. 8 01. 9 35. 5	77 77 77 77	22 23 23 23 23	24. 3 00. 3 23. 6 17. 8	3,755 3,364 1,935 3,429
110 feet east of front door of Prince's store, at south edge of road; iron post stamped "Prim. Trav. Sta. No. 8, 1918". Road, opposite sign "I mile to W. T. Freeman Co." T road to large, unpainted house, 800 feet north. 150-foot wooden bridge, southwest corner of. Crossroad, 500 feet north of two-story white house. Road, opposite sign "4 miles to W. T. Freeman Co." T road past two barns 300 feet north. Road fork southwest, mail box in gore. Diston, 40 feet from front door of Samuel Winfield's store; iron	36 36 36 36 36 36	56 56 56 56 57 56 56 56	44.3 27.0 28.4 41.0 03.1 40.7 37.8 32.5	77 77 77 77 77 77 77 77	24 25 26 26 26 27 28 28	03.6 00.4 03.3 14.8 36.3 45.2 28.0 39.1	3,818 4,932 5,114 1,580 2,837 6,039 3,483 1,048
post stamped "Prim. Trav. Sta. No. 2, 1918"	<u> </u>	56	39. 1	77	29	53, 8	6,104
North along Atlantic Coast Line R. R. and highways	пеаг	we	st bore	ier c	or qu	lagrai	igie.
East rail of south-bound track, opposite semaphore 575. East rail of south-bound track, opposite milepost 57. East rail of south-bound track, opposite milepost 56. East rail of south-bound track, opposite point of switch, at south	36 36 36 36	46	09. 3 43. 7 32. 8 24. 1	77 77 77 77			4, 619 5, 285 5, 308
end of Jarratt yard. Jarratt, 1,800 feet south of depot, on west side of Atlantic Coast Line tracks; iron post stamped "Prim, Trav. Sta. No. 7, 1918".	36 36	48 48	11. 9 32. 3	77	28 28	11.0 09.1	4,850 2,067
Jarratt, road crossing just south of depot, on south-bound track, joint in west rail. Center of road at wooden-box culvert. Road forks, wood road north, in center and 6 feet from point of	36 36			77 77	28 28		1,678 6,560
gore. Bridge, 10 feet by 14 feet, no rails, center of. Steel bridge across river, at south end of, center line. T road east to negro shack, 200 feet. Wooden bridge with rails, 30 by 14 feet, at south end of, center line; white frame church 400 feet southeast.	36 36 36 36	50 50 51	51.0 32.1	77 77 77 77	28 29 29 29	55. 0 18. 4 36. 8 50. 9	1,229 4,072 2,789 4,311
Road fork to negro dwelling 400 feet west, opposite north point	36 36	52 52		77	29 29		3, 481 3, 787
of, side of road. Road, opposite and 200 feet west of dilapidated dwelling of Jemino Hill. Road crossing. Road crossing at angle of 75°.	36 36 36	53 53 54	24.7 51 0 33.8	77 77 77	29 29 29	36. 8 42. 3 36. 6	4,572 2,700 4,354
Road crossing at angle of 75°.	36		20. 5	77	29 ——	52.8	4, 896
East along Virginian Ry. from Jarratt to Gray.	(B)	7 A.	C. Sch	illin	g in	1918.)	
Jarratt, Prim. Trav. Sta. No. 7 (Fales)			32. 3			09. 1	
south and west rails. Road crossing. Road crossing. Milepost 71. Farm-road crossing. Brown's station, road crossing near. Farm-road crossing. Farm-road crossing. Gray, 20 feet east of county road and 27 feet south of south rail of main track; iron post stamped "Prim. Trav. Sta. No. 16,	36 36 36 36 36 36 36	48 48	36. 9 30. 9	77 77 77 77 77 77 77	27 26 25 24 23 22 22	58. 4 28. 1 32. 0 05. 3 12. 6 54. 6 46. 4 00. 0	2,580 2,492 4,608 7,116 4,328 1,483 5,695 3,917
of main track; iron post stamped "Prim. Trav. Sta. No. 16, 1918".	3 6	47	47.3	77	20	39.0	6,845

JARRATT QUADRANGLE—Continued. Northeast from Gray along Southern Ry.

Station.	Latitude.	Longitude.	Distance between stations.
Road crossing Farm-road crossing. Trestle 65 feet long, south end of. Hilda, 45 feet east of east rail and 64 feet south of southeast corner of depot; iron post stamped "Prim. Trav. Sta. No. 17, 1918". Trestle 90 feet laye south end of.	% ' '' 36 48 01.1 36 48 30.8 36 48 43.1	° ' '' 77 20 28.8 77 20 14.4 77 20 04.4	Feet. 1,619 3,223 1,487
of depot; iron post stamped "Prim. Trav. Sta. No. 17, 1918". Trestle, 92 feet long, south end of Farm-road crossing Farm-road crossing Farm-road crossing Farm-road crossing Yale, 19 feet northwest of northwest rail of Southern Ry., 18	36 49 12.7 36 49 43.6 36 49 55.1 36 50 03.6 36 50 31.4	77 19 45.9 77 19 17.5 77 18 47.4 77 18 25.0 77 17 48.0	3,352 3,886 2,707 2,013 4,116
feet northeast of county road, 42 feet southeast of south corner of Potridge store; iron post stamped Prim. Trav. Sta. No. 18. Trestle 30 feet long, south end of. Farm-road crossing. Secondary-road crossing.	36 50 43.6 36 51 05.8 36 51 28.1 36 51 40.8	77 17 16.7 77 16 25.6 77 15 51.1 77 15 28.6	2, 831 4, 722 3, 598 2, 233
On highway from Sussex to Lu	mberton.		
Center line of small bridge (distance from Prim. Trav. Sta. No. 1 at Sussex).	36 54 29.2	77 15 15.2	7,787
South along Atlantic Coast Line R. R. from St	ony Creek to J	arratt.	
Stony Creek, about 3,400 feet south of depot; point of switch Milepost 45. Milepost 46. County-road crossing Road crossing Bridge over Nottoway River, north end of. Concrete-arch bridge, north end of. Forty-Nine Mile siding (Owen Store), 42.5 feet east of east rail of northbound track of Atlantic Coast Line R. R., 13 feet north	36 56 15.0 36 55 23.1 36 54 34.0 36 54 11.4 36 53 50.5 36 52 58.6 36 52 39.4	77 24 06.0 77 24 25.1 77 24 47.8 77 24 58.2 77 25 31.9 77 25 40.9	5, 477 5, 296 2, 429 2, 216 5, 636 2, 074
of center line of road from Jarratt to Dunning; iron post stamped "Prim Trav. Sta. No. 19, 1918". Old road crossing. Milepost 50. Farm-road crossing. Farm-road crossing. County-road crossing. Farm-road crossing. Farm-road crossing. Farm-road crossing. Jarratt, crossing of Atlantic Coast Line and Virginian railroads.	36 51 18.9 36 50 47.3 36 50 25.6 36 49 57.7 36 49 46.2	77 25 52.7 77 26 06.4 77 26 18.4 77 26 33.0 77 26 43.1 77 26 73.1 77 27 13.2 77 27 35.8 77 27 58.4	2,856 3,078 2,762 3,410 2,332 3,049 1,742 2,324 4,063
Southwest from Gray along So	ıthern Ry.	1	
Gray, Prim. Trav. Sta. No. 16. Road crossing. Trestle over pipe culvert, center of. Trestle A. J. 7.9, center of. Trestle A. J. 7.2, east end of. Road crossing Trestle, east end of.	36 47 47.3 36 47 23.5 36 47 06.4 36 46 28.9 36 46 08.2 36 45 34.6 36 45 13.5	77 20 39.0 77 21 19.9 77 21 44.6 77 22 10.5 77 22 44.9 77 23 05.2 77 23 40.0	4,105 2,656 4,336 3,491 3,777 3,544
Magnetic declination for west border of quadrang	le, 4° 20′ W.		
Along Virginian Ry. east of	Gray.		
Joyner, on bank 27 feet southeast of center line of county road, 41 feet south of south rail of south track of Virginian Ry., 7 feet east of telephone pole; iron post stamped "Prim. Trav. Sta. No. 15". Sussex and Southampton county-line fence. Farm-road crossing. Farm-road crossing. Gray, Prim. Trav. Sta. No. 16 (described elsewhere).	36 47 05.4 36 47 24.1 36 47 43.2	77 15 07.0 77 16 09.9 77 17 29.3 77 18 53.1 77 20 19.1 77 20 39.0	5, 112 6, 699 7, 069 7, 255 1, 674

JARRATT QUADRANGLE-Continued.

Along Virginian Ry. west of Jarratt. (By J. C. Fales in 1918.)

Station.	Latitude.			L	ongi	Distance between stations.	
Road crossing, just south of Jarratt depot (previously described)	36	49		° 77 77	28	02. 2 45. 4	Feet. 3,779
Northeast along highways near southeast corner of qua	drai	ngle	. (Ву	H. J	r. St	vitzer	ln 1918.)
Bridge 69 feet long, south end of. Culvert of galvanized iron pipe. Bridge 7 feet long, west end of. Junction of roads. Bridge 7 feet long, east end of. T road east, center of grass triangle at. Junction of roads, center of triangle at. Prim. Trav. Sta. No. 15, at Joyner (previously described).	36 36 36 36 36 36	45 46 46	01. 1 01. 9 06. 0 16. 9 00. 1 19. 9 39. 6 46. 3	77 77 77 77 77 77 77 77	18 16 15 16 15 16 15	50. 2 51. 9 02. 0	3, 321 5, 767 4, 864 4, 448 2, 023 2, 091 4, 867

Magnetic declination for southeast corner of quadrangle, 4° 30′ W.

Northwest along highways in northwest part of quadrangle. (By J. C. Fales in 1918.)

Crossroads (nosition praviously given)	36	57	03.1	77	26	36.3	
Crossroads (position previously given)	36	57	30. 8	1 77	26		3,359
T road west past whitewashed negro cabin 400 feet distant T road, 150 feet north of whitewashed negro cabin, mail box	36	57	41.7	77	27	08. 2	1,320
marked Nos. 44 and 47, at northeast corner	36	57	59.7	77	27	17.5	1,976
T road west at home of Lucius Flower	36	58	20.5	77	28	15.0	5,113
T road east, 700 feet to white farm house, negro house 100 feet south of corner	36	58	48. 2	77	28	36.8	3,310
Ornamentaliron gate in picket fence at entrance to gray house of James Pegram.	36	59	01.0	.77	29	23. 4	3,996
Flake, at crossroads near Tucker's store; iron post stamped "Prim. Trav. Sta. No. 3, 1918"	36	59	40. 5	77	29	06.6	4,221

Magnetic declination for northwest part of quadrangle, 4° 10' W.

KARA QUADRANGLE.

Along Seaboard Air Line Ry. near southeast corner of quadrangle. (By J. C. Fales in 1918.)

Station.	I	Latitude. Longitude					Distance between stations.
Milepost 72, east rail opposite Farm crossing, at entrance to white house 200 feet west of track. Skelton depot, west rail under south edge of first overhead crossing south of.	36 36 36	45 45 45	44. 5 26. 4 11. 8	78 78 78	00 02 02	47. 2 15. 9 56. 3	Feet. 7,448 3,600

KILMARNOCK QUADRANGLE.

(By E. L. McNair in 1916.)

Station.]	Satit	tude.	L	ongi	itude.	Distance between stations.
Freeport, 1 mile northeast of, in pine woods, persimmon tree 10 feet northwest of center of road and 160 feet southwest of gate; copper nail in root, painted "U.S. B. M. 1"	37 37	32 33	53. 5 38. 9	76 76	, 29 29	36. 5 09. 1	Feet. 5,098

Magnetic declination for south half of west side of quadrangle, 5° 59' W.

KING WILLIAM QUADRANGLE.

North along highways near east border of north half of quadrangle. (By E. L. McNair in 1916.)

Station.	I	Latii	tude.	Longitude.		Distance between stations.	
T road east	37 37 37	39 40 40	39. 9 05. 6 47. 4	° 77 77 77	00 00 00	00. 5 26. 2 20. 2	Feet. 3,322 4,267
tablet on top. King William courthouse, T road north. T road southwest at blacksmith shop. Road east.	37 37 37 37	41 41 41 42	17. 1 13. 4 39. 1 52. 9	77 77 77 77	00 00 01 01	46. 1 50. 0 57. 9 51. 6	3,650 488 6,043 7,482

Magnetic declination for east border of quadrangle, 5° 35' W.

Along highways in the northeast quarter of quadrangle.

Walkerton, center of draw span across Mattaponi River	37 37	43 43	22.6 41.9	77	01 01	33. 0 13. 6	2, 495
Road southeast.	37	44	13. 3	77	00	21. 9	5, 227

Magnetic declination for northeast quarter of quadrangle, 5° 50' W.

East along highways near north border of quadrangle.

T road corners Enfield post office, 25feet north and 35feet west of crossroads at, 15feet northwest of center of road, 2feet from wire-fence line,	37	44	47.1	77	13	25. 7	
about 100 feet from store and post office; iron post stamped "Prim. Trav. Sta. No. 31, 1916" T road south. T road south, 5 feet north of mail box.	37	44 44	31.7	77 77 77	11 10	08. 8 54. 0 52. 7	1, 424 6, 037 4, 951
Troad west. Manquin post office and store, about 150 feet west of, 115 feet west of road going southwest to Pamunkey, 15 feet south of road, close to wire-fence line; iron post stamped "Prim, Tray.	37	43	29.9	77	09	49. 7	8,044
Sta. No. 32, 1916" T road corners. T road north Road forks, center of grass triangle at.	37 37 37	42 42 42 43	32. 3 47. 5 14. 5 20. 0	77 77 77 77	08 07	16. 2 44. 4 11. 6 50. 0	6, 416 2, 979 8, 164
Road forks. T road north Rumford post office, T road at. T road north.	1 37	43 43 43	20. 0 41. 5 34. 4 28. 8	77 77 77 77	06 05	02. 4 31. 0 23. 0	6,843 4,400 2,625 858
Troad south	37	43 43 43	17. 0 06. 8 02. 5	77 77 77	04	58. 9 29. 0 49. 9	2,270 2,619 3,168
Sye, on right bank of Mattaponi River, between Sycamore and Chinkapin Landing on a point on Mill Farm. On front of a barn and a back fence of George Clark, 4 meters back from high-water mark and about 1 meter aboveit, within 1 meter							
of top of bank, on level ground; cement block 8x8x20 inches, standing 1 inch above ground and carrying a brass plate with explanatory legend. Submark is the nozzle of a quart bottle							
20 inches below surface. Reference marks: (1) Sycamore tree 20 inches in diameter protecting this land, distant 4.904 meers, 87° 49′ 12.0″ to right of line to station More; (2) southwest corner of George Clark's dwelling, distant 48.554 meters.							
200° 57′ 13.0″ to right of line to station More; (3) northeast corner of George Clark's house, distant 8.040 meters, 263° 05′							·
30.0" to right of line to station More; (4) cement block back of cluster on top of bank, at edge of field, distant 19.874 meters, 347° 09' 09.0" to right of line to station More	37	44	03.88	77	03	06.61	7,113

Magnetic declination for north border of quadrangle, 5° 00' W.

VERGINIA.

KING WILLIAM QUADRANGLE—Continued. Along highways near west border of quadrangle.

	-						
Station.]	Lati	tude.	1	юng	itude.	Distance between stations.
Note.—The positions on this line have not been adjusted as the closing error of 3.24" in longitude is excessive. It is thought that a mistake in measurement of a chain (300 feet) may have been made between the position of station 4219 at angle in road and that of station 4221 at T road south on the King William sheet. The positions as given for this area are based on the adjusted position of station 2981 at road forks. Troad east, second class. Troad east to Dabney's bridge. Angle in road. Troad south Troad south Totopotomoy Creek, center of wooden bridge over. Pamunkey station, 700 feet southeast of, 25 feet north of Troad corners, 4 feet east of corner fence post, 1.5 feet outside fence line; iron post stamped "Prim. Trav. Sta. No. 44, 1916". Tie point only.	37 37 37 37 37 37 37	, 41 41 40 41 40 39 38 38		° 77 77 77 77 77	, 14 14 13 13 13 11 12 12	42. 9 08. 8 31. 9 05. 0	ļ
Along highways from center to west bor	der	of o	nuadra	nele			1
					·-		
Dike triangulation station, on right bank of Pamunkey River, on shore fringed by brush and trees, about 170 meters below U. S. station dikes, about 160 meters above old Montague Landing, 10.5 meters back from shore line, where brush line makes back from river cutting off grassy swamp, on center of high bridge about 7 inches above high water; marked by an iron pipe 3 inches in diameter and 3 feet long, filled with and set in cement, standing 8 inches above the cement, and bearing at top a brass cap with legend. T road southwest and private road northeast. Granite post, 8 by 8 inches square, standing 2 feet above ground, on south bank of Matadequin Creek, 10 feet north of bridge, county-line stone between Hanover and New Kent counties. T road south. Road forks, about 30 feet north of small creek. Apperson's store, 50 feet west of, T road north. T road south.	37 37 37 37 37 37 37 37	37 36 36 37 38 38 38 38	20. 07 44. 7 59. 4 37. 1 09. 9 35. 1 32. 9 31. 6	777777777777777777777777777777777777777	11	16. 04 49. 7 15. 7 39. 3 57. 9 32. 0 04. 8 44. 0	8, 344 2, 567 4, 253 7, 141 3, 742 2, 648 3, 158
South along highways near south half of west	t bo	rde	r of qu	adr	angl	e.	
Old Church post office, T road south at	37 37 37 37	38 37 37 36	40. 3 54. 0 18. 5 42. 7	77 77 77 77	13	17. 2 24. 9 28. 3 12. 8	5,645 4,722 3,606 3,831
of crossroads, just inside field, 2 feet from corner fence post; iron post stamped "Prim. Trav. Sta. No. 45, 1916"	37 37 37	36 35 34 33	05. 8 11. 4 42. 4 59. 2	77 77 77 77	13 13 13	06.6 23.4 33.8 33.0 52.0	3,761 5,669 3,056 4,371 5,406
Alexander's store, 1 road east at. T road southwest. Crossroads, a cedar tree 15 feet east. Crossroads, second-class Crossroads, main roads. Road forks Dispatch flag station, Southern Ry. track, road crossing. Road forks, about 40 feet northeast of pine tree at point of triangle. Road forks, road southeast	37 37 37 37 37	33 32 32 31	16. 9 57. 6 37. 6 52. 1	77 77 77 77	12 12 12 11	30. 6 14. 4 53. 8	2,597 2,414 4,897

KING WILLIAM QUADRANGLE—Continued.

East along highways near south border of quadrangle.

Station.	Latitude.			Latitude. Lo			ongi	Distance between stations.
Road forks. Troad north to Quinton station Crossroads. Road forks, road southwest. Troad south New Kent courthouse, 8.25 miles west of, 3.75 miles south of Tunstall, at Pattersons Store, 35 feet north and 10 feet west of crossroads, 4 feet west of corner fence post; iron post stamped "Prim. Trav. Sta. No. 47, 1916." Road forks, second-class road southeast. Road forks, second-class road northeast. Troad north R. E. Richardson's store, Troad east at. Troad south Couch's store, Troad south at, a Troad north 20 feet west. Road forks, second-class road northwest. Road north through gate and field to White House station on railroad. New Kent courthouse, 2 miles west of, 10 feet south and 20 feet west of crossroads, road leading south to Providence Forge	37 37 37 37	32 32 32 32 32 32 31 31 31 31 31 31 31	00. 0 05. 6 18. 6 05. 2 01. 4 58. 1 55. 5 52. 5 07. 5 28. 6 23. 9 31. 4 37. 6	77 77 77 77 77 77 77 77 77 77 77 77	$06 \\ 05 \\ 04$	32.8 50.5	Feet. 2, 901 910 2, 955 1, 887 8, 489 1, 622 2, 714 1, 100 7, 097 3, 215 3, 442 7, 296 2, 899 2, 645	
west of crossroads, road leading south to Providence Forge and north to White House, 2.5 feet north of telephone pole; iron post stamped "Prim. Trav. Sta. No. 48, 1916"	37	31	23, 9	77	00	32. 5	_3,463	

Magnetic declination for center line of quadrangle (east and west), 4° 10′ W.; for west border, 4° 40′ W.

Along Richmond and Norfolk highway in southwest corner of quadrangle. (By E. L. MacNair in 1916.)

Road northwest. Chickahominy River, center of concrete bridge over. T road south Road forks, road west Road forks, about 35 feet west and 10 feet south of Elko Road	37 37	30 30	51.7 37.0	77	$\frac{12}{12}$	33. 1 26. 3 39. 4 53. 3	4,551 1,824 5,977
signboard, about 12 feet west of Lexington Hotel signboard; iron post stamped "Prim. Trav. Sta. No. 46, 1916"	37	30	29. 2	77	14	33.0	3,448

Along highways in southeast corner of quadrangle. (By J. H. Wilson in 1916.)

T road south Lane south leading to large white house on hill. Crossroads. Second-class road south.	 -SU	29. A	1 //	UI	25. (2,653 1,794 4,268

Magnetic declination in south part of quadrangle, 5° 03' W.

LAWRENCEVILLE QUADRANGLE.

South a long highways near southeast corner of quadrangle. (By J. C. Fales in 1918.)

Station.	I	atit	ude.	L	ongi	tude.	Distance between stations.
T road to white house with green trimmings 300 feet east Steel bridge, east guard fence at approach to, south end of T road west	36 36 36 36 36 36 36 36	, 49 48 48 48 47 46 46 45	03. 2 42. 1 25. 8 00. 4 09. 8 43. 3 11. 8 23. 2	77 77 77 77 77 77 77	45 45 45 46 46 46 47	10. 2 36. 2 53. 6 05. 2 31. 9 42. 3 28. 2 05. 7	Feet. 3,005 2,172 2,735 5,557 2,811 4,908 5,237

LAWRENCEVILLE QUADRANGLE—Continued.

Along Southern Ry. east from Edgerton.

Along Southern Ry. east from I	Edg	erto	n.				
Station.	1	Lati	tude.	I	ong	itude.	Distance between stations.
Edgerton, 100 feet west of depot, on north edge of cut; iron post stamped "Prim. Trav. Sta. No. 13, 1918"	36 36	, 46 46	41.1 21.4	° 77 77	, 46 45	18.1 14.3	Fect. 5, 562
Magnetic declination for southeast part of quadran	ıgle	, 4	° 10′	w.			
Along Southern Ry. west from Edgerton. (By :	г. С	. Fales	in 1	918.))	
Edgerton, third road crossing west of depot, in center of, joint in north rail. Crossing of Emporia-Lawrenceville road, south rail at. Milepost 91, south rail opposite Road crossing, 200 feet west of "Yard Limit" sign, at west edge	36 36 36	46 46 46	43.3 50.8 49.8	77 77 77	46 47 48	42.3 41.0 21.5	4,883 3,293
Orramband bridge at court and of side track, court mail at	36 36 36	45 45	59. 9 23. 7	77 77	49 50	25. 4 51. 0 03. 3	7,247 7,875
Overhead bruge at east end of sine track, south rail at Lawrenceville, at crossing sign, 60 feet east of freight house; iron post stamped "Prim. Trav. Sta. No. 16, 1918". Milepost 96, south rail opposite. Milepost 96, south rail opposite. Farm crossing. Overhead highway bridge, under west edge of, south rail. Charlie Hope, overhead highway bridge at, south rail under west edge of.	36 36 36 36	45 45 46 46	22. 9 36. 3 39. 8 02. 2 01. 3	77 77 77 77 77	51 51 52 53 54	54. 6 59. 4 42. 0 25. 8	1,007 4,387 5,284 4,141 3,558
Charlie Hope, overhead highway bridge at, south rail under west edge of.	36	45		77		25. 6	6,159
Southwest along Seaboard Air Line Ry. throu	gh c	ent	er of c	uad	rang	gle.	<u> </u>
Nottoway River, steel truss across, east rail at south end of. Milepost 51, east rail opposite	36 36 36 36 36 36 36 36 36 36 36 36 36 3	51 50 49 49 47 47 47	22. 5 13. 6 14. 1 29. 4 42. 9 43. 5 41. 7 31. 9 43. 5 57. 7 43. 9 46. 7 05. 2 42. 2	77 77 77 77 77 77 77 77 77 77 77 77 77	45 45 45 47 48 48 49 49 50 51 53 53 54 55 56 57 57 58	03. 3 32. 0 44. 5 49. 5 21. 8 48. 1 14. 0 36. 6 37. 9 34. 4 08. 6 01. 8 49. 5 20. 3 40. 0 22. 6 08. 2 45. 4 46. 1 46. 5 47. 5 48. 1 48. 2, 498 6, 209 5, 836 3, 451 3, 257 2, 085 5, 401 5, 326 7, 988 4, 698 8, 573 650 5, 309 4, 752 3, 953 3, 740 5, 557 8, 270 3, 195 4, 474	
Milepost 71, center of track opposite.	36 36	46 46	29. 1 05. 8	77	59 59	14. 2 56. 5	2,719 4,166
West along Virginian Ry. through center	er of	qu	adran	gle.			
Milepost 90, south rail opposite. Dolphin, at east end of side track, point of switch. Dolphin depot, opposite waiting-room door, joint in north rail of main track. Milepost 93, north rail opposite. Large concrete-arch culvert, north rail over. Milepost 94, center of track opposite. Road crossing, unpainted store 75 feet north Milepost 96, south rail opposite.	36 36 36 36 36 36 36 36	50 49 49 49 50 50 50 51	01. 5 57. 6 45. 9 55. 3 01. 5 11. 3 44. 4 11. 5	77 77 77 77 77 77 77 77	45 46 47 48 49 49 50 51	15. 1 27. 5 18. 9 23. 7 00. 5 25. 1 23. 3 11. 2	5, 897 4, 341 5, 345 3, 060 2, 223 5, 796 4, 760

LAWRENCEVILLE QUADRANGLE—Continued.

West along Virginian Ry. through center of quadrangle-Continued.

	_						
· Station.	1	atit.	ude.	L	ongi	tude.	Distance between stations.
County-road crossing, south rail at center line of	36 36 36 36	51 51 51	27. 5 47. 8 53. 8	77 77 77	51 52 53	39. 4 20. 6 08. 6	Feet. 2,801 3,924 3,944
(By J. C. Fales in 1918	.)						,
Alberta, Prim. Trav. Sta. No. 20 (previously described). Milepost 99, north rail opposite. Road crossing. Second-class road crossing, south rail. Overhead road crossing, center of. Overhead road crossing, north end of.	36 36 36 36 36 36	51 52 52 53 53 54	53. 8 08. 1 31. 8 18. 7 57. 4 11. 0	77 77 77 77 77 77	53 54 55 56 56 57	08. 6 08. 7 05. 2 06. 1 58. 2 56. 2	5,096 5,175 6,829 5,794 4,907
North along highways near west bord	er of	qua	drang	le.			
Danieltown, at southeast corner of crossroads, at store and post office; iron post stamped "Prim. Trav. Sta. No. 21, 1918". Road fork, northeast toward sawmill. Bridge, wooden, 14 by 20 feet, south end of. Road forks, middle of south leg of Y. Crossroads at Barrow's store, north point of Y at. Road fork east toward house of E. McDaniel. T road west. T road east. Jonesboro, opposite, 35 feet east of two-story building formerly store and post office. Nottoway River, southeast corner of bridge across, known as "Kennedy's Bridge". Crossroads near John Maddox's farm, at southwest corner of road intersection; iron post stamped "Prim. Trav. Sta. No. 22, 1918"	36 36 36 36 36 36 36 36 36 36 36	54 54 55 55 56 56 57 57 57 58 59	16. 0 49. 7 17. 4 50. 8 06. 3 47. 1 14. 8 55. 4 43. 5 21. 3	77 77 77 77 77 77 77 77 77	57 57 58 58 58 58 58 57 57 57	31. 9 42. 6 08. 3 05. 8 44. 7 46. 0 24. 2 59. 7 41. 8 47. 2	2, 031 3, 515 3, 489 3, 378 3, 530 4, 126 3, 319 4, 559 5, 079 3, 845
East along highways near north borde	r of	qua	drang	le.			<u> </u>
Road fork south Road fork to unpainted house, 300 feet east of main road	36 36	59 59	56. 0 56. 6	77	57 52	24. 1 09. 7	2,706
Nottoway River, wooden bridge across known as Gill's Bridge, north end of T road, at northeast corner of; iron post stamped "Prim. Trav. Sta. No. 25, 1918". Point opposite and 15 feet east of center of back wall of residence	36 36 36	59 59 58	46. 2 04. 3 25. 0	77 77 77	50 50 50	28.6 21.8 19.8	4,274 3,974
of J. Ř. Howerton. Zero, road T at T. E. Howerton's store. Road T, point opposite and 105 feet west of front door of large white frame church. Rawlings, railroad crossing at, on west rail.	36 36 36 36	57 57 57 56	42.5 25.1 25.2 54.1	77 77 77 77	50 49 47 46	01.7 33.5 56.1 44.5	4,538 2,891 7,906 6,601
North along highways from Grandy to Tobacco r	ear ·	west	t bord	er of	qu	adrang	;le.
Grandy depot. Road fork northeast to unpainted negro house 150 feet east of road T road east. T at junction of road from Grandy with road from Danieltown to Fairview, east point of triangle at. Road fork to unpainted two-story house 800 feet west Bridge, wooden, 16 by 40 feet, east end of. T road southeast. T road west.	36 36 36 36 36 36 36	49 49 50 51 51 51	29.3 06.7 18.5 43.1	77 77 77 77 77 77 77	57 57 57 56 56 56 56	37.6 24.5 20.8 58.9 46.9 25.6 31.7	7,248 4,587 4,350 4,177 1,546 3,028 5,467 4,677

Magnetic declination for north border of quadrangle, 4° 17′ W.; for west border of quadrangle, 3° 51′ W.

McKENNEY QUADRANGLE.

West along Virginian Ry. through south half of quadrangle. (By J. C. Fales in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
Milepost 76, south rail opposite. Milepost 77, south rail opposite. Milepost 78, 75 feet east of, 30 feet north of track; iron post stamped "Frim. Trav. Sta. No. 9, 1918". Milepost 80, south rail opposite. Milepost 82, north rail opposite. Milepost 83, south rail opposite. Milepost 83, south rail opposite. Road crossing at short spur track, south rail at center line of. Farm crossing, 400 feet west of milepost 86, south rail at center line of. Farm crossing, 400 feet west of milepost 86, south rail at. Adsit depot, opposite door of white waiting room, south rail. Milepost 88, south rail opposite. Smoky Ordinary, approximately opposite north face of post office, at west edge of road, 220 feet north of overhead bridge across Virginian Ry., near milepost 89; iron post stamped "Prim. Trav. Sta. No. 10, 1918"	o , , , , , , , , , , , , , , , , , , ,	o / // 77 30 26.8 77 31 29.2 77 32 31.7 77 33 33.9 77 34 38.6 77 35 19.4 77 36 41.0 77 37 45.3 77 41 02.0 77 42 03.0 77 43 05.2	Feet. 5, 260 5, 150 5, 330 5, 150 3, 743 6, 644 5, 284 5, 788 5, 765 4, 616 4, 966 5, 116
West along Southern Ry. near south bor	der of quadra	ngle.	
Milepost 82, north rail opposite. Milepost 83, south rail opposite. Road crossing Trestle, 150 feet pile bent, at east end of, south rail. Milepost 87, north rail opposite. Road crossing of Emporia-Lawrenceville road.	36 45 25.2 36 45 31.0 36 45 13.0 36 45 08.6 36 45 36.2 36 45 58.7	77 39 47.4 77 40 51.6 77 41 40.0 77 42 21.6 77 44 41.8 77 44 57.3	5, 254 4, 341 3, 411 2, 594
Along highways near east border of qu Road fork 0.25 mile southwest of Diston	36 56 28.5	77 30 08.4	
West along highways through north half of quadrang	36 55 53.8 le. (By J. C.	77 30 01.2 Fales in 1918.)	3,559
Road fork, 0.25 mile southwest of Diston. Matabelum's place, west barn at, road opposite west face of Truitt, 0.75 mile east of, fork west. Truitt, county road, 85 feet north of north face of M. L. Rose's store at. North side of road, opposite and 100 feet south of negro cabin. Intersection of roads at angle of 50°. T road west. Two-story house with exterior chimney 100 feet north of road, road opposite. Unpainted negro house belonging to James Abernathy, road opposite and 35 feet north of. Crossroads 75 feet south of church. Woodmen's Hall, 50 feet south of south line of, point in "Stage" road. 30-foot I-beam bridge with pipe railings, east end of, at center line. Road fork northwest, at Hartwell house. Unpainted storehouse on south side of road, road opposite Clark's store, opposite and 40 feet west of front door of. Old log tobacco barn 400 feet west of road, road opposite Crossroads, 500 feet east of tobacco warehouse. Picket wagon gate to white house 400 feet west, road opposite Crossroad from schoolhouse, 300 feet east to white dwelling, 700 feet west of. Crossroad known as "Pony Road" McKenney, 0.5 mile east of depot on Seaboard Air Line Ry., 300 feet west of intersection of Bolling Road with center line of Boydtow Plank Road; iron post stamped "Prim. Trav.	36 56 28.5 36 56 23.5 36 55 57.9 36 56 07.0 36 56 13.2 36 55 58.0 36 55 38.2 36 55 42.7 36 55 44.8 36 55 19.9 36 55 19.9 36 54 44.4 36 55 19.9 36 55 55.0 36 55 55.0 36 55 55.0 37 32.6 38 55 55.0 39 55 55.0 30 55 55.0 30 55 32.8 30 54 44.4 44.4 43 55 55.0 36 55 55.0 37 32.6 38 55 55.0 38 55 55.0 39 55 55.0 30 55 55.0 30 55 55.0 30 55 55.0 31 30 55 55.0 32 55 55.0 33 55 55.0 34 54 54.1 55 55.0 56 55 55.0 57 32.6	77 30 08.4 77 31 04.5 77 32 10.1 77 33 37.4 77 33 52.3 77 34 08.8 77 35 45.1 77 36 41.1 77 37 05.8 77 37 24.9 77 38 18.7 77 39 46.8 77 39 46.8 77 40 05.3 77 40 05.3 77 40 33.0 77 40 33.0 77 40 33.0 77 40 54.6 77 41 56.7 77 42 07.6	4, 595 5, 918 4, 213 3, 046 1, 947 2, 411 4, 617 3, 372 4, 565 2, 017 3, 086 5, 846 4, 854 3, 666 1, 740 5, 482 2, 064 5, 482 1, 915 4, 915

McKENNEY QUADRANGLE-Continued.

Along Seaboard Air Line Ry. northeast from McKenney.

Station.			tude.	L	ongi	tude.	Distance between stations.
McKenney, on east rail of main track of Seaboard Air Line Ry., at second joint north of north face of depot	36 36	59 59	18. 4 58. 2	77 77	43 42	21. 5 09. 2	Feet. 2,683 7,106
North along highways near west borde	er of	qu	adran	gle.			
Smoky Ordinary, Prim. Trav. Sta. No. 10 (previously described).	36	49	55.4	77	44	02.1	4 707

Road fork at 30° angle, point of gore. Sign reading "Lawrenceville 11 miles," road opposite. T road to unpainted house 700 feet east of road junction. 34. 2 19. 2 00. 1 43 43 44 30. 1 46. 8 08. 2 15. 0 77 77 77 77 77 77 4,754 36 Timber bridge 150 feet long, south end of Concrete bridge, south end of T road to white bungalow 500 feet west 36 52 11.2 44 36 6,836 16.0 09.6484 Plank bridge across road ditch, at entrance to log cabin, read 02.0 05.0 77 77 77 77 Opposite T-beam girder bridge 90 feet long, with piperailing, north end of. Woods road east through barred gate, road opposite. Nottoway River, steel bridge across, south end of. Unpainted barn 10 feet east of road, east edge of road opposite 36 55 08.4 10.3 36 36 55 56 39. 4 41. 2 11 2 59.6 6,317 north face of ... 36 13.4 43 42.9 3,532 Woven-wire gate, at entrance to white house 600 feet west, road 5,618 5,894 36 58 57.6 43 01.0

Magnetic declination for north half of quadrangle, 4° 10' W.; for west border of quadrangle, 4° 20' W.

Along Seaboard Air Line Ry. near west border of quadrangle. (By J. C. Fales in 1918.)

Overhead road crossing, west rail at north edge of (8,431 feet from position at McKenney station)	36	58	20.6	77	44	36. 2	

MONTROSS QUADRANGLE.

Along highways near southeast corner of quadrangle. (By E. L. McNair in 1916.)

Station.	Latitude.	Longitude.	Distance between stations.
Private road south through gate. Center of road at ford across small creek. Road, second class, southeast. Center of wooden bridge over small creek.	38 00 26.8 38 00 32.6 38 00 50.1 38 00 63.0	76 45 07.7 76 45 35.8 76 46 02.9 76 46 24.4	Feet. (4,721) 2,325 2,799 5,059

Along highways near south border of quadrangle (east half).

Crossroads, second class, 15 feet east of old gate	38	00 00	09. 3 55. 2	76 76	49 50	31.7 04.3	(8,117) 5,328
Nest of center of rotal, infine with rotal southeastery to Earle, 1.5 feet from northeast corner of old store building; iron post stamped "Prim. Trav. Sta. No. 20, 1916" Fork of road, center of triangle at. T road	38 38	01 [.] 00	57. 9	76	50	48.0	2,321 2,786 5,014

Magnetic declination along border near southeast corner of quadrangle, 6° 10 W.

MORATTICO QUADRANGLE.

North along highways near east border of quadrangle. (By E/L. McNair in 1916.)

2701th along highways hour cast border or quadran	5.0.		· y 2. 2.				
Station.	I	Latit	tude.	L	ongi	tude.	Distance between stations.
Private roadway east to dwelling house. Alfonso post office, about 40 feet west of, T road corners at, 15 feet west of wall our cord to white part tree? 2 feet in disameter.	。 37	, 48	" 19. 2	。 76	, 30	" 21. 4	Fcet. 3,395
feet west of well, on root of white-oak tree 2.5 feet in diameter; copper nail and washer, tree painted "U. S. B. M. 8". Troad northwesterly. Troad west, another road turns east 25 feet farther north. Road east through woods. Troad corners, 100 feet west of Lara store and post office. Forks of road. Forks of road, 70 feet north west of signboard marked "Heaths-	37 37 37 37 37 37 37	48 49 49 49 50 51	32. 6 05. 9 24. 6 59. 3 32. 8 10. 0 43. 3	76 76 76 76 76 76 76	30 30 31 30	30. 4 33. 1 24. 0 29. 4 33. 8 03. 4 33. 8	1,542 3,371 2,031 3,537 3,410 4,447 4,118
Road east through woods. Troad corners, 100 feet west of Lara store and post office. Forks of road. Forks of road, 70 feet northwest of signboard marked "Heathsville, Lara, Miskimon". Heathsville, 3½ miles (by road) northwest of, 8 feet west of road Heathsville to Lara, 540 feet south of Gulick's corners, opposite house on east side of road, in line with east-west fence and south of lane going west to house; iron post stamped "Prim. Trav. Sta. No. 11, 1916".	37		55. 7 27. 6			16. 3 04. 3	(1,719)
Magnetic declination for east border of quadrangle	э, 5	° 38	8′ W.				
Along highways in southeast corner of quadran	ıgle.	(0	Checked	i sp	ur li	ne.)	
Lively post office, crossroads at Crossroads, second class Road forks, second-class road southwest Beanes Mill, center of road over mill race Bethel M. E. Church South, center of road in front of	37 37 37 37 37 37	46 46 45 45 45	39. 7 16. 9 47. 3 32. 7 08. 5		30 -31 31 32 32	50. 0 14. 0 42. 4 10. 8 32. 9	(5,060) 3,012 3,755 2,722 3,024
Magnetic declination in southeast corner of quadr	ang	le,	5° 40′	w.			
Northwest along highways near northeast	cori	er c	of quad	lran	gle.		
Crossroads, just north of road forks A. L. Clark's mill, center of road over mill race. T road corners. Lottsburg, 20 feet east and 10 feet north of, at T road west, at north end of private hedge; iron post stamped "Prim. Trav. Sta. No. 13, 1916". Road forks near church.	37 37 37	56 56 56	08. 0 48. 7 52. 9	76 76 76	30 30 31		(2,613) 4,203 2,828
Handlay's mill at prossing of mill rose center of road	27	57 57 58 58	26. 9 50. 3 07. 2 10. 3	76 76 76 76	31 31 31 32	05. 7 13. 4 43. 3 31. 4	3, 455 2, 453 2, 942 3, 863
Callao, 10feet south and 40feet east of crossroads at, 18feet east of center of road, 3 feet from telephone pole; iron post stamped "Prim Trav. Sta. No. 14, 1916" Ford across small creek Road south. Hyacinth post office, road forks, 100 feet south of T road corners.	101	58 58 58 59 00	10. 3 31. 5 31. 8 24. 9 00. 1	76 76 76 76 76	35	35. 8 21. 5 44. 5 23. 9 57. 8	5, 154 4, 249 1, 843 6, 227 4, 129
Along highways near northwest corne	r of	qua	drang	le.			!
Private roads at bend in main road	37 37 37 37 37 37	59 59 59 59 59	46. 7 36. 6 33. 4 42. 9 50. 3	76 76 76	41 41	49. 2 12. 5 56. 7 43. 1 43. 6	(6, 025) 2, 129 3, 558 3, 830 4, 877
Along highways near west border o	of qu	ıadı	angle.	•			'
Second-class road west	37 37 37 37	59 58 57 56	16. 5 40. 0 02. 2	76 76 76 76	44 44	56. 0 19. 1 57. 6 48. 2	(3, 562) 4, 136 (3, 680) 3, 709
							<u>'</u>

MORATTICO QUADRANGLE—Continued.

Checked spur line along highways near west border of quadrangle.

Station.	I	atit	ude.	L	ongi	tude.	Distance between stations.
Road west Road east Road south, second class	37	55 54 54	20. 8 56. 9 36. 5	76	44	00. 2 53. 7 51. 5	Fect. 6,692 2,470 2,078
Along highways west to east through cer	ater	of c	luadra	ngle	•		
Center of bridge over Totuskey Creek	37	55	24. 5	76	43	15. 5	(9, 702)
of road Road northeast. Road west. T road north at Emmerton. Road forks. Fork of roads near church, road southeast. Farnham post office, 0.8 mile west of, at corner where road goes west to Sharps. 15 feet south of Emmerton-Farnham road and	37 37 37 37 37 37	55 54 54 53 53 53	01. 0 25. 4 03. 6 56. 4 27. 8 22. 9	76 76 76 76 76 76		57.8	6, 374 5, 674 2, 325 1, 075 3, 906 1, 520
20 feet east of road to Sharps, 20 feet from corner fence post; iron post stamped "Prim. Trav. Sta. No. 18, 1916". Farnham post office, 350 feet west of, T road north. T road north T road south Private road to house. Farnham, 33 miles southeast of, 12 feet southeast of center of road, in root of pine tree; copper nail and washer, painted "U. S.	37 37 37	53 52 52 52 52 52	27. 7 09. 6 59. 6 47. 3 38. 1 00. 9	76 76 76 76 76 76	38 37 36 35 35 34	13. 5	8, 040 3, 964 5, 601 3, 697 2, 404 5, 200
B. M. 11" Center of Lara-Farnham road, in line with road south Road forks, center of grass triangle at. Road forks, road north about 100 feet east of road south Road forks, about 0.6 mile north of camp grounds Crossroads, second-class road west through woods. T road corners, road east. Road forks, 15 feet east of signboard Road forks, 30 feet southeast of signboard Prim. Trav. Sta. No. 11	37 37 37 37 37 37	51 52 52 53 53 54 53 54 53	49. 0 46. 4 10. 9 08. 2 05. 6 31. 5 08. 5 50. 6 03. 7 27. 6	76 76 76 76 76 76 76 76 76	33 33 33 32 32	28. 6 33. 0 41. 0 49. 2 07. 9	2, 410 862 3, 511 1, 686 6, 349 2, 646 3, 794 4, 527 3, 564 6, 278

Magnetic declination near northeast corner of quadrangle, 5° 45′ W.; near northwest corner of quadrangle, 5° 54′ W.; near west border of quadrangle, 6° 10′ W.; west to east through center of quadrangle, 5° 40′ W.

Along highways across extreme southwest corner of quadrangle.

Montague post office, T road north at store	37	46	05. 1	76	44	14.3	(4,021)
Sta. No. 22, 1916" (this post is said to be exactly on line between Essex and Middlesex counties)	37	45	25. 9	76	4 3	22. 4	5, 759
Along highways near south border				i		00.7	
Along highways near south border T road northwest, second class Butylo post office, at crossing of Middlesex and Essex county line, center of road Temporary bench mark No. 13, at Bay Port, 100 feet south of store and post office, 20 feet west of road, at edge of timber;	37 37	46	16. 6 09. 3	76		39. 7 12. 8	9, 711 2, 280

Magnetic declination for extreme southwest corner of quadrangle, 5° 40′ W.; magnetic declination near south border of quadrangle, 5° 35′ W.

1

MOYOCK QUADRANGLE.

South along Norfolk Southern R. R. near northwest corner of quadrangle. (By F. J. McMaugh in 1917.)

Station.	Latitude.		Latitude. Longitude		tude.	Distance between stations.	
Road crossing Butts, road crossing at Tree, east of fork in road Intersection of farm road west, 20 feet southwest of corner of	36 36 36 36	, 44 44 44	56. 8 35. 6 45. 2	76 76 76 76	, 13 13 12	50. 1 26. 9 52. 7	Fect. 2, 862 2, 950
fence	36	44	59.1	76	12	33. 5	2,098

NEW KENT QUADRANGLE.

Near Dudley's ferry. (By. E. L. McNair in 1916.)

Station.	Latitude.			Latitude.			Latitude. Longitude			tude.	Distance between stations.
Dudley's ferry, Brooks's residence at, in west wall between two chimneys; bronze tablet stamped "Prim. Trav. Sta. No. 349" Dudley's ferry, 0.5 mile east of forks, 25 feet west and 10 feet north	37	31	47. 7	76	46	" 49. 4	Fect.				
Triangulation station Mat, on east side of Mattaponi River, about 1,800 meters northeast of West Point, on "Shell Point," on land of Mr. George, on southwest end of old field forming a point of high ground between river and grassy bight 30 meters wide and 60 meters long, 13 meters back from high-water line and 8 feet above it; cement block 8 by 8 by 24 inches with legend and triangle. Reference marks: (1) Head of spike in lonecedar tree, 9-in. in diameter, near foot of slope between station and river, distance 7.472 meters, 115° 33' 18.3" to right of line to station Brooks; (2) cement block at edge of brush, 1 foot northwest from fence on south side of farm road, distance	37	31	53. 4	76	46	20.9	2,381				
45.321 meters, 247° 58′ 23.3″ to right of line to station Brooks. Old chain ferry, near.	37 37	$\begin{array}{c} 32 \\ 32 \end{array}$		76 76	46 46	48. 4 36. 0	4,202 2,376				
White-oak tree at angle in road; copper nail in root painted "U. S. B. M. 3". Elsom post office, 700 feet south of, T road corner	37 37	33 34	53. 5 11. 7	76 76	45 45	36. 0 10. 7	8, 008 2, 740				

Magnetic declination for south half of east side of quadrangle, 5° 24' W.

Near east border of quadrangle.

Road forks, about 600 feet southeast of Wares Church	37	40	49. 1	76	45	04. 5	(7,160)
Along highways near west border of	qua	draz	ıgle.				
Manor triangulation station. Road crossing at Lester Manor station, on Southern Ry. Road forks, road northwest to Idaho. Crossroads at Lanesville Lanesville, 3 mile north of, at forks of road at Brooks blacksmith shop, in line of roads in three directions, 3 feet north of telephone pole; iron post stamped "Prim. Trav. Sta. No. 23, 1916".	37 37 37 37	35 35 36 37	58. 11 05. 8 41. 6 52. 7	76 76	59 59 58	27. 55 27. 9 36. 6 43. 4	784 3, 685 8, 369
Road west to sawmills. Temporary bench mark No. 17, 2.85 miles north of Lanesville, on Walkerton road, at edge of woods, 10 feet south of road, in root of white-oak tree; copper nail marked "U. S. B. M. 17".	37	38	01. 0 51. 6			58. 4	3,968 6,627

Magnetic declination near east border of quadrangle, 5° 35′ W.; near west border of quadrangle, 5° 35′ W.

NEW KENT QUADRANGLE-Continued.

East along highways near north border of quadrangle.

Station.	Latitude.			Latitude.			L	ongi	tude.	Distance between stations.
T road northwest. Center of bridge over creek Forks of road, about 400 feet south of Favor post office. Center of bridge over small creek T road corners at Brown's store. Stevensville, crossroads at Road forks. Cumnor post office and store, 100 feet southeast of, on southeast side of road, 2 feet from fence line, in line of road northwest; iron post stamped "Prim. Trav. Sta. No. 25, 1916". Forks of road, about where wagon tracks part. Road north, second class. Forks of road, 100 feet south of brick church.	37 37 37 37 37 37 37 37	, 44 44 44 43 43 43 43 44 44		76 76 76 76 76 76 76 76 76 76	, 59 58 57 56 55 55 53 52 51 51 50	28. 9 58. 3 21. 4 12. 6 12. 6 59. 6 48. 4 22. 6	3, 260 2, 987 8, 325 1, 940 9, 641 1, 375 6, 288 2, 995 4, 975			

Magnetic declination for northwest quarter of quadrangle, 5° 50′ W.

East along highways near south border of quadrangle.

Road forks, second-class road south	37	30	53.3	76	59	29.6	
road. New Kent courthouse grounds, U. S. Coast and Geodetic Survey north meridian mark: stone post 6 by Sinches, standing 2 feet	37	30	57.7	76	58	54.0	2,907
above ground, has been graded around; tower of courthouse is 52 feet distant, bearing S. 15° 30′ E	37 37	31 31	04. 4 03. 4	76 76	58 58	43.3 22.6	1,100 1,670
Crossroads		31	02. 0	76	58	04.6	1,455
Road forks	37	30	59. 4	76	57	56. 8	684
T road southwest, in triangle formed by roads, 3 feet northeast	١٠.	-	00.1		٠.	00.0	001
of large oak tree	37	30	34. 8	76	57	20.3	3,857
T road north	37	30	10.4	76	55	55. 1	-,
Private road south to house	37	30.	23.0	76	54	38. 7	
T road south	37	30	25.4	76	54	31.0	673
Road forks, point is at parting of wagon tracks	37	30	08.5	76	54	02.7	2,853
Road forks	37	30	09.0	76		31.5	2,512
T road south in woods, about 20 feet east of road north	37	30	02.3	76		03.5	2,357
Road forks, 400 feet southeast of church		30	07.0	76		28.4	2,875
T road south		30	01.4	76		14.8	1,235
Road forks	37	30	03.5	76		55. 4	
Bridge over small creek	37	30	03.3			40.7	1,192
Road forks, about 60 feet south of where wagon tracks meet	37	30	11.3			20. 2	1,835
Road forks	37	30	23.0			19, 6	1,193
T road, second class, a little east of south	37	31	00.1	76	48	50.4	4,421
Brick House (2) triangulation station, on most promising point	ı			ŀ			
of ground on west side of York River southeast of West Point.	l						1
On each side of this point, which is 70 meters wide, a prong							
of marsh extends into the land. Station is 15 meters back)			1			Į.
from top of river bank and 30 meters from high-water line and							1
about 8 feet above it, on center point of high ground of old	İ			Į			
field; cement block 8 by 8 by 24 inches with legend and tri-	1						i
angle on brass cap cast in the top. Reference mark: Cement block with brass cap and arrow. Block is 8 by 8 by 24 inches	Į			Į			1
block with brass cap and arrow. Block is 8 by 8 by 24 inches	1						
and projects 1 inch above surface of ground, distant 50.203 me-	1		40.00	١			0.000
ters, 213° 46′ 54.3" to right of station Pam	37	30	46.00	76	48	17.98	2,976
	l			1			Į.

Magnetic declination along south border of quadrangle, 5° 00′ W.

Along highways diagonally through the northeast quarter of quadrangle.

Creek, center of bridge over. Road forks, at parting of wagon tracks	37 37 37 37 37 37 37 37	44 43 43 42 42 42 41	05. 5 46. 5 29. 2 13. 9 47. 8 31. 3 03. 2 30. 1	76 76 76	47 46 46 45	46. 1 56. 8 29. 5. 00. 1 51. 2 52. 1 03. 4 50. 8 29. 4 38. 1 04. 52	2,090 2,918 2,939 1,703 2,643 1,893 -3,015 3,769 4,862 3,127
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NEW KENT QUADRANGLE—Continued .

West along highways through center of east half of quadrangle.

Station.	Latitude. Longitude.					tude.	Distance between stations.
Road forks, at west end of triangle formed by roads, in line with road southwest to Little Plymouth and road north to Coldwater. Road forks, second-class roads north and northwest. Crossroads, about 200 feet north of small house. Temporary bench mark No. 19, on south side of road, near edge of swamp where an old road goes south; copper nail driven in side of gumtree, painted "U. S. B. M. 19". Road forks, road north. Plymouth, 0.8 mile north of, at E. Bew's store, opposite road east to Coldwater, 15 feet west of road north to Dragonville, 2.5 feet west of telephone pole, inside of wire fence; iron post stamped "Prim. Trav. Sta. Nof. 28, 1916". Little Plymouth post office, T road corners at, road southwest. Clifton Landing, T road northeast. Clifton triangulation station, on left bank of Mattaponi River, 0.25 mile above Clifton wharf, on lower part of large marsh, about 180 meters above the mouth of creek running behind marsh, in front of western quarter of a small circle of pine trees	37 37 37 37 37 37 37		77 16. 34 50. 2 29. 2 06. 7 13. 8	76 76 76 76 76	45 46 46 47 47	08. 5 24. 8 44. 9	5,784 2,496 6,828 1,167 1,727 4,046 6,190
on opposite side of creek, 6 meters back from high water river line and 12 meters back from lower outer grass line, on some- what firm marsh ground, 1 foot above ordinary high water; marked by an iron pipe	37	36	25.70	76	49	18.76	4,972

Magnetic declination for northeast quarter of quadrangle, 5° 30′ W.; for center of east half of quadrangle, 5° 30′ W.

NEWPORT NEWS QUADRANGLE.
South along Norfolk Southern R. R. (By F. J. McMaugh in 1917.)

Station.	Latitude.		Latitude. Longitude.				tude.	Distance between stations.	
			,,	-		,,			
	-			1			Feet.		
Second-class road crossing	36	49	24.6		15	18.4			
Road crossing	36	49	14.8	76	15	28.2	1,26		
Carolina Junction, south rail of Virginian Ry. and east rail of	l			l			1		
Norfolk Southern R. R	36	49				42.9	1,90		
Road crossing, 300 feet south of south end of siding	36	48	25.6			29.1	3,67		
Road crossing	36	48	09.8			24.3	1,64		
Providence siding, road crossing just south of	36	47	54.0	76	15	19.5	1,65		
Providence Junction, Switch at north end of siding, opposite							1		
sign "Providence Junction"	36	47	18.6	76	15	08.6	3,68		
Second-class road crossing, 36 feet north of semaphore at south				l			1		
end of siding	36	46	53.2	76	15	00.8	2,65		
· ·				ı			'		
North along Virginian (Tidewater) Ry. (B	y F	. J.	McMau	gh i	n 19	17–18.)			
North along Virginian (Tidewater) Ry. (B	y F.	. J. :	McMau	gh i	n 19	17-18.)	1		
	<u> </u>			gh i:		01.2	<u> </u>		
Second-class road crossing	<u> </u>		18.3	ī			ļ		
Second-class road crossing	36	52	18.3	76	15	01.2			
Second-class road crossing	36	52 52	18.3 36.8	76	15 15	01. 2 05. 7	1,89		
Second-class road crossing Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at Second-class road crossing	36 36 36	52 52 52	18.3 36.8 42.7	76 76 76	15 15 15	01. 2 05. 7 07. 2	1,89		
Second-class road crossing Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at Second-class road crossing	36 36 36	52 52	18.3 36.8 42.7	76 76 76	15 15 15	01. 2 05. 7	1,88		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at. Second-class road crossing. Railroad trestle, south end of. Trestle, 400-foot, south end of, about 400 feet south of road cross-	36 36 36 36	52 52 52 52 53	18.3 36.8 42.7 05.5	76 76 76 76	15 15 15 15	01. 2 05. 7 07. 2 12. 9	1,89 6 2,38		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at Second-class road crossing. Railroad trestle, south end of. Prestle, 400-foot, south end of, about 400 feet south of	36 36 36	52 52 52 52 53	18.3 36.8 42.7	76 76 76	15 15 15 15	01. 2 05. 7 07. 2	1,89 6 2,38		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at Second-class road crossing. Railroad trestle, south end of Prestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one	36 36 36 36 36	52 52 52 53 53	18.3 36.8 42.7 05.5 17.5	76 76 76 76 76	15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9	1,88 6 2,33 1,23		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry. at Second-class road crossing. Railroad trestle, south end of. Trestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings)	36 36 36 36 36	52 52 52 53 53	18.3 36.8 42.7 05.5 17.5	76 76 76 76 76 76	15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2	1,86 6 2,33 1,23		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at Second-class road crossing. Railroad trestle, south end of. Trestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Trestle, south end of, about 440 feet south of road crossing.	36 36 36 36 36 36 36	52 52 52 53 53 53 54	18.3 36.8 42.7 05.5 17.5 50.9 13.5	76 76 76 76 76 76 76	15 15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8	1,88 6 2,38 1,22 3,44 2,33		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at Second-class road crossing. Railroad trestle, south end of. Trestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Trestle, south end of, about 440 feet south of road crossing.	36 36 36 36 36 36 36	52 52 52 53 53 53 54	18.3 36.8 42.7 05.5 17.5 50.9 13.5	76 76 76 76 76 76 76 76 76	15 15 15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8 35. 9	1,86 6 2,38 1,2 3,44 2,33 1,56		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry. at. Second-class road crossing. Railroad trestle, south end of. Trestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Trestle, south end of, about 440 feet south of road crossing. Second-class road crossing.	36 36 36 36 36 36 36	52 52 52 53 53 53 54	18.3 36.8 42.7 05.5 17.5 50.9 13.5	76 76 76 76 76 76 76 76 76	15 15 15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8	1,86 6 2,38 1,2 3,44 2,33 1,56		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at. Virginian Ry, at. Second-class road crossing. Railroad trestle, south end of. Prestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Prestle, south end of, about 440 feet south of road crossing. Second-class road crossing. Point of switch, 300 feet southeast of road crossing. Intersection of Virginian Ry, and electric railroad, on north rail	36 36 36 36 36 36 36 36 36 36	52 52 52 53 53 53 54 54 54 54	18.3 36.8 42.7 05.5 17.5 50.9 13.5 27.5 32.9	76 76 76 76 76 76 76 76 76	15 15 15 15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8 35. 9 41. 6	1,88 6 2,38 1,22 3,44 2,33 1,55		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry. at. Second-class road crossing. Railroad trestle, south end of. Trestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Trestle, south end of, about 440 feet south of road crossing. Second-class road crossing.	36 36 36 36 36 36 36 36 36 36	52 52 52 53 53 53 54 54 54 54	18.3 36.8 42.7 05.5 17.5 50.9 13.5	76 76 76 76 76 76 76 76 76	15 15 15 15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8 35. 9	1,88 6 2,38 1,22 3,44 2,33 1,55		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at. Virginian Ry, at. Second-class road crossing. Railroad trestle, south end of. Prestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Prestle, south end of, about 440 feet south of road crossing. Second-class road crossing. Point of switch, 300 feet southeast of road crossing. Intersection of Virginian Ry, and electric railroad, on north rail	36 36 36 36 36 36 36 36 36	52 52 52 53 53 54 54 54 55	18.3 36.8 42.7 05.5 17.5 50.9 13.5 27.5 32.9	76 76 76 76 76 76 76 76 76	15 15 15 15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8 35. 9 41. 6	1,86 6 2,38 1,2 3,44 2,33 1,56		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at. Second-class road crossing. Railroad trestle, south end of. Trestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Trestle, south end of, about 440 feet south of road crossing. Second-class road crossing. Point of switch, 300 feet southeast of road crossing. Intersection of Virginian Ry, and electric railroad, on north rail of Virginian and east rail of east track of electric road. South along electric railroad.	36 36 36 36 36 36 36 36 36	52 52 52 53 53 54 54 54 55	18.3 36.8 42.7 05.5 17.5 50.9 13.5 27.5 32.9	76 76 76 76 76 76 76 76 76	15 15 15 15 15 15 15 15	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8 35. 9 41. 6	1,88 6 2,38 1,22 3,44 2,33 1,55		
Second-class road crossing. Fairmont Park, intersection of Ocean View electric line and Virginian Ry, at. Second-class road crossing. Railroad trestle, south end of. Prestle, 400-foot, south end of, about 400 feet south of road crossing. Road crossing, about 60 feet south of switch stand (northerly one of two crossings). Prestle, south end of, about 440 feet south of road crossing. Second-class road crossing. Point of switch, 300 feet southeast of road crossing. Intersection of Virginian Ry, and electric railroad, on north rail of Virginian and east rail of east track of electric road.	36 36 36 36 36 36 36 36 36 36 36	52 52 52 53 53 54 54 54 55	18.3 36.8 42.7 05.5 17.5 50.9 13.5 27.5 32.9	76 76 76 76 76 76 76 76 76 76	15 15 15 15 15 15 15 15 15 16	01. 2 05. 7 07. 2 12. 9 15. 9 24. 2 29. 8 35. 9 41. 6	1,8 6 2,3 1,2 3,4 2,3 1,5		

NEWPORT NEWS QUADRANGLE-Continued.

West along highway.

Station.]	Latit	tude.	L	ong	tude.	Distance between stations.
T road south, center of	。 36	, 54	58. 7	° 76	, 16	,, 59, 0	Feet. 3,002
yellow store 150 feet east of lane	36	54	57.7	76	17	57.9	4,786
T road south, center of. T lane south, white house with green shutters on west side, yellow store 150 feet east of lane. On electric railroad, west rail of east track, 12 feet north of milepost marked "N 6".	36	54	58, 0	76	18	31.9	. 2,758
North along electric railr	oad.						.'
Lawless station Glendale Avenue crossing, on west rail of east track Intersection of Pine Beach electric line and belt line, south rail	36 36	55 55	02. 4 38. 9	76 76	18 19	36. 7 04. 4	589 4,323
and west rail of east track. Intersection of Virginian Ry, and Pine Beach electric line, 65.14 feet east of west rail of east track. 8 feet east of east abutment	36	56	14.0	76	19	07.4	3,650
of railroad bridge, 3 feet south of telegraph pole; iron post stamped "Prim. Trav. Sta. No. 4, 1917". Overhead bridge of Virginian Ry., center of.	36 36	56 56	32. 5 33. 0	76 76	19 19	08. 2 09. 0	1,872 83
East along electric railroad from Pine Be	ach	to	Ocean	View	7.		
Intersection of west rail of railroad spur and north rail of electric	36	56	40.0	70	10	25, 8	2 500
road. Pehnsylvania State Building, tower of (U. S. Coast and Geo-							3,582
detic Survey triangulation station). Bush Creek, west end of bridge over.	36 36	57 56	02. 87 38. 3	76 76	18 18	47. 44 05. 7	2,899 1,642
Mason Creek, west end of bridge over Mason Creek, west end of bridge over Mason Creek, center of draw span over Road crossing	36 36	56 56	$27.0 \\ 24.0$	76 76	17 17	33. 8 09. 0	2, 837 2, 033
Mason Creek, center of draw span over	36	56	24. 1	76	17	02.7	513
		56 56	$29.1 \\ 41.0$	76 76	16 16	45. 2 27. 4	1,509 1,880
Road crossing near Ridgeville station.	36	56	56. 1	76	16	03.0	2,499
Road crossing at Windemere station. Virginia Bay station, 100 feet north of, on east rail of west track, in line with north rail of south track of electric railroad. Ocean View station, south end of.	36 36 36	57 57 57	02. 8 28. 0 12. 4	76 76 76	15 15 15	51. 0 23. 2 02. 6	1, 192 3, 395 2, 304
West on highway from Oxford s	tati	on.		1			1
Intersection of Ocean View road and Pine Beach road	36	54	58. 1	76	15	15. 8	ļ
West along highways and railroads. (By F.	J. M	c M a	augh in	1918	3.)		'
Carolina Junction, intersection of Virginian Ry. and Norfolk				l			
Carolina Junction, intersection of Virginian Ry. and Norfolk Southern R. R. Road crossing	36 36	49 48	00. 1 56. 7	76 76	15 15	42. 9 46. 3	440
Road crossing. Intersection of Virginian and Norfolk & Western railroads,	36	48	47.7	76	15	55. 3	1, 172
south and west rails	36	48	34. 2	76	16	08. 9	1,756
south and west rails. Middle of road, at trolley line. South rail, at east end of trestle.	36 36	48 47	07. 4 48. 4	76 76	16 16	35. 7 59. 5	3,482 2,721
Tank of Texas Oil Co.	36	47	51.5	76	17	15.0	1,303
Tank of Texas Oil Co. Draw span over South Branch, center of. South Branch station, south roll at somewhere	36 36	47 47	49. 4 49. 2	76 76	17 18	35. 3 07. 5	1,666 2,620
South Branch station, south rail at semaphore. Intersection of Virginian Ry. and trolley line	36	47	44.1	76	18	41.9	2,847
Intersection of Virginian Ry, and trolley line. Intersection of Deep Creek road and Virginian Ry	36 36	47 48	34. 8 13. 8	76 76	19 19	44. 8 20. 0	5, 198 4, 429
T road southwest. South end of bridge.	36	48	35. 1	76	19	03. 2	2,552
South end of bridge Road crossing trolley to east Petersburg Excelsior Mill, east of, Southern Ry. and Belt Line,	36	49	01.8	76	19	31. 4	3,544
east and south rails	36	49	26, 4	76	19	47. 2	2,800
Point of switch, east of junction of single track of Southern Ry. and main line of Seaboard Air Line Ry., cabin 100 feet south. Portsmouth, intersection of Seaboard Air Line Ry. and Elm Avenue, 86 feet north of, in southwest corner of S. B. Carney's	36	49	21.3	76	20	20, 5	2,760
ward 25 feet east of center line of read iron nest stamped	36	49	11.1	76	20	42.8	2,084
"Frim Trav. Sta. No. 10, 1918". Port :mouth, 12 feet east of center of road, 4 feet west of east end of pipe culvert across Elm Avenue, near intersection of east	00						-,

NEWPORT NEWS QUADRANGLE—Continued. West along highways and railroads—Continued.

Station.	:	Lati	tude.	I	ong	itude.	Distance between stations.
	•	,	"	-	-,	"	Feet.
Portsmouth, center line of Rodman Avenue and south rail of Atlantic Coast Line R. R. Middle of draw span over West Branch. North edge of road, in front of S. C. Guard's store, opposite T	36 36	50 50		76 76			2, 210 4, 881
road south. Center of culvert, at east edge of road. Churchland, west rail of west track of Atlantic Coast Line R. R.,	36 36	51 51	$03.5 \\ 24.5$	76 76			5,731 3,189
10 feet north of center line of road. Churchland, north of, 1,400 feet east of road crossing, east rail,	36	51	43.7	76	23	36.7	2,904
10 feet north of center line of road. Churchland, north of, 1,400 feet east of road crossing, east rail, opposite east end of platform marked "10½". Center of culvert, about 200 feet northeast of house on farm Edge of road, 7 feet N. 72° 30' W. of, the more western of two	36 36	52 52	22. 6 48. 5	76 76	23 24	45. 1 22. 6	3, 995 4, 021
pine trees in field. North end of footbridge. Craney Island, west base (2), triangulation station, on high- water line of the track, 100 meters from station west base	36 36	53 53	01. 1 27. 0	76 76	24 24	07. 2 10. 0	1,781 2,634
North end of footbridge. Craney Island, west base (2), triangulation station, on high-water line of the track, 100 meters from station west base (Craney Island base). Station marked with a 5-inch terra-cotta pipe, filled with concrete (U. S. Coast and Geodetic Survey station) as found by F. J. McMaugh, U. S. G. S., 1918.	36	53	52. 20°	76	24	16. 21	2,593
South along railroads and highways. (By I	F. J.	Мc	Maugh	in 1	918.)	
Churchland, west rail of west track of Atlantic Coast Line R. R.,	00		40.77	70	00	00 -	1
at road crossing. Thurchland, west rail, at north end of platform	36 36	51 51	43. 7 44. 8	76 76	23 23	36. 7 45. 1	693
Myers station, about 300 feet southwest of, road crossing	36 36	51 51	31.8 08.4	76 76	$\frac{24}{24}$	14.3 57.8	2,717 4,252
Public-road crossing, near north yard-limitsign; platform north- east of crossing, white house southeast	36	50	46. 2	76	25	38.8	4,016
West rail, at point of switch near sawmill	36 36	50 50	33.3 01.4	76 76	26 27	02.6 01.2	2,334 5,762
West rail, at public-road crossing, about 500 feet south of trestle; covered station platform southwest of crossing. shoulder Hill, near northeast corner of freight platform, 23 feet west of west rail of railroad track; iron post stamped "Prim.	36	49	32.5	76	27	54.0	5,188
Trav. Sta. No. 11, 1918''	36 36 36	49 48 48	09. 0 50. 5 55. 5	76 76 76	28 27 26	37.3 09.7 34.0	4,248 7,366 2,948
olliff's Church, east of, road fork northeast. olliff's School, 67 feet S. 63° 31′ E. from front door of; iron post	36	48	38. 8	76	26	09.8	2,591
Peaks siding, south rail, at center of road. olliff's Church, east of, road fork northeast. olliff's Church, east of, road fork northeast. olliff's School, 67 feet S. 63° 31' E. from front door of; iron post stamped "Prim. Trav. Sta. No. 12, 1918''. Road forks southwest and east, 40 feet S. 32° W. of southwest corner of Mansfield's store, 20 feet S. 60° W. of pump and N. 40° W. of blazed pole on east side of road. mail T road north. Bowers Hill, road crossing. Center of bridge over creek. Lenter of bridge over creek, near Indian School. Intersection of highway and Virginian Ry., 93.6 feet northeast of; iron post stamped "Prim. Trav. Sta. No. 13, 1918''	36	48	07.8	76	26	22.7	3,310
W. of blazed pole on east side of road	36 36	47 47	48.3 21.8	76 76	$\frac{26}{25}$	04. 0 16. 0	2,486 4,732
Bowers Hill, road crossing.	36 36	47	10.0	76	24	45.3	2,775
enter of bridge over creek, near Indian School	36	47 46	00. 8 59. 0	76 76	24 24	34. 2 03. 1	1,289 2,540
of; iron post stamped "Prim. Trav. Sta. No. 13, 1918"etoond-class T road east	36 36	46 46	56. 8 35. 0	76 76	23 23	56. 4 23. 8	588 3,449
132. enter of road, at pipe culvert. adkin station, 13 feet east of road crossing, south rail of center	36 36	46 46	22. 4 03. 2	76 76	$^{22}_{21}$	32.6 48.8	4,358 4,060
outh rail of middle track opposite milepost N 10 B 398.	36 36	45 45	49.7 54.8	76 76	21 21	43. 8 13. 0	1,421 2,553
Vadkin station, 1 mile east of, at public-road crossing, 73 feet northeast of south rail of middle track; iron post stamped	36	46	00.8	76	20	40.3	2,729
"Prim. Trav. Sta. No. 14, 1918"outh rail, opposite milepost N 9 B 399, near point of switch, 60			ł			1	
outh rail of north track, at road crossing; elevation painted	36 36		05. 5 12. 4		20 19	08.6 27.4	2,619
outh rail, opposite west end of north wing wall	36	46	16.1	76	19	05.0	3,425 1,865
Vest end of bridge approach, opposite operating house ntersection of Elizabeth River Belt Line and Norfolk & Western Rv., 76 feet southwest of; iron post stamped "Prim. Tray.	36 36	46 46	21. 5 29. 4		18 17	32. 8 45. 1	2,672 3,964
Sta. No. 15, 1918" outh rail of north track, at west end of trestle, at road crossing.	36 36	46 46	32.7 43.5		17 16	21.9 47.6	1,912 3,001
	36	47	07.3	76	16	17.6	3,428
outh rail of north track, at west end of trestle, at road crossingvstreme west rail of most westerly track, at road crossingvest rail, opposite milepost marked "N 4 B 404"outh Norfolk Junction, intersection of Virginian Ry. and Nor-	36	48	04.9	76	16	02.9	5,944

NEWPORT NEWS QUADRANGLE-Continued.

Along Southern Ry. in southwest part of quadrangle. (By H. J. Switzer in 1917-18.)

Station.]	Latitude.			ongi	tude.	Distance between stations.
Shoulder Hill, Prim. Trav. Sta. No. 11, 1918 (described previously). Point of switch at west end of siding Bridge AD 9.9, at east end of, on north rail.	36 36 36	, 49 48 48		76 76 76	28 29 29	37. 28 11. 4 36. 1	Feet. 3, 381 2, 434
Northeast along highways. (By J. J.	Cha	rter	s in 191	8.)			
T road east to residence. Crittenden, in Methodist parsonage lot, 55.8 feet from southeast corner of house, 85.4 feet from northeast corner of church; iron post stamped "Prim. Trav. Sta. No. 2, 1918 C".		•-	29. 8 41. 2			56. 8 54. 5	1,169
PETERSBURG QUADRA	NGI	Æ.		1	•		1
South along highways near east border of quadrang	e.	Ву	J. H. V	Vilse	n ir	1916–1	.7.)
Station.]	Latit	tude.	L	ongi	tude.	Distance between stations.
Prince George courthouse, about 2 miles northeast of, crossroads Road forks, at road northeast. Prince George courthouse, about 2 miles southeast of, 0.25 mile north of Mount Sinai Church, road forks at road northwest. Blackwater Swamp, south end of bridge over. Crossroads, 50 feet east of mail box 54. T road east, a bout 0.5 mile southeast of sawmill, which is a bout 0.25 mile west of road. Milepost N 72 on Norfolk & Western Ry., 150 feet southeast of, second-class road crossing, westbound track. Milepost 71, westbound track	37 37 37 37 37	14 13 12 11 11 10 09		77 77 77 77 77 77 77	15 16 16 16	51. 5 36. 6 35. 7 34. 1 10. 8 19. 9 32. 7 45. 7	Feet. 4,246 7,051 3,156 4,557 6,317 5,063 4,900
Along highways in southeast corner	of q	uad	rangle.				
Jerusalem plank road, at road northeast to Disputanta, just north of Moores Mill Pond. Road northwest at colored schoolhouse. Bridge over creek.	37	00 01 02	43. 7 48. 4 39. 4	77 77 77	15	32. 0 30. 3 02. 6	8, 236 5, 625
Magnetic declination along east border of quadrangle, 2° 30′ W. On highway near southwest corner of quadrang		_					southeast
T road north, 300 feet to unpainted farm buildings	37	00	01.6	77	29	28. 1	Ī

PINEY POINT QUADRANGLE.

West along highways near south border of quadrangle.

Station.		Latitude.			ongi	Distance between stations.	
	۰	,	,,		,	,,	Feet.
T road corners	38	00	00.1	76	34	57.8	(4, 129)
North end of a 350-foot pile bridge over inlet	38	00	27. 1	76		11.6	2,952
T road corners, road northeast to Kensale. Old Bear Corners, forks of road at, 80 feet southwest of front of Mrs. Evan's store, about in line with road westerly and road	38	01	07. 2	76	36	11.0	6, 245
southeast; iron post stamped "Prim. Trav. Sta. No. 15, 1916"	38		14.2	76		29.7	1,653
T road corners, roads north, south and east	38		42.4	76		52.9	7,245
Road forks, road easterly	38	01	17.9	76	38	21.7	3,387
tions	38	01	09.9	76	38	56.9	2,930
Oldham post office, crossroads at	38	00	23. 1	76	39		6,327

PINEY POINT QUADRANGLE-Continued.

Along highways in southwest corner of quadrangle.

Station.	1	Latii	ude.	L	ongi	tude.	Distance between stations.
Road forks, small persimmon tree in center of grass triangle Lyells, 1.25 miles north of, near forks of road, road southwest to Ethel, 12 feet southwest of Lyels-Nomini Grove road, 45 feet	38	, 00	23. 4	76	, 43	42.7	Feet. (3, 349)
southeast of road to Ethel, at edge of woods; iron post stamped "Prim. Trav. Sta. No. 19, 1916"	38	00	41.6	76	44	11.8	2,966

Magnetic declination near south border of quadrangle, 5° 45' W.

PORT ROYAL QUADRANGLE.

Along highways in southeast corner of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
Lloyds post office, T road corners at	38 00 04.9	77 00 40.9	Feet.
	38 00 12.0	77 02 05.3	6,790
	38 00 01.6	77 03 06.3	4,996

Magnetic declination for southeast corner of quadrangle, 4° 50′ W.

RICHMOND QUADRANGLE.

East along highways near north border of quadrangle. (By E. L. McNair in 1916.)

Center of bridge over small stream Road forks, T road southwest. Road forks, in line with road east and road northeast. Nelson's bridge over Pamunkey River, on line between Hanover)	Latii	tude.	L	ongi	tude.	Distance between stations.
	37 37 37	, 44 43 42 42 42	22, 2 21, 0 50, 6 39, 1 54, 0	0 77 77 77 77	, 20 18 17 17	14. 8 25. 9 53. 6 28. 5	Feet. 10, 726 4, 024 2, 327 1, 591
Private T road southeast. Road forks, private road east, about 50 feet northwest of mail box. Second-class road, T road southeast.	37 37 37	44 44 44	03. 9 11. 9 52. 9	77 77 77		11. 9 07. 2 16. 6	9,046 901 4,215

Magnetic declination for north border of quadrangle, 5° 05' W.

Along highways through northeast corner of quadrangle.

Note.—The positions on this line have not been adjusted, as the closing error of 3.24" in longitude is excessive. It is thought that a mistake in measurement of 300 feet may have been made between the position of station 4219, at angle in road, and that of station 4221, at T road south, on the King William sheet. The positions as given for this sheet are based on the adjusted position of station 2931 at road forks.							
Road forks. Road forks, road southwest. Road forks, road southwest. Road forks, road southwest.	37	42	39. 1 26. 7 58. 4 57. 8	77	16	44 0	3,811 5,720 581

SMITHFIELD QUADRANGLE. South along highways through center of quadrangle. (By J. J. Charters in 1918.)

South along nighways through center of quadrangle.	(Dy 0. 0. Charters in 1910.)					
Station.	Latitude.	Longitude.	Distance between stations.			
Smithfield, Main and Commerce streets West abutment of bridge over Peg River Road crossing T road south Benns Church, 153 feet northwest of northwest corner of, at	36 58 58.8 36 58 56.7 36 58 48.7 36 57 01.8	76 37 49.2 76 37 17.5 76 36 43.5 76 35 51.5	Feet. 2,580 2,879 11,598			
corner of church property; iron post stamped "Prim. Trav. Sta. No. 1, 1918 C". Center of road, at junction of T road east. T road south Northeast corner of Whitehead Church property	36 56 15.8 36 55 16.8 36 54 20.1 36 53 08.3	76 35 10.7 76 34 51.2 76 34 38.5 76 34 58.7	5,713 6,171 5,826 7,447			
county line Chuckatuck, 69.2 feet from Pinner's store; nailin stake Junction of T road southwest with Exchange Road Center of road, opposite 8-mile post. T road south through woods. Center of road, opposite 6-mile post Rieds Ferry; iron post stamped "Prim. Trav. Sta. No. 3, 1918 C". Road, opposite mail box T road southwest, opposite three mail boxes. Center of road, opposite mail box T road north	36 52 47.2 36 51 42.0 36 51 07.6 36 50 45.7 36 50 08.1 36 49 13.6 36 48 24.2 36 48 00.1 36 47 15.2 36 46 35.3 36 45 36.0	76 34 55.9 76 34 50.4 76 35 23.2 76 35 29.2 76 35 21.0 76 34 47.0 76 34 34.7 76 34 45.9 76 34 59.8 76 35 15.5	2,144 6,610 4,383 2,272 3,859 6,163 5,088 2,587 5,339 4,340 6,139			
From Chuckatuck northeast along highways	. (Checked sp	our line.)				
Chuckatuck, at store, nail in stake. T road east. T road north. T road southeast, Nansemond River road. Center of road, opposite mail box of T. L. Griffin T road north. Junction of T road. Junction of T road north Hobson post office, center of road opposite.	36 52 03.4 36 52 19.8	76 34 50.4 76 34 04.8 76 33 26.8 76 33 03.2 76 32 18.6 76 32 07.2 76 31 14.0 76 31 05.4 76 30 34.4	3,709 3,845 2,537 4,074 1,478 4,650 2,495 3,540			
Southwest along highways from Chucke	atuck to Winds	sor.				
Chuckatuck, at store, nail in stake. Junction of Exchange-Suffolk road. T road west, opposite two mail boxes. Center of road, opposite negro church Junction of T road to Rieds Ferry. Center of road, opposite drive to Menton farmhouse. Center of drawbridge about 50 feet long. Everett, 38.5 feet from northeast corner of Saunder's house, in northeast corner of yard; iron post stamped "Prim. Trav. Sta. No. 4, 1918 C" County-line monument, at edge of woods and road. Junction of road crossing north and south, northwest of house. T road north, at Griffith's mail box. Center of road, at creek crossing. T road north to farmhouse. Crossroads at store. Center of creek crossing road. Wooden bridge over creek T road north, at Holland's mail box. Windsor, opposite Buck School, center of road. Windsor, in cement base of railroad gate, on west side of track; tablet stamped "Prim. Trav. Sta. No. 8, 1918 C"	36 50 19.4 36 50 19.4 36 50 07.2 36 49 48.7 36 49 33.3 36 49 18.6 36 49 15.4 36 49 12.9	76 34 50.4 76 35 23.6 76 35 40.1 76 35 54.5 76 36 11.6 76 37 10.4 76 37 35.4 76 38 27.5 76 38 27.5 76 38 29.3 76 40 08.1 76 41 37.1 76 42 48.1 76 42 48.1 76 43 35.2 76 44 29.4 76 44 42.5	4,419 1,910 1,712 1,547 4,917 2,061 621 3,787 3,015 3,090 3,480 2,900 1,498 3,526 5,907 3,838 4,431 1,114			
Northwest along Norfolk & Western R	y. and highwa	ys.	1			
Road crossing Myrtle, road crossing at Road crossing Nansemond and Isle of Wight county line Road crossing Road crossing Windsor, Prim. Trav. Sta. No. 8 First culvert beyond colored church Crossroads.	36 45 35.5 36 46 22.7 36 46 56.5 36 47 01.0 36 47 27.5 36 48 03.6 36 48 28.9 36 48 59.8 36 50 10.9	76 40 20.0 76 41 31.4 76 42 22.9 76 42 29.7 76 43 09.8 76 44 04.5 76 44 42.5 76 44 42.8 76 44 50.9	7,520 5,400 721 4,219 5,750 4,015 3,127 7,824			

SMITHFIELD QUADRANGLE—Continued.

Northeast along highways near west border of quadrangle.

Station.	Lati	tude.	Long	gitude.	Distance between stations.
Windsor, 3 miles north of, in C. E. Cair's front yard, 724 feet east of north corner of house, 6 feet from wooden picket fence; iron post stamped "Prim. Trav. Sta. No. 9, 1918 C"	36 51 36 52 36 52 36 52 36 53 36 53	29, 9 58, 9 21, 5 52, 9	76 44 76 44 76 44 76 43 76 43 76 43	11.8 3 42.2 4 00.9 3 55.5	Feet. 5, 611 2, 999 3, 303 2, 335 5, 272 4, 567
Southwest along highwa	ıys.				1
Benns Church, Prim. Trav. Sta. No. 1 Junction of Isle of Wight and Smithfield roads. T road north, center line south of both roads. Center line of road to Isle of Wight T road south, center line south of both roads. Crossroads. T road opposite mail box. Crossroads at Hart's store. East gatepost of Allmond's farm Junction of Bowling Green road Isle of Wight, Prim. Trav. Sta. No. 10	36 55 36 54 36 54 36 54 36 54 36 54 36 54	16. 3 35. 1 01. 8 36. 2 18. 2 06. 5 00. 1 28. 8 40. 6 28. 8	76 33 76 36 76 37 76 37 76 38 76 38 76 46 76 46 76 42 76 42	3 20. 7 7 10. 5 7 28. 4 8 09. 2 8 44. 0 9 33. 9 0 32. 3 0 56. 5 2 13. 0 2 29. 7	5, 688 5, 809 3, 678 4, 204 3, 369 4, 224 4, 793 3, 508 6, 330 1, 809
rangle, 6.3° W.; for south part of quadrangle, 5.5°	W.; f	or wes	t part		
rangle, 6.3° W.; for south part of quadrangle, 5.5° E.6° W.; for southwest part of quadrangle, 5.5° W. Southwest along Southern Ry. (By H. 3) Signpost reading "Railroad crossing 1 mile". Second-class road crossing Intersection of north rail of Southern Ry. and east rail of Atlantic Coast Line R. R. at "Atlantic Coast Line crossing"; a road crossing is 1,000 feet east along track. Beamon, north rail at east end of station. Road crossing, near Wilroy station. Pipe culvert. Road crossing.	W.; f	22: 9 13: 2 53: 7 33: 8 11: 3 50: 6 14: 6 43: 1	t part	0 00.5 0 18.1 0 53.2 2 29.3 2 01.0 2 18.0 2 47.3 3 10.9	3,466 3,561 3,435 2,512 4,348 3,720
rangle, 6.3° W.; for south part of quadrangle, 5.5° E.6° W.; for southwest part of quadrangle, 5.5° W. Southwest along Southern Ry. (By H. 3) Signpost reading "Railroad crossing 1 mile". Second-class road crossing Intersection of north rail of Southern Ry. and east rail of Atlantic Coast Line R. R. at "Atlantic Coast Line crossing"; a road crossing is 1,000 feet east along track. Beamon, north rail at east end of station. Road crossing, near Wilroy station. Pipe culvert. Road crossing.	W.; f Switz 36 48 36 48 36 47 36 47 36 47 36 46 36 46 36 45 36 45	22: 9 13: 2 53: 7 33: 8 11: 3 50: 6 43: 1 00: 6	76 36 36 76 76 76 76 76 76 76 76 76 76 76 76 76	0 00. 5 0 18. 1 0 53. 2 1 29. 3 2 01. 0 2 47. 3 3 10. 9 3 42. 6	3,466 3,561 3,435 2,512 4,348 3,720 5,008
rangle, 6.3° W.; for south part of quadrangle, 5.5° S.6° W.; for southwest part of quadrangle, 5.5° W. Southwest along Southern Ry. (By H. J. Signpost reading "Railroad crossing 1 mile". Second-class road crossing. Intersection of north rail of Southern Ry. and east rail of Atlantic Coast Line R. R. at "Atlantic Coast Line crossing"; a road crossing is 1,000 feet east along track. Beamon, north rail at east end of station. Road crossing, near Wilroy station. Pipe culvert. Road crossing. Northeast end of trestle A D 14-31. Road crossing. Northwest along highways in northwest corner of quadrangle. Concrete culvert (located). T road north. Intersection of narrow-gage railroad and Isle of Wight-Bobs road.	W.; f Switz 36 48 36 47 36 47 36 47 36 46 36 46 36 45 36 45	22: 9 13: 2 53: 7 33: 8 11: 3 50: 6 14: 6 43: 1 00: 6 (By J. 52: 9 11: 7 41: 0	t part (7-18.) 76 3(76 3) 76 3(76 3) 76 3(76 3) 76 3(76 3) 76 3(76 3) 76 3(76 3) 76 4(76 4) 76 4(76 4)	0 00.5 0 18.1 0 53.2 1 29.3 2 01.0 2 18.0 2 47.3 3 10.9 3 42.6	3,466 3,661 3,435 2,512 4,348 3,720 5,008
rangle, 6.3° W.; for south part of quadrangle, 5.5° S.6° W.; for southwest part of quadrangle, 5.5° W. Southwest along Southern Ry. (By H. J. Signpost reading "Railroad crossing 1 mile". Second-class road crossing. Intersection of north rail of Southern Ry. and east rail of Atlantic Coast Line R. R. at "Atlantic Coast Line crossing"; a road crossing is 1,000 feet east along track. Beamon, north rail at east end of station. Road crossing, near Wilroy station. Pipe culvert. Road crossing. Northeast end of trestle A D 14-31. Road crossing. Northwest along highways in northwest corner of quadrangle, 5.5° W.	W.; f Switz 36 48 36 48 36 47 36 47 36 46 36 46 36 45 36 53 36 54 36 53 36 54	22: 9 13: 2 53: 7 33: 8 11: 3 50: 6 14: 6 43: 1 00: 6 (By J. 52: 9 11: 7 41: 0 47: 9	76 33 76 33 76 33 76 33 76 33 76 33 76 33 76 34 76 34 76 44 76 44	0 00.5 0 18.1 0 53.2 2 29.3 2 01.0 2 18.0 2 47.3 3 10.9 3 42.6 rters in	3,466 3,561 3,435 2,512 4,348 3,720 5,008

SOUTH HILL QUADRANGLE.

Southwest along Southern Ry. through northeast quarter of quadrangle. (By J. C. Fales in 1918.)

Station.	Latitude.	Longitude.	Distance between stations.
130-foot trestle, at east end of, south rail. Milepost 106, opposite and 8 feet north of. Overhead road crossing, under west edge of, north rail. Brodnax, on north side of track, on west side of road-crossing at depot; iron post stamped "Prim. Trav. Sta. No. 17, 1918". Road crossing, north rail at. Milepost 110, south rail opposite. La Crosse, intersection of north rail of Southern Ry. and east rail of Seaboard Air Line Ry., at southwest corner of Southern Ry. station. La Crosse, 8 feet north of milepost 111; iron post stamped "Prim. Trav. Sta. No. 18, 1918". Southwest along Seaboard Air Line Ry. through no	36 42 29.6 36 42 13.0 36 42 19.8 36 41 47.6 36 41 38.7 36 41 48.7 36 41 48.9	78 00 17.5 78 00 46.3 78 01 15.7 78 01 57.8 78 03 21.0 78 04 35.0 78 05 37.4 78 05 38.0	Feet. 7, 888 2, 920 3, 492 7, 517 6, 097 5, 181 48
	1	1	1
Steel trestle, at south end of, east rail. Overhead road crossing, west rail under north edge of	36 43 17.6 36 42 33.5	78 03 35.1 78 04 23.0 78 04 51.2 78 05 22.7 78 05 37.4	7, 155 3, 482 5, 142 4, 684
Along highways. (By J. C. Fales	in 1918.)	•	
Crichton post office, north edge of road, opposite front door of J. R. Temple's store. T road to Brodnax. South end of timber highway bridge 40 by 18 feet, having railing both sides. Prim. Trav. Sta. No. 17, 1918 (previously described)	36 40 29.5 36 41 09.6	78 00 47.2 78 01 31.1 78 01 49.2 78 01 57.77	3,799 4,314 7,130
SUFFOLK QUADRANC	LE.		
South on highways in northeast part of quadrangle.	(By J. J. Cha	rters in 1918.)	
Station.	Latitude.	Longitude.	Distance between stations.
One-mile post	l	0 , , ,, 76 35 01.2 76 34 58.4	Fect. 3,740
West on Virginian Ry, near north borde	r of quadrangle	e.	<u>'</u>
Road crossing. East end of wooden bridge No. 2 over narrow-gage railroad Wooden bridge over tracks. Norfolk & Western Ry. span bridge over tracks of Virginian Ry. Opposite milepost N 27, near switch on north. Kenyon, 50 feet south of station; iron post stamped "Prim. Trav. Sta. No. 5, 1918 C." Elevation 72 feet. Road crossing. Bridge over deep cut, east end of. Road crossing. Road crossing. Road crossing. Road crossing.	36 44 03.1 36 44 00.1 36 43 52.6 36 43 51.1 36 43 54.9 36 43 59.8	76 35 47. 2 76 36 22. 8 76 37 27 6 76 37 41. 6 76 38 37. 4 76 39 20. 4 76 39 45. 3 76 41 05. 1 76 42 46. 0 76 44 00. 2 76 44 48. 6	4, 198 2, 913 5, 330 1, 144 4, 568 3, 536 2, 058 6, 580 8, 318 6, 122 3, 990
Northwest on Norfolk & Western Ry. near nort	h border of qua	adrangle.	
Span bridge over tracks of Virginian Ry. Block signal, concrete base marked "U. S. P. B. M" Road crossing, King road.	36 43 51.1 36 44 25.2 36 44 54.4	76 37 41.6 76 38 33.4 76 39 17.8	5,454 4,666

SUFFOLK QUADRANGLE—Continued.

Along Southern Ry. near Suffolk. (By H. J. Switzer in 1917-18.)

Station.	Station. Latitude.		tude.]	iong	itude.	Distance between stations.
Suffolk, 1 mile east of, north rail of Southern Ry. at overhead crossing of east track of Virginian Ry. Road crossing, near yard-limit sign. Suffolk, Main Street crossing. Suffolk, Prim. Trav. Sta. No. 5, 1918 (previously described)	. 1 36		01.6	76 76 76 76	34 34	31.4 55.8	Feet. 3,631 2,036 1,521
North along Norfolk Southern R. R. (By	J. J	г . Р і	helan i	n 191	l 8.)		
North Carolina and Virginia State line, brass plate in granite monument on county road (Prim. Trav. Sta. No. 3). Crossing of Suffolk highway. Road crossing, 877 feet south of milepost 12, west rail. Milepost 11, west rail. Point on north abutment of short low bridge across swamp. Cypress road crossing, 775 feet north of station. Point on north abutment of bridge across swamp. Saunders, 56 feet north of station, at road crossing. Road crossing at stone mill. Road crossing. Crismond flag station, road crossing at, east rail. Milepost 5 miles to Suffolk, east rail. Russell flag station, road crossing and blind side track at. Road crossing, west rail. Road crossing, west rail. Road crossing, west rail. Suffolk, northeast corner of intersection of Madison and Main streets, at stone crosswalk. Suffolk, in ortheast corner of intersection of Buck and Main streets. Suffolk, in yard of courthouse, at southwest corner of County Clerk's office; iron post stamped "Prim. Trav. Sta. No. 5 P, 1918".	36 36 36 36 36 36 36 36 36 36 36 36 36	33 33 34 35 37 37 38 38 38 39 40 41 41 42 43 43	02. 9 16. 0 07. 8 08. 6 41. 6 02. 7 26. 3 15. 9 35. 0 11. 2 43. 2 19. 8 52. 8 52. 8 52. 8 21. 3 27. 2 46. 8	76 76 76 76 76 76 76 76 76 76 76 76 76 7	34 34 34 34 34 34 35 35 35 34 34	33. 2 38. 4 42. 7 45. 3 46. 4 43. 9 43. 1 45. 7 48. 1 50. 7	1,322 5,253 6,160 3,346 8,205 5,011 1,949 1,722 1,960 3,256 3,801 5,140 4,368 6,358 3,045 2,100 2,029
Northwest along highway	7S.			<u>' </u>			'
Saunders, road crossing.	36	38	15.9	76	34	43.1	[
Saunders, in southwest corner of field, across from general store; iron post stamped "Prim. Trav. Sta. No. 2, 1918". On branch road west to Nurney, 40 feet west of center of Corapeake road. Center of crossroads.	36 36 36	38 38 38	17.4 06.0 14.7	76 76 76	34 35 36	45.9 01.1 40.4	280 1,691 8,145
Southwest along Atlantic Coast	Line	R.	R.	<u> </u>			1
Nurney, at station, 2.5 feet from north rail of road crossing of Atlantic Coast Line R. R., on main track; iron post stamped "Prim. Trav. Sta. No. 4 P, 1918" Road crossing, northwest rail Northeast end of bridge 86, northwest rail. Culvert 87, northwest rail Harrell siding, road crossing, northwest rail Milepost 29, northwest rail opposite. Road crossing, northwest rail Road crossing, northwest rail Road crossing, northwest rail Road crossing, northwest rail Road crossing, northwest rail Road crossing, northwest rail Road crossing, northwest rail Road crossing, northwest rail	36 36 36 36 36 36 36 36 36 36 36 36	38 38 38 37 37 36 35 35 34 34 33	32.6 15.4 01.8 35.9 04.4 31.7 53.4 30.5 06.4 45.5 33.2 55.9	76 76 76 76 76 76 76 76 76 76	36 37 37 37 38 39 39 40 41 41 41	50. 2 09. 2 24. 4 53. 2 28. 3 04. 6 47. 3 12. 7 39. 4 50. 2 7 16. 4 57. 8	1,962 2,322 1,855 3,518 4,287 4,439 5,212 3,273 2,842 1,671 1,671

Magnetic declination for northwest part of quadrangle, 5.5° W.

SUFFOLK QUADRANGLE-Continued.

Southwest along Southern Ry. (By J. J. Phelan in 1918.)

Station.	Latitude.			L	ongi	tude.	Distance between stations.
Suffolk, crossing of Madison Street. Suffolk, junction of Atlantic Coast Line and Southern railroads, center line of Southern Ry. and east rail of Atlantic Coast Line R. R. Road crossing, north rail Road crossing, north rail Road crossing, north rail Road crossing, north rail Road crossing, north rail Road crossing, north rail Road crossing, north rail Road crossing Manning station, road crossing. East end of bridge A. D. 20.3 over swamp Road crossing Manning station, road crossing. East end of bridge, north rail Road crossing, south rail Road crossing, south rail Road crossing, south rail Road crossing, 24 feet west of milepost 25, south rail Road crossing, south rail East end of bridge, south rail Road crossing, south rail Road crossing, 3010 feet east of east end of bridge, south rail	36 36 36 36 36 36 36 36 36 36 36	42 42 42 41 41	24.7	76 76 76 76 76 76 76 76 76 76 76 76 76 7	34 34 35 35 36 36 37 37 38 39 40 41 42 42 43 44	38. 5 54. 2 09. 7 28. 6 17. 3 42. 3 42. 3 42. 3 57. 6 03. 0 25. 4 54. 3 54. 3 56. 5 59. 8 44. 5	300 1, 817 1, 347 1, 657 4, 251 2, 181 2, 333 2, 832 5, 921 2, 617 2, 957 1, 886 7, 480 1, 025 4, 490 3, 711 3, 912
North along highways near west bord	er o	f qu	adrang	de.			
T road north to Buckhorn Center of culvert under road, east of T road north Buckhorn post office, at Purvis station, on Seaboard Air Line Ry, at crossing, north rail North edge of road, 40 feet east of dilapidated negro dwelling Boaz, 220 feet east of milepost 33, center of plank road crossing	36 36	41 42 43 44 44		76 76 76 76 76		52. 7 39. 5 10. 6 38. 6 48. 6	4,575 7,119 4,624 3,882

Magnetic declination for northwest corner of quadrangle, 5.5° W.

SURRY QUADRANGLE.

On highways in north part of quadrangle. (By J. H. Wilson in 1916.)

Station.	Latitude.		L	ongi	tude.	Distance between stations.	
Powhatan Creek, center of wooden bridge over. Nightingale's farm, gate in road leading into. Chickahominy (2) triangulation station, situated on a sandy point forming the southeast side of mouth of Chickahominy River at its junction with James River. Farm on which the station is located is called "Piney Grove." The old station of 1870 is now about 100 feet outside of high-water mark. Search was made for it at low water, but nothing could be found. The station of 1910 is marked by a block of cement 5 inches square and 8 inches high with nail in center buried 3.5 feet deep. Over this was placed a 1910 cement monument, which projects 1 inch above ground. Three inches of sand separate the two cement marks.	37 37 37	14	56. 7 54. 1 30. 91	76	51	22. 0 29. 8	Feet. 4, 393

Magnetic declination for north part of quadrangle, 4° 55′ W.

Northwest along highways in south part of quadrangle. (By J. J. Charters in 1918.)

Intersection of road bed of Surry Lumber Co.'s railroad and road. T road east to farmhouse Walls Bridge, west end of. Walls Bridge post office, 75 feet east of forks of road, in southwest corner of front yard of Mrs. Mollie Wilkinson just north of north	37 37	00 01	50. 6 26. 4	76 76	52 52	36. 2	4,918 3,742
end of bridge over Blackwater Swamp; iron post stamped "Prim. Trav. Sta. No. 182" (Bull. 245, p. 146)	37	01	32.4	76	52	2 8. 2	895

VIRGINIA.

SURRY QUADRANGLE—Continued.

Northeast along highways in southeast corner of quadrangle.

Station.	Latitude.		Longitude.			Distance between stations.	
Milepost 9, opposite center of Smithfield-Ivor road	37 37	, 00 00	09.3 48.6	6 76 76	, 46 45	19.3 56.6	Fect. 4,382
Bobs, 25 feet north of road, old iron post stamped "Prim. Trav. Sta. No. 242, 1905". Bobs; iron post stamped "Prim. Trav. Sta. No. —, 1917." Elevation 89 feet.	37 37	01 01	08. 2 13. 3	76 76	45 45	39. 7 34. 7	2,410 653

Along highways and Surry, Sussex & Southampton Ry. from southwest corner to northeast corner of quadrangle. (By Olinus Smith in 1917.)

				,			
Crossroads, in southeast corner of; iron post stamped "Prim.	_						1
Trav. Sta. No. 132"	37	00		76	59		
Center of road at creek crossing	37	01	13.0	76	58	42.2	5,326
Blackwater River, main channel of, center of truss bridge over	37	01	34, 2	76	52	43.3	5, 234
Dendron, road crossing south of	37	02	27.3	76	56	26.0	8, 252
Dendron station, center of track opposite.	37	02	45, 5	76		52, 5	3,286
Sexton post office, road crossing at	37		20.7	76	55		4,934
Sexton, 1 mile north of, 10 feet south of center of farm road, in	١٠.	•••	-0	1	-	20.0	1,001
west bank of railroad; iron post stamped "Prim. Trav. Sta.	i			1			ĺ
	37	03	55.2	76	5.4	12.1	5,863
No. 1, 1917". Elberon station, road crossing at.		04	33.3	76		10.6	
Dard an aris a grand clossing at	1 84						6,305
Road crossing, second class	37	05	20.4	76		22.0	6, 175
Moorings station, switch post at, center of track	37	05	56. 1	76		45. 2	4,681
Road crossing, second class	37	06	57. 2	76	50	55.0	7,398
Surry station, 1,800 feet south of, in railroad Y, 50 feet east of	l			j]
main track; iron post stamped "Prim. Trav. Sta. No. 2, 1917".	37	07	59. 0	76	50		7,461
Road crossing, second class	37	08	42.5	76	49	42.1	4,769
Road crossing	37	10	05.4	76 -	48	12.4	11,088
Crouch Creek, center of highway bridge over	37	10	36. 4	76	46	56.0	6,939
Jones triangulation station; recovered the old station mark 14							,,
feet back from edge of bluff and 2 feet below surface. Placed over it a cement monument, which projects 4 inches above the							
surface	37	10	08.946	76	45	51, 759	5, 895
Jamestown monument	37	12	31.48	76	46	39, 90	14, 933
				-			, , , , ,

Magnetic declination diagonally through quadrangle from southwest to northeast, $\mathbf{4}^{\circ}$ 50′ W.

TAPPAHANNOCK QUADRANGLE.

South along highways near east border of quadrangle. (By E. L. McNair in 1916.)

South along highways near east border of quadrang	gle.	(B	y E. L	Mc	Nai	r in 191	.6.)			
Station.	Latitude.			Station. Latitude. Longitude.						
Forks of road 2,000 feet north of Warsaw, road northwest to Ethel, road north to Lyell Warsaw, in courthouse yard, 3 feet south of center of cement	37	, 57	48.6	° 76	, 45	" 19. 4	Fect. (7, 092)			
wall, about opposite post office and in line of street north; iron poststamped "Prim. Trav. Sta. No. 16, 1916"	37 37 37	57 55 54			45 45 45	27. 4 00. 2 43. 8	1,998 (6,692) 5,243			
foot south of southeast corner of porch of house of A. W. Velano; iron poststamped "Prim. Trav. Sta. No. 17, 1916"	37	53	16.3	76	45	51.8	5,009			
Along highways near north border of qua	dra	ngle	(east	half).					
T road corners southeast of Ethel post office. T road west at Ethel post office. Mount Airy mill, center of bridge over mill race. Wooden draw-span bridge across Cat Point Creek, center of	37 37 37 37	59 59 58 59	38. 3 47. 4 59. 1 02. 3	76 76 76 76		39. 6 51. 1 52. 5 35. 9	1,297 6,931 3,488			

TAPPAHANNOCK QUADRANGLE—Continued. South along highways through center of north half of quadrangle.

Station.	Latitude.			Station. Latitude. Lon				ongi	tude.	Distance between stations.
Center of road, in line with road west	37 37 37 37 37	, 59 58 57 57	.52. 3 28. 7 54. 2 43. 9	76 76 76 76 76		20. 1 14. 8 12. 0 04. 3	Feet. (2, 559) 8, 471 6, 116 1, 212			
East along highways through center of north	east	qu:	arter o	f qu	adra	angle.				
Road forks, road southwest to Tappahannock Ferry, road west to Naylors. Crossroads, approximately in line with roads in each direction. Road forks. Prim. Trav. Sta. No. 16, at Warsaw.	37	57 58 57 57	57. 4 06. 0 55. 3 29. 9	76 76 76 76		49. 4 02. 8 09. 2 27. 4	1, 811 8, 585 4, 423 8, 550			

Magnetic declination near west border of quadrangle, 6° 10′ W.; along north border of quadrangle, 6° 10′ W.; through center of north half of quadrangle, 6° 06′ W.; east through center of northeast quarter of quadrangle, 6° 13′ W.

Along highways through east half of quadrangle from northwest to southeast.

Pappahannock Ferry, 800 feet N. 33° E. from ferry wharf on east side of river, 25 feet east of center of road, small cedar tree in wire-fence line; copper nail in root, not marked							
wire-fence line; copper nail in root, not marked Outer end of Tappahannock wharf, on center line about 750 feet	37	57	00.5	76	50	43. 4	5,399
from shore.	37	55	53.4	76	51	16.1	7,278
Cappahannock Courthouse, in front of soldiers' monument, center of Main Street	37	55	42.0	76	51	36. 5	2,00
Ioskins Creek, center of bridge over	37	55	02.8	76		32. 4	3, 97
road west to Walkerton. Forks of road at cut-off, old road runs N. 40° W.	37	53	41.6	76	52	21.1	9,09
Forks of road at cut-off, old road runs N. 40° W	37	52	57.9	76		57.6	4,804
rivate road southeast	37	52	47.8			42. 2	1,60
iscataway Creek, center of draw bridge over	37	52	14.6			52. 1	5, 239
road southwest. Dunnsville post office, 130 feet northwest of, 170 feet northwest	37	51	49.0	76	50	11.5	4, 15
of T road southeast and in line with T road southwest, 15 feet				1			
northwest of gate and 1 foot west of fence line, 20 feet northeast				İ			
of center of road; iron post stamped "P. T. S. No. 21, 1916"	37	51	33.8	76	49	21.3	4,31
crossroads	37	51	03. 2	76		26.0	5, 40
Road northwest	37	50	37.8	76		09. 9	2,87
Ozeana, forks of road at road northeast	37	49	35.0	76		06.4	6,35
road east		49	04. 4	76		50.7	3,34
Road west	37	48	26.8	76		33.5	4,04
Center of crossroads	37	48	17.7	76		45. 2	3,97
Forks of road	37	48 47	08.0	76 76			3,63
Road southeast	31	41	13.9	10	40	07.8	6,97
point)	37	46	11.1	76	45	03.9	6,35
point)	٠.	10	11. 1	١.,	10	00.0	0,00

Along highways in southeast corner of quadrangle.

——————————————————————————————————————							
Privateroad southwest to Dr. Hundley's residence				76 76	46 46	06.0	(6, 059) 2, 333 1, 615
T road north to Center Cross.						48.9	1 615
Center of creek, at Birds Bridge, on line between Essex County		31	00.0	10	70	10, 0	1,010
and King and Queen County	37	46	18.8	76	47	23.7	5,085
Increase office and store, 100 feet north of, 130 feet N, 62° W, from				ł			, 0,000
forks of road in front of store; copper nail in root of white-oak							1
forks of road in front of store; copper nail in root of white-oak tree, painted "U.S.B. M. 15"	37	45	45, 5	76	47	54.8	4, 194
,	1						,

Magnetic declination for east half of quadrangle, 6° 00' W.; for southeast corner of quadrangle, 5° 43' W.

TAPPAHANNOCK QUADRANGLE—Continued.

East along highways near south border of quadrangle.

Station.		Latitude.			ongi	Distance between stations.	
T road west, about 0.25 mile north of Greenwood store	° 37	, 45	13. 2	° 76	, 59	36.6	Feet.
Trav. Sta. No. 24, 1916" Contra post office and store, crossroads at. Road forks, private road southeast. Forks of road, road north Forks of road, road south	37	45 45 46 46	20. 6 38. 8 52. 6 21. 1 56. 8	76 76 76 76 76	59 50 50 50 49	26. 7 41. 5 34. 1 07. 6 06. 8	1,087 1,510 3,580 5,471

Magnetic declination along south border of quadrangle, 5° 50′ W.

North along highways near west border of quadrangle, south half.

Prim. Trav. Sta. No. 24. Bruington post office and store, center of road opposite.	37	45 46 46	20.6 23.4 49.1	76 76 76	59 59 59	26.7 30.2 29.4	6,359 2,597
T road east. Small creek, ford of. Road forks. Center of bridge over small creek.	37 37	47 48 48	37. 2 16. 0 25. 4	76 76 76 76	59 58		5,274 4,154 1,710
T road south near St. Pauls Church	37	49	43.1	76		08. 2	8,036
poststamped "Prim. Trav. Sta. No. 33, 1916"	37 37	50 51 52 52	22. 4 54. 9 31. 7 41. 8	76 76 76 76	58	58. 9 40. 7 02. 2 49. 9	5,680 9,463 4,840 1,420
Dunbrooke post office and store, T road west at Prim. Trav. Sta. No. 27, 0.75 mile west of Dunbrooke T road south.	37 37	53	39. 1 56. 8 51. 1	76 76 76	57 58	51. 5 39. 1 51. 4	5,785

Magnetic declination along west border of south half of quadrangle, 7° 00′ W.

Along highways from about center to the northwest corner of quadrangle.

Tappahannock, soldiers' monument at	37	55	41.95	76	51	36.53	
T road corners	37	55	15. 9	76	52	36.7	5,494
T road corners. Road forks, wood road coming into main road at top of hill	37	55	37. 2	76	53	34.9	5,135
Road forks, road south	37	56	18.6	76	54	36. 9	6,503
T road north	37	56	23.8	76	55	18.0	3,332
Mount Landing post office, road forks at	37	56	35.7	76	55	32.3	1,662
Upper Mount Landing, T road north at	37	56	50.4	76	56	19. 2	4,041
Center of bridge over small creek	37	57	44.4	76		12.0	5,500
Center of bridge over small creek	37	58	08. 7	76		20.8	2,557
Road forks, road north Caret post office, opposite Crutchfield store, in center of triangle at forks of road; copper nail in root of red-oak tree, painted	37	58	53. 5		57		5,951
Caret post office, opposite Crutchfields store, in center of triangle							.,
at forks of road; copper nail in root of red-oak tree, painted							
"U. S. B. M. 18"	37	58	57.4	76	57	43.6	2,786
Road forks, road south		58	42.9	76	58	10. 3	2,598
T road corners, roads north, south, and east	37	58	45. 4	76		20. 1	5,592
T road corners, roads north, south, and east	37	59	14.3	76	59	33. 9	3,120
,							-,

Along highways near west border of quadrangle.

Rexburg post office, well about 125 feet north of	37 37	56 55	11.6 12.2	76 76	59 58	13. 1 58. 9	6,122
Sittati creek, center of bridge over	31	00	12, 2	10	00	00. 0	0,122

121166°—23—Bull. 709——32

TAPPAHANNOCK QUADRANGLE—Continued. East along highways through center of quadrangle.

Station.	Latitude.				Latitude. Longitude				tude.	Distance between stations.
Dunbrooke, 0.6 mile northwest of, 30 feet south of main east-west road, 10 feet west of a byroad north through farms to Rexburg, 3 feet west of an old gatepost, across road from residence of E. E. Smith; iron poststamped "Prim. Trav. Sta. No. 27, 1916". Dunbrooke post office and store, T road at. Crossroads. T road south. Road east. Road forks, at east end of grassy triangle. Road forks. Small creek, center of small wooden bridge over. T road east at Pauls Crossroads; a T road west is about 25 feet south. T road north. Road forks, in front of store, in line with roads. Essex Mill, center of bridge over mill race. Prim. Trav. Sta. No. 21, 1916.	37 37 37 37 37 37 37 37 37 37 37	53 53 54 54 54 53 53 52 52 52 51 51	39. 1 01. 3 17. 5 05. 3 25. 8 07. 3 37. 5	76 76 76 76 76 76 76 76 76 76 76	58 57 57 56 55 54 54 53 53 52 51	48. 5 53. 9 00. 2 49. 8 53. 2 51. 0	Feet. 7,788 4,220 3,452 4,280 3,502 5,924 4,701 3,119 2,636 6,371 5,741 6,460			

TOANO QUADRANGLE.

East along highways near north border of quadrangle.

Station.		Latitude.		L	ongi	Distance between stations.	
Slaterville (Dash post office), Troad northeast to Plum Point Road forks. Plum Point, southwest of, on back road to New Kent Courthouse, 5.25 miles east of Slaterville (Dash post office), at crossroads in woods, 18 feet south of intersection of roads; iron post stamped	37 37	, 29 29	57. 5 54. 8	76 76	56 55	32. 7 26. 8	Feet.
"Prim Trav. Sta. No. 49, 1916". T road northeast. T road northwest.	37 37 37	29 29 29	54. 8 40. 4 14. 9	76 76 76	51 51 50		3,720 4,298

Magnetic declination along north border of quadrangle, 5° 00′ W.

South along highways and Chesapeake & Ohio Ry. near east border of quadrangle. (By J. H. Wilson in 1916.)

T road southeast			34.9				
Crossroads				76		56.1	2 400
			00.4	76		58.1	3,498 3,017
			36.3			20.2	3,017
			45.0			21.9	7,184
Barhamsville, sign post at road forks			13.0			29.3	3,291
			18.9°			09.2	5,712
			24.3			34.5	6,190
	37 2	4	30.8	76	49	11.3	5,730
Toano, road bridge over Chesapeake & Ohio Ry., 5 feet south of			- 1				1
southeast corner of, at foot of telephone pole; iron post stamped			- 1				1
			04.9	76		20.4	9,606
Milepost 46, center of east-bound track			47.6			16.7	5,434
Overhead wagon bridge, center of west-bound track under 3			40.2			34.4	3,495
			08.9			08.4	3,802
	37 2	21	10.4	76	45	42.8	6,260
Lightfoot, opposite office window of depot, center of east-bound							1 '
		20	36.3	76	45	19.4	3,936
	37 1	.6	12.4	76	45	18.9	
Five Forks, on embankment at south edge of road forks, at							1
northeast corner of yard of Junction High School; iron post			- 1				1
	37 1	.5	11.0	76	45	57.9	6,962

West along highways near south border of quadrangle.

Troad north, 360 feet east of Troad south. Wooden bridge over small creek, center of	37	15 15	12.9 18.6	76 76	47 48	58.3 46.2	3,916
Nightingale's mail box; iron post stamped "Prim. Trav. Sta. No. 52, 1916"	37	15	15.5	76	50	31.1	8,484

VIRGINIA.

TOANO QUADRANGLE—Continued. West along Chesapeake & Ohio Ry. through center of quadrangle.

Station.	Latitude.			L	ongi	tude.	Distance between stations.
Road crossing, 480 feet east of milepost 48, west-bound track. Branch Siding, road crossing at, west-bound track. Diascund, road crossing just east of depot, west-bound track. Diascund Creek, center of railroad bridge 525 over, west-bound track. Lanexa, 60 feet east of southeast corner of depot, on south side of tracks, at west end of wire fence; iron post stamped "Prim. Trav. Sta. 53, 1916. Elov. 24 feet." Walker, road crossing at depot, west-bound track. Road crossing, about 850 feet west of milepost 57, west-bound track. Windsor Shades, in front of office window of depot, west-bound track.	37	24 24 25	40.5 21.7 06.6 39.9 17.2 16.2 56.8 31.7	76 76 76 76 76 76 76 76 76	50 52 53	41. 4 25. 2 09. 6	5,070 3,342 7,998 7,775 5,053 9,327 9,129 4,085
Along highways near west border of	qua	dra	ngle.				
Road forks, center of triangle at	37 37 37	20 20 19	45. 4 13. 0 32. 2	76 76 76	59 59 59	38.3 33.0 53.8	3,304 4,464
onal sewer pipe with 2-inch iron pipe and point of spike within, all standing 2 inches above the surface	37	18	25.88	77	00	24.20	7,139

Magnetic declination for east border of quadrangle, 5° 09′ W.; for south border of quadrangle, 5° 04′ W.

URBANNA QUADRANGLE.

Northwest along highways. (By E. L. MacNair in 1916.)

Station.	Latitude.		L	ongi	tude.	Distance between stations.	
Ebenezer Baptist Church, at forks of road, at southeast corner of foundation of church; bronze tablet stamped "Prim. Trav. Sta. No. 173A". Harper's store, 25 feet southeast of southeast corner of, center of road. Olive Branch M. E. Church, center of road opposite. Olive Branch M. E. Church, 0.75 mile northeast of, T road east. T road corners, 15 feet southeast to mail box. Small creek, center of bridge over. Freeport store, 700 feet southwest of, 300 feet south of residence of R. H. Fairholt, just inside of yard fence, in line with road.	37 37 37 37 37 37 37	29 30 30 30 31 31	57. 4 13. 8 26. 2 37. 0 10. 2 46. 9	76 76 76 76 76 76 76	31 31 31 30 30 30	50. 6 26. 9 11. 1 36. 1 18. 5 43. 9	Feet. 1,788 3,027 3,642 4,240
southwest, near landleading to barn; iron poststamped "Prim. Trav. Sta. No. 1, 1916" Freeport, nail in plank on wharf, 20 feet west diagonally from outermost corner. Healys Mill, center of bridge over mill race. Healy post office and store, T road at, 12 feet northeast to poplar tree.	37 37 37 37	32 32 33 34	23. 0 24. 0 52. 6 21. 6	76 76 76 76		27. 2 12. 7 09. 2 43. 3	3,898 1,166 4,019
Locust Hill post office and store, 0.5 mile east of, 170 feet south and 64 feet west from fence corner of the Rappahannock school building; iron post stamped "Prim. Trav. Sta. No. 2, 1916". T road corners. Locust Hill post office and store, center of road opposite. Christ P. E. Church, center of front door. Urbanna, 2 miles southeast of, 18 feet west of center of Urbanna Saluda road in line with easterly road to Harmony in front	37 37 37 37 37	35 36 36 36	59. 8 05. 4 05. 7 35. 1	76 76 76 76	31	47. 2 03. 1 11. 3 48. 1	9, 935 1, 406 660 8, 338
Saluda road, in line with easterly road to Harmony, in front of old store building; iron post stamped "Prim. Trav. Sta. No. 3, 1916" Rosegillfarm, opposite entrance to, center of road. Urbanna, center of drawbridge across Urbanna Creek at. Urbanna, R. S. Bristow's store, T road near. T road southwest, on main road from Urbanna to Church View. T road northeasterly (second class).	37 37 37	36 37 37 38 38 38	05. 0 26. 1 55. 2 11. 6 18. 4 33. 0	76 76 76 76 76 76 76	34	59. 0 07. 2 19. 9 30. 0 16. 7 45. 3	6, 468 8, 233 3, 112 1, 854 3, 823 2, 735

URBANNA QUADRANGLE—Continued. Northwest along highways—Continued.

Station.	Latitude.			L	ongi	tude.	Distance between stations.
Pine Tree store, 150 feet east of, 10 feet southwest of center of road, in root of gum tree which has signboard marked "Urbanna and Church View;" copper nail and washer, tree painted "U.S. B. M. 2". T road south (second class). T road north. Warner post office and store, 2.5 feet east of corner of platform in front of, 22 feet north of gum tree near road; iron post stamped "Prim. Trav. Sta. No. 4, 1916". Oak tree at road forks, in triangle of three roads. Forks, 15 feet south of east and westroad, in line of road about south. T road corners, road north to Church View, driveway south to private house, east and westroad between Warner and Mascot. Forks of road, 20 feet northeast of cedar tree. Driveway north to farmhouse, center of road opposite. Negro church, center of road in front of. East side of road at angle, opposite lane north to house, in root of large white-oak tree; copper nail and washer, painted "U. S. B. M. 4". Road forks. Road forks. Road forks, east to Mascot and south to Elsom, in root of small white-oak tree; copper nail. Mascot post office and store, 0.6 mile southwest of, 15 feet south	37 37 37 37 37 37 37 37 37 37 37 37	38 38, 38, 34, 35, 35, 36, 36, 36,	20.2	76 76 76 76 76 76 76	37 37 38 39 40 40 44 44 43 43 43	41. 2 58. 1 43. 2 13. 8 04. 4 45. 3 05. 9	Feet. 5,088 5,700 1,473 4,303 2,914 4,302 2,775 6,624 2,268 2,554 1,080 3,134 2,552
of road, in front of Tureman's house, in root of cedar tree; copper nail, painted "U. S. B. M. 6". Mascot post office and store, at west end of platform, 1.5 feet from	37	37	16.5	76	42	54.2	6,338
corner of store, 30 feet north of crossroads; iron post stamped "Prim. Trav. Sta. No. 5, 1916". Piankatank River, east end of bridge across	37 37	37 38	38.0 01.3	76 76	42 41	26. 2 44. 9	3,133 4,074

Magnetic declination for south half of east side of quadrangle, 5° 59′ W.; east and west through middle of quadrangle, 5° 36′ W.; for south half of west side of quadrangle, 5° 24′ W.

West along highways on north border of quadrangle. (Checked spur line.)

Whites Chapel (brick church), T road corners at							(3,885) 1,098
smooth grass plat, 140 feet west of end of wharf; iron post stamped "Prim. Trav. Sta. No. 10, 1916"	37	44	07.5	76	34	06.7	5,882

Magnetic declination along west border of quadrangle, 5° 40' W.

Southwest along highways in northwest quarter of quadrangle.

Temporary bench mark 14, forks of roads, about 40 feet south and 20 feet east of, in triangle formed by roads; copper nail in root of white-oak tree, painted "U.S. B. M. 14"	37 37	44 43	16. 5 49. 5	76 76	40 40	12. 9 49. 8	(4,689) 4,030
Crossroads, in line with road southeast	37	43	18.3		43	09. 9	(947)
Crossroads, road southwest through gate; second-class road southeast through woods	37		22.6	76	42	50. 2	(5, 848) 8, 759
Road forks, road east.	. 37	41	03.1	76	43	33.5	8,759
Piscataway Creek, center of Wares bridge across, on Middlesex County and King and Queen County line	37	41	01.4	76	43	36.8	314

Along highways southeast through northwest quarter of quadrangle.

T road west T road southwest to Dragonville (tie point) Forks of road near colored church, road about west Jamaica post office and store, T road corner 100 feet north of	37 37	43	27.7	76	43	11.1	(6, 182) 5, 839 2, 502
(tie point). Road southwest. Crossroads, in line with road northeast to Waterview	37 37	42	22.4	176	41	15, 5	6,721 3,786 4,946

VIRGINIA.

URBANNA QUADRANGLE-Continued.

Along highways southeast through northwest quarter of quadrangle-Continued.

Station.]	Latitude.			ongi	tude.	Distance between stations.
Church View, T road at, 200 feet east of new store	37	40	40. 4 27. 5 18. 6	76 76 76	40	45. 8 17. 0 01. 4	Feet. 5,733 1,552
between the two trees, painted "U. S. B. M. 7". Lagrange Mill, center of bridge over spillway outlet of dam,	37	40	14.6	76	39	19.8	3,364
120 feet east of Streets post office and store, T road northeasterly. T road northeast.	37 37 39		52. 4 38. 2 17. 6	76 76 76	38 37 36	25, 5 08, 8 50, 6	4,913 6,330 2,553
Along highways near west border o	f qu	adr	angle.				
Road forks, at north end of triangle formed by roads	37 37		11.9 42.8	76 76		17.3 54.7	5,342 3,459
in line with road southwest to Little Plymouth and road north to Coldwater	37	39	16.3	76	44	04.5	2,782
Crossroads, second-class roads northeast and southwest through fields. Velma store and post office, 40 feet southeast of, 20 feet west of	37	38	58.5	76	43	13.0	4,515
road, on root of white-oak tree; copper nail and washer, tree painted ''U. S. N. M. 16''. Road forks, road west to Shanghai. Road crossing, private roads east and west to farm houses	37 37 37	38 38 37	46. 7 23. 3 56. 6		42 43 42	46. 7 08. 5 49. 7	2,423 2,948 3,090

Magnetic declination for northwest quarter of quadrangle, 5° 33′ W.; for west border of quadrangle, 5° 35′ W.

VIRGINIA BEACH QUADRANGLE. East along highways and north along electric road. (By F. J. McMaugh in 1917.)

Station.	Latitude.			Latitude. Longitude.					tude.	Distance between stations.
Fork in road, 55 feet east of small bridge over ditch. Culvert, marked Sta. 413 + 828. Center of road opposite old gate. T road south Middle of bridge at temporary bench mark 5.6. Dam Neck Life Saving Station, at northeast corner of concrete runway, 2 feet south of north edge and 3 feet west of east edge; iron post stamped "Prim. Trav. Sta No. 9." Elevation 10 feet. Azimuth to nail in post 153° 23' 40". Stake on bank, about 300 feet south of concrete house. Post at Atlantic Avenue and Churchill Street. East rail, opposite fourth trolley pole from point of curve. Railroad trestle, line 2 feet west of east rail. Lake station, switch point north of, Steel water tank. Vignina Beach, Flag Pole triangulation station, Life Saving Station No. 2, U. S. Coast and Geodetic Survey.	36 36 36 36 36 36 36 36 36	47 47 47 47 47 47 48 48 49	03. 2 04. 5 03. 0 00. 8 14. 1 53. 6 28. 6 57. 8 50. 2 24. 5 47. 7	75 75 75 75 75 75 75	58 58 57 57 57 57 58 58	47. 1 06. 6 00. 7 51. 2 32. 6 42. 3 52. 5	Feet. 3,622 3,296 504 805 2,024 4,008 3,632 3,165 5,387 3,561 2,828 2,413			

Magnetic declination for quadrangle, 5.8° W.

WELLVILLE QUADRANGLE.

East along highways near south border of quadrangle. (By J. C. Fales in 1918.)

Station.	Latitude.			Latitude. Longitude.					tude.	Distance between stations.
		,	"	۰	,	,,	Feet.			
Road fork north	37	00	05. 2	77	57	00.1	1.000.			
Creek crossing		00	16. 6	77	56	23. 3	3, 206			
Road fork to unpainted house 500 feet south	37	00	19.0	77	56	01.4	1,789			
Creek crossing, 600 feet east of colored schoolhouse	37	00	31. 5	77	55	33, 2	1,789 2,615			
stone; hub at northwest corner of	37	00	35.1	77	54	48.2	3,667			
wooden gate in woven-wire fence	37	00	27.9	77	54	00.6	3,923			
T road to two-story white house 200 feet south	37	00	19.3	77	53	26. 4	2,910			
mail boxes at T	37	00	08.8	77	53	03.5	2, 135			
Bridge, wooden, with railings, 16 by 40 feet, west end of T road to house of R. A. Eckels 200 feet north	37	00	14.8	77		13.4				
T road to house of R. A. Eckels 200 feet north	37	00	20.8	77	50	52.7	1,785			

Magnetic declination for south border of quadrangle, 4° 17′ W.

WHITE PLAINS QUADRANGLE.

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

Station.	Latitude.			Latitude. Longitude.			Latitude. Longitude			Latitude. Longitude.			Distance between stations.
	-	,	"	۰	,	,,	Feet.						
Road, opposite wagon gate at old Hall place. T road to two-story gray house 300 feet east. Road, opposite wooden gate in woven-wire fence to farm build-	36 36	43 43	59. 9 33. 7	77 77	46 45	19. 9 30. 7	4, 80						
ings on west side of road. Road, opposite wooden gate to large old house 500 feet east Fitzhugh post office, at intersection of Emporia-Lawrenceville and Edgerton-Triplet roads, at northwest corner of residence plat of W. J. Ferguson; iron post stamped "Prim. Tray.	36 36	41 40	12.9 20.5	77		11. 2 40. 3	5,80						
Sta. No. 19, 1918" Froad to church 100 feet west	36 36	39 39 38	56. 5 23. 9 27. 2		46	52. 4 21. 0 59. 9	2,62 4,03						
Γ road west Γ road northeast to farm buildings	36	38	04.3	77		30. 3	6,55						
Wooden bridge, 20 by 14 feet, north end of	36	37	24. 1	77	46	11. 1	4,35						
Priplet post office, opposite Chambliss store road.	36	36	37. 9	77		58.8	4,78						
Wooden bridge, 90 by 14 feet, southwest corner of	36	35	32. 3 06. 3			03.2 11.4	6,63 2,71						
Road opposite house of B. H. Carpenter	36	34	33, 1			57. 0	3, 55						
Road, opposite house of B. H. Carpenter Fimber bridge, 10 by 12 feet, middle of	36	34	29. 8	77			4,01						

Southwest along Southern Ry. through northwest corner of quadrangle. (By J. C. Fales in 1918.)

Milepost 100, south rail opposite Meherrin River bridge, at east end of trestle approach, south rail	36	44	27. 1	77	55	57. 5	
rail Road crossing Farm crossing, seventh joint in south rail west of	36	44	08. 4	77	57	36. 8	4,906 3,725 6,879

South and southwest along highways. (By J. C. Fales, in 1918.)

	Prim. Trav. Sta. No. 16, 1918 (previously described in Lawrence-							}
	ville quadrangle)		45	22.9	77	51	03.4	l
٠	Point on entrance road to red brick house, 40 feet from center line							
	of county road			18.6	77		13.4	6,564
	Forkin road, at sign marked "2 miles to Main Street Garage"						50.0	2,256
	T road south to two-story house	36	43	59.3	77		24.8	2,181
	Meherrin River, south end of steel bridge over		43	00.6	77.	49	53.9	6,446
	Troad southeast to Emporia, 220 feet southwest of hub at bend,							
	in road where lane runs northeast	36	42	49.7	77	49	51.7	1,115

VIRGINIA.

WHITE PLAINS QUADRANGLE—Continued. South and southwest along highways—Continued.

Station.	1	atii	tude.	L	ongi	tude.	Distance between stations.
Sign on north side of road, marked "5 miles to Main Street Garage," south edge of road opposite. T road east to two-story house 800 feet from road	36 36 36 36	, 42 41 41	39. 9 46. 5 19. 7	77 77 77	, 50 51 51	31. 6 20. 4 27. 3	Feet. 3,399 6,704 2,766
White church 150 feet west of road, point on road in line with south face.	36	40	13.5	77	51	58. 9	7,179
Point in road, opposite small gate in picket fence, at front entrance to white house with red trimmings 150 feet west of road.	36	39	33. 9	77	52	05.0	4,028
Brunswick (Ezells store), 80 feet east of, east of crossroads; iron post stamped "Prim. Trav. Sta. No. 24, 1918"	36	38	51.4	77	52	14.8	4,379
Gholsonville post office, opposite front door of Valentine & Wes-	36	38	52.1	77	53	32. 2	6,305
son's store, west edge of road. T road to log cabin, 350 feet north of road. Point in road, in line with west wall of unpainted store building	36	38	20. 9	77	54	35.8	6,068
200 feet north of road. Fork in road, road west past front of negro church 500 feet from	36	37	56. 5	77	55	30.9	5,127
main road. South edge of road, at corrugated iron pipe culvert having C. M.	36	37	47.6	77	.56	21.7	4,235
King written in headwall. T road to unpainted house 120 feet south of road. Meherrin Church (colored),opposite front door of, point in road	36 36 36	38 38 38	09. 1 10. 9 36. 8	77 77 77	57 58 58	48. 1 29. 4 38. 0	7,372 3,374 2,710
T road to Vernon Bassett's house 250 feet east of road	36 36	39 39	08. 2 36. 9	77	59 59	06.7 11.3	3,948 2,927
Crossing of old and new roads	36 36	39 40	56. 1 00. 4	77	59 59	20.7 44.7	2,085 2,003
				<u> </u>			<u> </u>
North along highways. (By H. J. S	wita	zer i	n 1918.)			
Farm road east Farm road east Logging railroad crossing Logging railroad crossing Intersection of Elams-White Plains and White Plains-Gasburg	36 36 36 36 36	32 33 33 34	54. 8 25. 4 44. 6 16. 6	77 77 77 77 77	56 56 56 56	30. 1 29. 1 32. 4 36. 7	3,094 1,965 3,245
roads	36 36	35 36	$17.6 \\ 01.7$	77 77	56 57	53.6 26.4	6,324 5,196
South and of concrete culvert	36	36 37	41.8 21.0	77 77	57 57	04. 5 13. 3	4,436 4,016
South end of concrete culvert. Culvert (previously described).	36	38		77	57	48.1	5,632
(By J. C. Fales in 1918.)			<u> </u>			
Prim. Trav. Sta. No. 24, 1918 (previously described). T road to gray bungalow 200 feet south of main road. East end of timber bridge having concrete abutments. Second-class T road south. South point of Y at road south, "Metal Shoe" advertisement on	36 36 36 36	38 38 38 38	51. 4 48. 5 42. 3 51. 3	77 77 77 77	52 51 50 49	14. 8 29. 7 46. 8 36. 2	3,687 3,559 5,825
15-inch pine tree at southwest corner of intersection	36	39	08.8	77	49	12.3	2,631
Point in road, opposite woven-wire gate atroad to unpainted barn 250 feet south of road. Junction of Lawrenceville-Emporia road with road from Bruns;	36	40	01.3	77	48	31.4	6,280
Junction of Lawrenceville-Emporta road with road from Bruns, wick Crossing of Emporia-Lawrenceville road and Camp Manufactur-	36	40	06.6	77	47	54.4	3,062
Crossing of Emporia-Lawrenceville road and Camp Manuactur- ing Co.'s logging railroad	36 36	39 39	57. 5 56. 47	77	47 45	28. 8 52. 33	2,279 7,867
Tilli Time par 140, 10, 1010 (brostown) accompany			50. 11	<u> </u>	10		1,007

Magnetic declination for center of quadrangle, 3° 43′ W.; for south border of quadrangle, 4° 22′ W.; for west border of quadrangle, 4° 33′ W.; for east border of quadrangle, 4° 33′ W.

See also Emporia quadrangle.

WILLIAMSBURG QUADRANGLE.

South along Chesapeake & Ohio Ry. and highways in southwest portion of quadrangle. (By J. H. Wilson in 1916.)

Station.	Latitude.		Latitude.			L	ongi	Distance between stations.
•		,	,,		,	"	Feet.	
Milepost 242, east-bound track opposite	37	20	08. 2	76	44	52.7		
Ewell, road crossing at section house, east-bound track	37	19	19.6	76	44	10.2	5,991	
Road crossing, at James City County and York County line, east-	İ			['/'	
bound track	37	18	09.0	76	43	39. 2	7,569	
Road crossing, east-bound track	37	17	26.1	76	43	20.4	4,600	
Road forks, at road southeast	37	17	02.0	76	44	08.0	4,550	
Road east, center of main road in line with, large oak tree stands	1			1			1 ′	
in triangle	37	16	33.3	76	44	19.5	3,048	
Colored schoolhouse No. 2, James City County, opposite door of,	ŀ			1			, , ,	
center of road.	37	16.	23. 2	76	44	37.4	1,773	

Magnetic declination for southwest part of quadrangle, 4° 55' W.

Along highways. (By J. J. Charters in 1918.)

Williamsburg, 1 mile south of, 442 feet west of Chesapeake &							
Ohio Ry, crossing, 100 feet north of T road to Kings Mill Bluff:							l
iron post stamped "Prim. Trav. Sta. No. 1"	37	16	00.12	76	40	53.05	
Stake in ground, 5 feet north of new telephone pole, temporary	ł						
bench mark	37	15	36.88	76	40	57.68	2,380
T road west	37	15	26.53	76	41	09.69	1,428
Outlet to lake, center of bridge over, in wooden planking; nail	37	15	08.77	76	41	10.07	1,796
Grove station, about 2 miles northwest of, 50 feet from railroad	1						l
crossing, 15 feet north of west-bound track; iron post stamped	37	15	07.05	76	39	46, 00	!
"Prim. Trav. Sta. No. 6, 1918" T road east	37	15	31.73	76	39	11.47	1 740
T road (proviously described)	37	15	38.14	76	39	52.38	1,748 3,370
T road (previously described) Blazed tree marked "U. S. P. T. Sta.," 5 feet east of; stake with	1 31	10	90.14	10	09	02.00	3,370
nail in ton	37	15	01, 70	76	38	02.68	}
nail in top. Creek running east, crossing of	37	15	03. 02	76	37	58, 68	352
T road northwest (previously described)	37	15	19.68	76	37	55, 43	1,705
T road northwest (previously described)	37	15	11.68	76	39	47. 93	1,.00
T road northeast	37	15	14. 90	76	39	49. 23	341
Railroad crossing, on branch of Chesapeake & Ohio Ry., south rail.	37	15	34.57	76	39	51.51	1,988
T road	37	15	38.14	76	39	52.38	368
T road south	37	15	47.05	76	39	55.67	939
		15	50.55	76	39	57.54	385
T road west	37	15	57.31	76	40	25.62	2,371
T road southwest	37	15	56.27	76	40	45.50	1,610 723
Prim. Trav. Sta. No. 1 (previously described)	37	16	00.12	76	40	53.05	723
Intersection of crossroads, at 11 mail boxes	37	15	06.04	76	37	15.39	l
T road north	37	15	08.50	76	37	27.34	997
Temporary bench mark; elevation 68.4 feet, point in road oppo-	0.7		00 00		0.77	40.14	1 100
Site	37	15 15	09. 26 12. 41	76 76	37 37	42. 14 47. 84	1,198 561
Road south near temporary bench mark; elevation 85.6 feet Road northwest	37	15	19.68	76	37	55, 43	957
T road southeast		15	25. 10	76	38	14.06	1,603
T road south		15	29, 46	76	38	20. 28	668
T road north		15	33, 64	76	38	26, 82	677
T road northwest to house.	37	15	37. 94	76	38	39. 88	1,141
Dupont powder mill, on branch railroad to, 15 feet southeast of	, ,	-0			50	22700	1,111
south rail, 25 feet southeast of crossroads; iron post stamped	1						
"Prim. Trav. Sta. No. 11, 1918"	37	15	40.58	76	38	52.88	1,084
·	1						<u> </u>

Magnetic declination for south border of quadrangle, 5.5° W.

YORKTOWN QUADRANGLE.

CAMP ABRAHAM EUSTIS.

Along highways. (By J. J. Charters, in 1918.)

Station.	1	Lati	tude.	L	ongi	itude.	Distance between stations.
Iron post, 30 feet west of road, 400 feet south of house in field; iron post stamped "Prim. Trav. Sta. No. 2" Second-class T road west through woods. Concrete culvert with sewer-pipe drains.	37 37 37 37	, 14 14 14	40. 19 36. 74 13. 85	76 76 76	, 40 40 40	47. 05 43. 08 22. 07	Fect. 475 2,872
Second-class I road west through woods. Concrete culvert with sewer-pipe drains. Kings Mill, near ruin of, at right angle in road; stake with nail in top, marked "t. b. m." Kings Mill Bluff, 20 feet from edge, in first open field east of Kings Mill wharf; iron post stamped "Prim. Trav. Sta. No. 2 C."	37	14	10.29	76	40	21.82	361
Center of creek, 20 feet east of east water line of James River	37 37	13 13	23. 28 21. 85	76 76	40 39	02.66 38.91	5,001 1,926
"Posted J. D. Lewis" J. D. Dunn's house, 200 feet south of, 0.25 mile south of main road, 60 feet north of north end of ravine; iron post stamped "Prim. Trav. Sta. No. 4"	37	13	16.63	76	39	05. 49	2,754
Second-class road north and south. T road south along wire fence. Grave station, 0.75 mile west of at intersection of T road; 20.	37 37 37	13 13 14	21.96 48.54 10.59	76 76 76	39 38 39	03. 76 58. 98 01. 92	557 2,715 2,243
feet north of large oak tree; iron post stamped "Prim. Trav. Sta. No. 5, 1918 C" T road east. T road west opposite temporary bench mark. T road. T road west. T road west. T road west. T road west. T road west. T road west. T road west. T road west. P road west. T road west. T road west. T road west. T road west. Road for sta. No. 5, 1918 (previously described). Road forks.	37 37 37 37 37 37 37 37 37	14 14 14 14 14 14 14 14	20. 76 22. 38 24. 82 27. 29 28. 60 36. 62 38. 87 41. 01 52. 88 20. 76	76 76 76 76 76 76 76 76 76	38 39 39 39 39 39 39 39	59. 90 07. 96 11. 29 14. 98 16. 87 25. 53 28. 00 30. 45 37. 14 59. 90	1,042 672 365 389 201 1,071 303 293 1,317
Road forks Crossroads Center of road, 4 feet from old pinelog, near witness stake 5 feet high; stake with nailin top	37 37 37	14 14 14	40. 01 39. 09 42. 20	76 76 76	38 38 38	53. 76 47. 06 40. 81	2,010 551 598
Frim. Trav. Sta. No. 5 (previously described)	37 37	14 14	47. 33 20. 76	76 76	38 38	18, 64 59, 90	1,869
south track. T road northeast. T road east. T road east. T road east. T road east. T road of the state of the	37 37 37 37 37 37 37 37	14 14 13 13 13 13 13	13. 44 06. 32 02. 83 56. 65 47. 71 35. 25 24. 79 08. 38	76 76 76 76 76 76 76 76	38 37 37 37 37 37 37 37	06. 41 51. 02 46. 77 40. 76 37. 46 42. 69 38. 50 29. 55	4,389 1,438 493 792 943 1,329 1,111 1,811
east of T road; iron post stamped "Prim. Trav. Sta. No. 7, 1918 C" Troad north to old deserted white house. Grove triangulation station of U. S. Coast and Geodetic Survey, about 5 miles on north side of James River, nearly north of Deepwater Shoals Lighthouse, on an estate known as "The Grove" owned by Young B. Choals, on bluff about 100 yards west of ravine, 0.25 mile west of Mr. Choals's house; marked with neck of bottle 4.5 feet below surface, over this an iron screw pile, center marking point, over this a cedar stub, top 8 inches above surface, marked with copper tack, in back	37 37	13 12	02. 90 45. 97	76 76	37 37	22. 39 50. 89	801 2,871
8 inches above surface, marked with copper tack, in back range to Deepwater Lighthouse. Line post of York and James City counties, 50 feet from, 30 feet south of south rail of east-bound track of Chesapeake & Ohio Ry, 15 feet west of road; iron poststamped "Prim. Trav. Sta. No. 9, 1918" Troad south Troad east	37	12	30.068	76	37	56. 661	1,674
	37 37 37 37 37	13 14 14 14	58. 01 04. 76 12. 37 26. 01	76 76 76 76	37 37 37 37	38. 04 24. 58 23. 47 23. 53	1,286 775 1,380
A. Williams's mail box, 100 feet east of, 100 feet southwest of old deserted shack, in triangular grass patch at intersection of threeroads; iron poststamped "Prim. Trav. Sta. No. 10, 1918".	37	14	48. 64	76	37	08.55	2,590

Magnetic declination for north border of quadrangle, 5.5° W.

YORKTOWN QUADRANGLE—Continued. Northeast along highways near center of quadrangle. (By J. C. Fales in 1918.)

Station.		Lati	tude.	L	ongi	itude.	Distance between stations.
Crawford triangulation station of U. S. Coast and Geodetic Survey, on north side of James River, bears about southeast from Deepwater Shoals Lighthouse, distant 1.25 miles, near Mulberry Point, on rampart near westernmost angle of a large earth fort called Fort Crawford, land belongs to Mr. Crawford, and his dwelling house stands inside the fort. Station is marked with neck of a bottle 5 feet below surface, over this is a locust stub 5 feet long, 9 inches in diameter, top marked with copper tack and flush with surface of rampart; distance from station to outer angle of rampart is 105 feet, dis-	0	,		0.70	,		Feet.
tance to inner angle, 97 feet; recovered in 1910. Fort Crawford, 0.4 mile northeast of, 50 feet west of road, 8 feet north of gate to second-class road, which leads west to farm; iron post stamped "Prim. Trav. Sta. No. 11, 1918. Elev.	37	07	43.89	76	37	12.42	
4 feet."	37	08	02.95	76	36	54.39	2,418
house 200 feet north of road. Hub at intersection whence woods road leads east	37 37 37	08 08 08	08. 06 13. 37 23. 68	76 76 76	36 36 36	47. 43 37. 90 23. 02	764 940 1,592
At south lence of main I whence road leads north from main road; 2 by 4 inch hub with copper nail and washer	37	08	25.03	76	36	15.19	649
corner of Troad east; iron post stamped "Elev. 9 feet. Prim. Trav. Sta. No. 8, 1918"	37 37 37	08 08 08	36.31 45.29 55.71	76 76 76	36 36 36	16. 93 19. 55 12. 11	1,149 933 1,214
feet couth ofroad	37	08	57.73	76	36	04.82	624
Mulbery Island post office, 2.37 miles northeast of, southeast side of road, opposite center line of T road northwest; iron poststamped "Elev. 7 feet. Prim. Trav. Sta. No. 6, 1918". Centerline of main road, at center line of T road north. Centerline of main road, opposite center line of T road north	37 37	08 09	$\begin{array}{c} 58.02 \\ 02.75 \end{array}$	76 76	$\frac{35}{35}$	58. 51 49. 54	510 869
through wooden gate in barbed-wire fence. Lee Hall, 3.41 miles south of, 2.89 miles north of Mulberry Island post office, in north corner of T road northwest, 2 feet south of fence-corner post at entrance to Milstead sfarm; iron post	37	09	06.70	76	35	36.97	1,093
stamped "Elev. 30feet. Prim. Trav. Sta. No. 4, 1918" Center line of woods road, at intersection of center line of nearly obliterated wagon trail which forks to the north at this point;	37	09	11.28	76	35	31.25	654
hub with copper nailand washer Centerline of road, 60 feet north of front door of white house of	37	09	04. 26	76	35	24.00	921
J. C. Wallace 30 feet east of road, hub is 8 feet west	37	09	12.69	76	34	59.66	2,147
southwest of; copper nailand washer	37	09	12.06	76	34	41.95	1,436
Sta. No. 5, 1918" Intersection of center line at T of new road. Centerline of T road east. Peak at top of sawdust pile 35 feet high.	37 37 37 37	09 09 09 09	11. 84 19. 13 27. 05 41. 55	76 76 76 76	34 34 34 34	30. 42 31. 02 29. 76 29. 78	933 738 807 1,467
Troad south, 40 feet east of, on south side of road, 200 feet east of church.	37	09	54.62	76	34	40. 89	1,599
road fork, opposite administration building whence road leads west to Barley farm; iron post stamped "Prim. Trav. Sta. No. 1, 1918. Elev. 34". Centerline of road, opposite small gate at entrance to light blue	37	09	47.42	76	34	53.98	1,286
house 200 feet east of road. Center line of main road at T road south. Old earthworks, 1.2 miles south of Lee Hall, at northeast corner of intersection of Newport News-Lee Hall road with Mulberry	37 37	10 10	04.15 19.59	76 76	34 34	33. 22 18. 20	2,385 1,979
Island road, at foot of signpost; iron post stamped "Prim. Trav. Sta. No. 30, elev. 40, 1918".	37	10	3 7 . 08	76	34	11.71	1,845

Magnetic declination for center of quadrangle, 5.5° W.

Checked spur line from Primary Traverse Station No. 1 to Primary Traverse Station No. 2. (By J. C. Fales in 1918.)

Prim. Trav. Sta. No. 1. Old earthworks, 1.23 miles southwest and 1.53 miles west of,				ł			
250 feet south of house near bridge, on bank of James River; iron post stamped "Prim. Trav. Sta. No. 2, 1918. Elev. 21"	37	09	54.36	76	36	23.05	7,244

YORKTOWN QUADRANGLE-Continued.

From Primary Traverse Station No. 4 northwest to Primary Traverse Station No. 3, thence south to Primary Traverse Station No. 8.

Station.	ı	Latitude.			ongi	Distance between stations.	
Prim. Trav. Sta. No. 4 (previously described). Old earthworks, 2.19 miles southwest and 0.8 mile west of, at	37	09	" 11.37	76	, 35	31.34	Feet.
Milstead's farm, 100 feet southwest of farmhouse, in angle of wire fence; iron poststamped "Prim. Trav. Sta. No. 3. Elev. 25, 1918". Mulberry Island post office, 2.17 miles northwest, thence 0.41 mile west of, about 1,000 feet east of bank of river, in northwest	37	09	35, 83	76	36	12.78	4,172
corner of crossroads, 400 feet west of farmhouse; iron post stamped "Prim. Trav. Sta. No. 7. Elev. 7, 1918"	37 37	09 08	05. 15 36. 35	76 76	36 36	33. 47 16. 97	3,525 3,200
From Primary Traverse Station No. 5 via Shipyard Landii (By J. C. Fales and J. J. Phela:	ıg t nin :	o P 1918	rimary .)	tra	vers	e Stat	ion No. 3.
Prim. Trav. Sta. No. 5. Shipyard Landing, east of junction of Warwick River and Stony	37	09	11.84	76	34	30. 42	
Run, on top of knoll, in midst of grove of pine trees; iron post stamped "Prim Trav. Sta. No. 24, 1918". Warwick Courthouse, about 1 mile north of, on east side of New- port News-Williamsburg road, opposite T road west to Ship- yard Landing; iron post stamped "Prim. Trav. Sta. No. 25 P,	37	08	36. 56	76	33	52.71	4,695
1918". Road forks. Warwick Courthouse about 2.5 miles porth of on east side of	37 37	08 09	57. 42 26. 40	76 76	33 33	11.16 24.14	3,967 3,113
Newport News-Williamsburg road, 100 feet north of T road east; iron post stamped "Prim. Trav. Sta. No. 29 P, 1918" Road forks on Reservoir dam. Prim. Trav. Sta. No. 3	37 37 37	09 10 10	54. 33 16. 23 37. 08	76 76 76	33 33 34	22. 91 39. 46 11. 71	2,826 2,589 3,361
From Grove triangulation station via highways to Primary works. (By J. J. Charters in	Tra n 191	ver 8.)	se Stat	ion	No.	3 at c	old earth-
Grove triangulation station (previously described)	37	12	30.07	76	37	56.66	
James River, 50 feet east of east shore of, cast side of road, 1 foot out of ground, granite block. James River, about 1,700 feet east of, at road forks; iron post stamped "Prim. Trav. Sta. No. 17, 1918 C". Crossroads. Troad west.	37 37	11 11	52. 81 52. 25	76 76	37 37	24. 38 02. 19	4,586 1,797
Crossroads. T road west. T road southwest. Skiffs Creek, on north bank of, 10 feet north of water line, 50 feet west of cedar tree and 50 feet south of oak tree with dead top;	37 37 37	11 11 11	54. 75 27. 48 13. 02	76 76 76	36 36 36	39. 92 18. 97 04. 32	1,820 3,239 1,885
west of cetal rice and so rece said of day it ce with dead off, iron post stamped "Prim. Trav. Sta. No. 18, 1918 C"	37 37	10 10	40. 78 37. 08	76 76	36 34	14.94 11.71	3,374
From Primary Traverse Station No. 7 along highways t	o Pr	ima	ry Tra	vers	se S1	ation !	No. 3.
Prim. Trav. Sta. No. 7 (previously described)	37	13		76		22.39	
south; iron post stamped "Prim. Trav. Sta. No. 14, 1918 C" T road south Crossroads, on south side of road, near wire fence; iron post stamped "Prim. Trav. Sta. No. 16, 1918 C"	37 37 37	12 11	23. 48 56. 61 47. 12	76 76 76	36 35 35	19. 11 58. 25 34. 74	6,486 3,199 2,129
° .	3,	11	71.12	1"		04, 14	2,129

YORKTOWN QUADRANGLE—Continued.

MULBERRY ISLAND.

Along highways. (By J. C. Fales in 1918.)

Station.	Latitude.		L	ongi	Distance between stations.		
Treed but 9 by timber with conversed and weeker (on line					,		Tiest
Troad, hub 2 by 4 inches with copper nail and washer (on line from Crawford to Prim. Trav. Sta. No. 3)	37	08	25, 06	76	36	15. 23	Fcet.
stamped "Elev. 4. Prim. Trav. Sta. No. 10, 1918" Road fork south, opposite and on north side of fork, hub with	37	08	06.99	76	36	07.63	1,929
10-penny nail	37.		52.74	76	36	17.52	1,648
10-penny nail Road fork in gore of fork; iron post stamped "Elev. 8. Prim. Trav. Sta. No. 15, 1918" T road west, east edge of road at. Footbridge crossing creek, south end of. On south side of road, iron post stamped "Prim. Trav. Sta. No. 17, 1918. Elev. 9" Bridge 12 by 12 feet, without railing (the western one of two	37 37 37	07 07 07	32, 32 22, 38 05, 11	76 76 76	36 36 36	20.01 07.31 10.69	2,075 1,438 1,768
On south side of road; iron post stamped "Prim. Trav. Sta. No. 17, 1918. Elev. 9"	37	07	08.00	76	36	26.15	1,285
bridges on parallel roads 20 feet apart), south end of	37	07	33.78	76	36	42.33	2,918
Right angle in cornfield road, near clump of trees in open field; iron post stamped "Elev. 8. Prim. Trav. Sta. No. 16, 1918" Crawford triangulation station (U. S. C. & G. S.)	37 37	07 07	26. 15 43. 89	76 76	36 37	54. 56 12. 42	1,255 2,304
Closure error Prim. Trav. Sta. No. 10 (previously described)	37	08	.00 06.99	76	36	+.04 07.63	
Tarm road west	37	07	52. 98	76	35	56.41	1,684
post stamped "Elev. 10. Prim. Trav. Sta. No. 12, 1918" Mulberry Island post office, northeast corner of road T at; iron	37	07	40.93	76	35	40.55	1,772
Brick yard, 200 feet northwest of northwest corner of iron post	37	07	21.91	76	35	17. 20	2,698
post stamped "Elev. 10. Prim. Trav. Sta. No. 12, 1918" Mulberry Island post office, northeast corner of road T at; iron post stamped "Elev. 7. Prim. Trav. Sta. No. 14, 1918" Brick yard, 200 feet northwest of northwest corner of; iron post stamped "Elev. 10. Prim. Trav. Sta. No. 13, 1918" "Jut-out" toward Warwick River, northeast corner of, hub with copper nail witnessed by 2 blazed 8-inch yellow-pine trees respectively 35 feet due south and 30 feet due west	37	07	28. 26	76	34	51.58	2,205
Old earthworks, northwest corner of excavated ditch around T road: iron post stamped "Elev. 12. Prim. Tray. Sta. No. 9.	37 37	07 07	51.66 55.13	76 76	34 35	55. 90 12. 36	2,292 1,377
1918". Road fork (two woods roads). White farm house 60 feet east of road, wooden wagon gate at	37 37	08 08	12, 05 15, 99	76 76	35 35	24. 56 40. 75	1,974 1,369
entrance, road opposite and 15 feet west of. T of woods roads. Prim. Trav. Sta. No. 6 (previously described).	37 37	08 08	28. 80 38. 73	76 76	$\frac{35}{35}$	40. 07 43. 17	1,297 1,034
Prim. Trav. Sta. No. 6 (previously described)	37	08	58.09 +.04	76	35		2, 330
described). Mulberry Island post office, 1.94 miles southeast of, in west end of	37	07	21.91	76	35	17. 20	
grass triangle formed by roads in three directions; iron post stamped "Prim. Trav. Sta. No. 18, 1918. Elev. 6"	37	06	58.74	76	35	08.44	2,446
mail	37	06	47.05	76	35	34. 25	2,400
west of; fron post stamped "Elev. 6. Prim. Trav. Sta. No. 19, 1918"	37	06	51.72	76	35	54.38	1,698
1918". Footbridge crossing creek (previously listed). Prim. Trav. Sta. No. 18 (previously listed). Road fork east. Road fork east.	37	07 06	05. 11 58. 74	76 76	36 35	10. 69 08. 44	1,893
Road fork east Road fork east	37	06 06	55. 85 51, 41	76 76	35 35	07. 61 07. 30	300 449
T road west at old store, hub at east edge of road	37	06	48. 54	76	35	07. 25	290
west edge of road, hub with copper nail Mulberry Island post office, 2.58 miles southeast of, 20 feet north of road, 30 feet east of lane, inside of wire fence; iron post stamped "Prim. Trav. Sta. No. 21, 1918. Elev. 9"	37	06	37. 15	76	35	00.64	1,270
stamped "Prim. Trav. Sta. No. 21, 1918. Elev. 9"	37	06	22, 29	76	34	43. 19	2,064
Hub with copper nail, 12 feet north of woven-wire fence, 165 feet east of wooden gate in rail fence. Hyperiated housen back of Worwight Divor, 200 feet east of	37	06	30.52	76	34	25. 46	1,660
Unpainted house on bank of Warwick River, 200 feet east of; iron post stamped "Elev. 9. Prim. Trav. Sta. No. 22, 1918". Log culvert over drainage ditch, at entrance to Jesse Nettle's	37	06	40.87	76	34	09.66	1,654
farm, hub 20 feet east of	37 37	07 06	08. 54 58. 74	76 76	34 35	35. 26 08. 44	3,484 2,843
Prim. Trav. Sta. No. 21 (described above). Mulberry Island post office, 3.14 miles southeast of, at forks of lane, 60 feet north of road, 40 feet east of lane, 10 feet south of vision force items of temper (19 miles (19 miles 1	37	06 05	59, 81	76	34	43. 19	
Road T, hub at southwest corner of. Angle in road near Campbell farm, hub about 75 feet north of. Mulberry Island post office, 3.76 miles southeast of, on south edge of road, near end of island, 3 feet south of gatepost, 2 feet west of wire fence; iron post stamped "Prim. Tray. Sta. No. 25.	37 37	06 05	00, 57 45, 73	76 76	34 33	07.94	3, 143 690 2, 504
of wire fence; iron post stamped "Prim. Trav. Sta. No. 25, 1918. Elev. 7" Prim. Trav. Sta. No. 23 (described above). T road west (previously listed).	37 37 37	05 05 06	33. 70 59. 81 48. 54	76 76 76	33 34 35	16.40	1,553 3,153

YORKTOWN QUADRANGLE—Continued.

MULBERRY ISLAND-Continued.

Along highways-Continued.

Station.	I	atit	ude.	L	ongi	tude.	Distance between stations.
Hub with copper nail, 6 feet north of barbed wire fence, 150 feet east of fence corner, at northwest corner of plowed field	37	, 06	30, 99	76	, 35	,, 12, 50	Fcet. 1,824
South end of pine grove; iron post stamped "Elev. 4. Prim. Trav. Sta. No. 20, 1918" Hub 200 feet south of white house with green trimmings (pre-	37	06	12, 26	76	35	01.12	2, 105
Hub near northwest corner of plowed field (described above)	37 37	06 06	37. 15 30. 99	76 76	35 35	00.64 12.50	2,518
Unpainted fishermen's huts, 100 feet north of; iron post stamped "Prim Trav. Sta. No. 194, 1918"	37 37	06 06	22. 88 30. 52	76 76	35 34	44, 21 25, 46	2,697
Trav. Sta. No. 24, 1918". Hub at southwest corner of road T (previously listed)	37 37	06 06	14.30 00.57	76 76	33 34	51.96 07.94	3,171 1,900
Prim. Trav. Sta. No. 25 (previously listed). T road west.	37 37	05 05	33.70 21.41	76 76	33 33	55.12 37.89	1,869
Road T, 900 feet northwest of two-story white building; iron post stamped "Elev. 8. Prim. Trav. Sta. No. 26, 1918"	37	05		l			
Unpainted shacks at south end of island, near gate at entrance to; iron post stamped "Elev. 7. Prim. Trav. Sta. No. 27, 1918"	07		13.99	76	33	28. 44	1,072
to iron post stamped "Elev. 7. Frim. Trav. Sta. No. 27, 1918" Prim. Trav. Sta. No. 25 (described above)	37 37	04 05	52. 42 33. 70	76 76	33 33	08. 08 55. 12	2,736 5,654
Along highways. (By J. J. Phe	an i	n 19	18.)				
Prim. Trav. Sta. No. 25.	37	08	57.42	76	33	11.16	
T road west. Warwick courthouse, in front wall of, 3 feet from ground; alumi- num tablet stamped "Prim. Trav. Sta. No. 26 P, 1918. Elev.	37	08	36. 53	76	32	53. 21	2,566
36". George N. Sykes's residence, in northeast corner of yard of, on south side of T road and on west side of main Newport News- Williamsburg road from Denbigh post office to Mennonite colony; iron post stamped "Prim. Trav. Sta. No. 27 P, 1918".	37	07	47, 21	76	32	32.76	5, 257
colony; iron post stamped "Prim. Trav. Sta. No. 27 P, 1918".	37 37	07 07	38. 54 30. 88	76 76	$\frac{32}{32}$	22.00 44.57	1,237
Crossroads, center of, nail in hub. T road north T road south, 18 feet northwest from mail box marked "P. W.	37	07	29. 50	76	33	14.78	1,537 2,450
Road forks, in center of; nail in hub.	37 37	07 07	28.35 29.82	76 76	33 33	27.60 48.60	1,050 1,700
Hoops machineshop, 30 feet west of, 2.5 feet east of gatepost, on north side of road; nail in hub Center of road, 8 feet northwest from farm road; nail in hub Henry Schelley's residence, in corner of field, 5 feet west of cen-	37 37	07 07	26. 01 43. 27	76 76	34 33	06.10 52.60	1,440 2,060
Henry Schelley's residence, in corner of field, 5 feet west of center of road where wood road leaves farm road; iron post stamped "Prim. Trav. Sta. No. 23 P, 1918". Hub in ground 17 feet north of tree marked "P. T. 17 feet," and 19 feet east of tree marked "P. T. 19 feet."	37	08	04.78	76		22, 32	3, 245
19 feet east of tree marked "P. T. 19 feet". Hub with nail 6.4 feet south of large oak tree marked "P. T. 6.4". Prim. Trav. Sta. No. 24	37 37 37	08 08 08	11.50 29.28 36.56	76 76 76	34 33 33	14.51 51.71 52.71	2,577 750
Spur line along highway	/S.			l			<u> </u>
Jesse Nettler's residence, 70.9 feet southwest from chimney of,				ŀ			
46.2 feet south from nail in 5-inch walnut tree, and 28.6 feet north from nail in 6-inch pine tree; iron post stamped "Prim. Tray. Sta. No. 22 P. 1918".	37	07	02.21	76	33	36. 76	
Mohea, about 0.75 mile northeast of, northwest corner of cross- roads, in field about 3 feet from fence line; iron post stamped "Prim. Tray. Sta. No. 21P, 1918".	37	06	36. 82	76	32	45, 86	7,077
Menchville, about 0.75 mile northwest of, in field at northeast corner of junction of Cedar road and Youngs road; iron post stamped "Prim. Trav. Sta. No. 20 P, 1918"	37	05	34.98	76	32	04.98	3,037
Southeast along highways near north border of quadra	ngle	. (By J. J	. Cl	art	ers in 1	918.)
Drim Trees Ste No 7 (pregricus ly leasted)	27	12	02.00	70	27	99 20	1
Prim. Trav. Sta. No. 7 (previously located) Near T road bearing west, on root of white oak tree near mail box (Lincoln Orange) U. S. temporary bench mark U. S. temporary bench mark marked "76.6" Near T road south, on south side of road, near mail box of C. C. Cole, U. S. bench mark marked "63.3 Elev".	37		02.90	l	37		1 770
pox (Lincoln Urange) U. S. temporary bench mark	37	12 12	48. 42 31. 79	76 76	37 36	10.06 48.53	1,770 2,421
U. S. temporary bench mark marked "76.6"	37	14	01.70	10	90	40.00	2, 121

YORKTOWN QUADRANGEL—Continued. Southeast along highways near north border of quadrangle—Continued.

Station.	ן ו	Latit	ude.	L	ongi	tude.	Distance between stations.
Near Morning Star Church, in triangular patch of grass at inter- section of two roads; iron post stamped "Prim. Trav. Sta. No. 14, 1918 C. Elev. 53.8". I road bearing north and south, intersection of center line south. At crossroads north and south and east and west, on south side	37 37	, 12 11	23. 47 56. 60	76 76	, 36 35	19. 10 58. 25	Feet. 1,336 3,198
of road, near wire fence; iron post stamped "Prim. Trav. Sta. No. 16, 1918 C". Skiff's Creek, station 296, first point on north side. Skiff's Creek, station 297, second point on north side. Skiff's Creek, station 298, on south shore. Tie point, station 303, on line from Grove triangulation station. And in read 110 feat teath of function of T. and northest on.	37 37 37 37 37 37	11 11 10 10 10	47. 12 01. 00 59. 37 54. 38 36. 21	76 76 76 76 76	35 35 35 34 34	34, 75 04, 90 07, 40 59, 07 58, 41	2, 129 5, 253 260 842 1, 838
Angle in road, 110 feet south of junction of T road northeast, on east side of road, 1 by 2 inch wooden stake. Forks of Y road to Newport News and Williamsburg and Mulberry Island road; iron post stamped "Prim. Trav. Sta. No. 30 P, 1918".	37 37	10 10	35. 92 37. 08	76 76	34 34	46. 47 11. 71	970 2,819
East along highways near north border of quadrang	gle.	(B ₃	7 J. J. (Chai	ter	s in 191	B.)
On Yorktown road near Charlos Corner; U. S. permanent bench mark No. 10 (previously computed)	37	14	48.64	76	37	08. 55	
Halsteads Point, 2.5 miles northwest of, top of north end head wall of concrete culvert over small creek; chuseled square marked "U. S. B. M. 39.2".	37	14	40.14	76	36	39. 17	2,526
Halsteads Point, 2.25 miles northwest of, 0.25 mile east of small creek, 350 feet west of dim road crossing highway, 4 feet from telephone pole 2593, at break of hill, top of 4-inch pine stake; copper nail and washer, marked "U. S. B. M. 87.4"	37		32.67	76	36	26.67	1,262
Troad east, intersection of center line south. Halsteads Point, 1.8 miles northwest of, on north side of Williamsburg-Yorktown road, on east side of Troad north; iron post stamped "Prim. Trav. Sta. 12 P, 85 1918," corner fence post marked "U. S. P. B. M. 85.1". Halsteads Point 1.5 miles northwest of, top of south end of	37		31.88	76	36	19. 56	580
stone pipe culvert, telephone pole 20 feet west marked "U. S.			24,65	76		01.10	1,662
82.4" T road west, intersection of center line south Halsteads Point, 1.2 miles northwest of, on summit of low ridge, on south side of road, opposite T road north, in root of 40-inch oak tree; copper nail and washer, tree marked "U. S. B. M.	37 37		12.37 08.78	76 76	35 35	50.90 47.48	1,491 455
82.9". Halsteads Point, 0.9 mile northwest of, on south side of road, at T road north, in root of 15-inch pine tree: 40-penny wire nail.	37		01.94	76		34.10	1,284
tree marked "U. S. 77.3". U. S. temporary bench mark marked "82.0," 13 feet west of	37		54.10	76		19.80	1,397
center of road. Temporary bench mark 14.1 feet east of road. T road west, intersection in center of road south. Halsteads Point, 0.25 mile west of, at T road north, at telephone pole 2679, top of 3-inch stake; wire nail, pole marked "U.S.	37 37 37	13 13 13	48.76 48.22 49.17	76 76 76	35 34 34	05.04 53.65 43.20	1,309 922 849
83.1" Balsteads Point, at intersection of three roads; Yorktown, Williamsburg, and Newport News, near Goodrich guidepost, in triangular grass plat; iron post stamped "Prim. Trav. Sta. No. 13, 1918 C Elev. 87".	37	13	49.45	76	34	39.16	328
No. 13, 1918 C Elev. 87"	37	13	43.63	76	34	24.13	1,350
Magnetic declination for north border of quadrang	gle,	5.4	۰w.				
West along highways near north border of quadran	igle.	(E	Ву J. J.	Phe	lan	in 1918	.)
Yorktown monument, U. S. Coast & Geodetic Survey triangulation station, center of shaft	37	14	00.23	76	30	18.84	
of road crossing, U. S. G. S. bench mark	37		05.24	76	30	28.62	939
west of courthouse, 25 feet north of Yorktown road	37		09.27	76	30	33.86	587
bridge; nail in hub. Yorktown, 1.6 miles west of, at crossroads, at fork of Dabney road, 80 feet north-northwest of pine tree marked with white paint; from post stamped "Prim. Tray. Sta. No. 33 P. 1918.	37	14	20.67	76	30	48.37	1,645
Elev. 69". Road forks. Yorktown, 2.35 miles west of, in southwest corner of T lane south through woods; iron pipe 2 inches in diameter with cap on tan painted white; ton draw marked "II S. 75.5 R M".	37 37	13 14	58.01 02.61	76 76	31 32	57.03 25.96	6,006 2,386
south through woods; iron pipe 2 inches in diameter with cap on top painted white; top of cap marked "U. S. 75.5 B. M."	37	13	58.83	76	32	43.90	1,500

YORKTOWN QUADRANGLE—Continued. West along highways near north border of quadrangle—Continued.

0	•		•				
Station.		Lati	itude.	T	ong	itude.	Distance between stations.
Yorktown, 2.51 miles west of, 70 feet east of front entrance of Rising Sun Church, in northeast corner at T road north, in south root of 5-foot jack-oak tree; copper nail and washer, painted "U. S. 76.9 B. M." T road, 50 feet southwest of, U. S. 85.5 B. M., on pine tree on east side of road. Prim. Trav. Sta. No. 13 C, Halsteads Point (described above).	37	13	49.88	76 76 76			Fcet. 819 6,052 1,456
Magnetic declination for north border of quadran	gle,	5.6	3° W.				
East along highways near center of quadrangle.	•			rter	s in	1918.)	
Prim Tray Sta No 14 (praviously described)	27	19	23.47	76	36	19.10	· ·
Prim. Trav. Sta. No. 14 (previously described). Lebanon Church, 1.6 miles southwest of, in southwest angle of crossroads, at north end of a grove of black-locust trees, at en- trance to old farmhouse, top of 2 by 4 inch stake; copper nail and washer, tree5 ofectsouthwest marked "U. S. B. M. 46.1". T road north, intersection of roads. Lebanon Church, 1.4 miles southwest of, 800 feet west of Blows Mill Run, at break of hill, on south side of road, 1 foot from			25.58	76 76	36	36. 16 57. 30	320 1,537
fence post, top of 3-inch stake; copper nail and washer, post marked "U.S. 52.0". Lebanon Church, 1.0 mile southwest of, 40 feet south of Chesapeake & Ohio Ry. track, on east side of road, top of 7-inch oak stake; copper nail and washer, telegraph pole 10 feet south marked "U.S.B. M. 49.3". Lebanon Church, 0.5 mile west of, on north side of road, at Troad north, top of 14-inch pine stump; copper nail and washer, tree 40 feet west marked "U.S.B. M. 84.3".	37	12	28.72	76	35	51.76	470
marked "U. S. B. M. 49.3" Lebanon Church, 0.5 mile west of, on north side of road, at T	37	12	32.07	76	35	17.08	2,826
road north, top of 14-inch pine stump; copper nail and washer, tree 40 feet west marked "U.S.B.M. 84.3". Froad northeast, intersection of center line south. Lebanon Church, in southeast corner of lot, northwest corner at junction of first-class T road bearing west, about 20 feet from sign of Warwick Hotel; iron post stamped "Prim. Trav. Sta. No. 15 C, 1918".	37 37		47.41 47.01	76 76	34 34	46.38 32.50	2,929 1,124
No. 15 C, 1918"	37	12	45.78	76	34	19.44	1,064
South along highways near center of quadrangle	э. (Ву	J. J. Ph	elar	in :	1918.)	
Halsteads Point, Prim. Trav. Sta. No. 13 C, 1918 (previously described) Road fork, 33 feet from telephone pole 2736, 6 feet east of road bank. 20 feet southwest from stump on road bank, marked	37	13	43.63	76	34	24.13	
bank, 20 feet southwest from stump on road bank, marked "U.S. B. M." Lebanon Church, Prim. Trav. Sta. No. 15 C, 1918 (described above)	37	12	55.41	76	34	15.57	4,926
above) farm road Water tank, 150 feet southeast of, at T road in Lee Hall road	37 37	12 12	45.78 01.37	76 76	34 34	19.44 24.34	1,023 4,509
Harm road. Water tank, 150 feet southeast of, at T road in Lee Hall road going to depot, in southeast corner of lot; iron post stamped "Prim. Trav. Sta. No. 31 P. 1918". Hub with nail, 44 feet from telephone pole 2804 AA, 21.9 feet from gatepost east of road, 24.6 feet from cedar tree on west side of road, 30.7 feet from cedar tree on east side of road, 15 feet from barbed-wire fence.	37	11	40.30	76	34	18.86	2,177
from barbed-wire fence. Hub in center of tracks.	37 37	11 11	37.37 32.46	76 76		18.31 18.42	300 498
elephone pole 2809, 20 feet from, 100 feet from railroad crossing, near ordnance material storeroom and truck park rossroads, 50 feet south of T. H. Fleming's store door, 25 feet	37		31.45			18. 46	102
east of sweet-gum tree, 35 feet from telephone pole 2828; hub with nail	37 37	11 10	07.45 37.08			19. 83 11. 71	2,429 3,142
Magnetic declination for center of quadrangle, 5°	26'	W.		!		!	
Along highways. (By J. J. Chart	ers	in 19	18.)				
Prim. Trav. Sta. No. 16 (previously described)	37	11	47.12	76	35	34.75	
station 286, 14.22 feet from 2-inch iron pipe (landmark), 2 by 4 inch wooden hub. n southeast corner of clearing, about 250 feet east of brown painted house of F. C. Lee, about 15 feet west of wooden gate;	37	11	30.94	76	35	28. 62	1,710
painted house of F. C. Lee, about 15 feet west of wooden gate; wooden stake with nail in top. Station 296, north side of Skiffs Creek.	37 37		12.50 01.00	76 76		19. 27 04. 90	2,013 1,645
					_		

YORKTOWN QUADRANGLE——Continued.

Near Skiffs Creek.

c c							
Station.	I	atit	tude.	L	ongi	tude.	Distance between stations.
Prim. Trav. Sta. No. 18, on north side of Skiffs Creek (previously described). Station 421, on south shore of Skiffs Creek; stake in ground with	37	, 10	40.78	76	, 36	14.94	Feet.
nailin top. Station 431, 5 feet east of white witness flag; stake in ground	37	10	37. 99	76	35	56.23	1,540
with nail in top Station 437, 4 feet north of center of road, 220 feet southeast of	37	10	33.13	76	35	36.11	1,702
Sawdust pile; stake	37 37	10 10	37. 12 36. 21	76 76	35 34	17.62 58.41	1,550 1,558
Railroad azimuth (Chesapeake & Ohio), by J. J. Phelan, at Oriana (observed), 147° 47′ 57″; at Lee Hall, 147° 49′ 00″. One mile south of Williamsburg, by J. J. Charters, at Prim. Trav. Sta. No. 1, 134° 34′ 35″; at Grove station, 105° 00′ 48″(?); 50 feet from line post of York and James counties, 134° 15′ 50″.							
From Lee Hall east and north along highways.	(B ;	уJ.	J. Phe	lan i	n 19	18.)	
Hub with nail, 44.1 feet from telephone pole 2804 AA (previously							
described)	37		37.37	76	34	18.31	
Lee Hall, 1.3 miles east of, on north side of road, opposite road	37	11	35.00	76	33	57. 20	1,729
south, 15 feet north of pine tree painted "U. S. 40.6 B. M.";	37	11	34.48	76	33	27.60	2,395
described). Troad left (north). Lee Hall, 1.3 miles east of, on north side of road, opposite road south, 15 feet north of pine tree painted "U. S. 40.6 B. M."; iron post stamped "Prim. Trav. Sta. No. 35 P, 1918". Troad left (north), hub with nail about 4 inches high from ground.	-						1
Nail in root of blazed tree. 8 feet east of tree.	37	11 11	20.81 30.38	76 76	33 32	03.76 38.29	2,373 2,277
ground Nail in root of blazed tree, 8 feet east of tree. Lee Hall, 2.64 miles east of, about 500 feet east of small swampy drain south, in center of fork of woods road, in south root of pine tree 1.6 feet in diameter; iron nail and copper washer, painted "U. S. 38.9 B. M." Center of road, 7 feet from large pine tree marked "44.0"; nail in hub. Center of road, 4 feet southeast of pine tree marked "35.2"; nail in hub.							,
painted "U. S. 38.9 B. M."	37	11	34.38	76	32	12.89	2,095
in hub	37	11	34.94	76	32	03.43	767
Center of road, 4 feet southeast of pine tree marked "35.2"; nail	37	11	36. 68	76	31	54.37	753
in hub	37 37	11	40.43	76	31	48. 24	624
Intersection of T roads, hub with nail	37	11 11	41.48 43.58	76 76	31 31	42. 26 37. 83	495 416
Intersection of T roads, hub with nail. Lee Hall, 3.3 miles east of, about 300 feet west of wooden bridge over Great Bur, on porth side of road forks, blazed nine tree.							· .
1.5 feet in diameter, in south root of; iron nail and copper	07		40.74	-	0.1	20. 55	400
over Great Run, on north side of road forks, blazed pine tree 1.5 feet in diameter, in south root of; iron nail and copper washer, painted "U. S. 41.4 B. M." Intersection of T road, 30 feet from, "41.8" painted in white on			43.74	76	31	32.77	409
	37	11	48.65	76	31	39.43	733
Lee Hall, 2.1 miles northeast of, 0.1 mile south of York and Warwick county line, directly opposite T road northeast, on							ĺ
P. 1918. Elev. 52"	37	12	08.22	76	32	10.46	3,197
Lee Hall, 2.5 miles northeast of, in northeast corner of T road							'
north, in north root of walnut tree 2.3 feet in diameter; iron nail and copper washer, painted "U. S. 50.8 B. M."	37	12	25. 25	76	31	58.34	1,981
Center of 1 road, 50 feet north of gatepost with neavy chains;	37	12	48.06	76	31	47.30	2,473
hub with nail. Bridge, point 6 feet upstream. Opposite T road east. T road west, on east side of road, hub with nail. Yorktown, 1.4 miles southwest of, about 400 feet west of road forks, on west side of road 200 feet west of white frame house, in north root of pine tree 1.8 feet in diameter; iron nail and copper washer, painted "U. S. 67.2 B. M." T road west, 10 feet south of pine tree marked "61". Intersection of T road east, nail in hub. Five feet west of 15-inch pine tree, hub with nail. Verly and 1.7 miles contingers of 0.15 miles east of N. Debney's	37	12	50.10	76	31	45.62	2,473 247
Troad west, on east side of road, hub with nail	37	13 13	06. 95 13. 88	76 76	$\frac{31}{31}$	46. 40 42. 35	1,705 774
Yorktown, 1.4 miles southwest of, about 400 feet west of road forks on west side of road 200 feet west of white frame house	1						}
in north root of pine tree 1.8 feet in diameter; iron nail and	07	10	177 70	70	01	20.04	450
T road west, 10 feet south of pine tree marked "61"	37	13	17. 58 20. 28	76 76	31 31	39. 24 40. 37	450 288
Intersection of T road east, nailin hub	37 37		19. 29 25. 02	76 76	31 32	53. 54 05. 57	1,070 1,134
Torktown, 1.1 https://www.tor.to.indecastoria. Dabley S	37	10	20.02	10	02	00.01	1,101
farm residence, 50 feet east of road forks, on north side of road, in south root of pine tree 1.4 feet in diameter; iron spike,							ł
painted "U. S. 67.4 B. M." Ten feet east of 20-inch pine tree, hub with nail.	37 37	13 13	25. 19 29. 25	76 76	$\begin{array}{c} 32 \\ 32 \end{array}$	11.00 12.38	440 426
Fifteen feet from pine tree with faded trespass sign, hub with							
nail. Yorktown, 1.7 miles southwest of, on west side of road, 25 feet	37	13	30.91	76	32	13. 47	190
north of gateway through lane leading to M. Dabney's farm							
Yorktown, 1.7 miles southwest of, on west side of road, 25 feet north of gateway through lane leading to M. Dabney's farm residence; iron post stamped "Prim. Trav. Sta. No. 32 P, 1918. Elev. 69.8".	37	13	30.75	76	32	19.36	477
T road	37	13 13	39. 50 58. 01	76 76	$\frac{32}{31}$	11. 47 57. 03	1,090 2,206
The state of the s				`			, -,-

YORKTOWN QUADRANGLE—Continued.

Near Grove triangulation station. (By J. J. Charters in 1918.)

Station.	Latitude.		Latitude.			titude. Longitude.			Distance between stations.
	-	-,	,,	-	,		Feet.		
Grove triangulation station (previously described)4 by 4 inch wooden hub, on top of bank, at end of ravine leading	37	12	30.07	76	37	56.66	1.666.		
from James River.	37	12	26.63	76	37	50.05	644		
Temporary bench mark in root of big pine tree. Temporary bench mark, near road to southwest, at edge of woods, on stump. Elevation 35.5.	37		18.94	76	37	29. 89	,810		
James River, 50 feet east of east shore of, east side of road, 1 foot	37	12	09.92	76	37	27. 52	936		
out of ground; granite block	37	11	52. 81	76	37	24. 38	1,748		
South and west along highways. (By	J. J.	Ph	elan in	1918	.)				
Lee Hall, 3.3 miles east of, "U. S. 41.4 B. M.," (previously de-									
Lee Hall, 3.3 miles east of, ''U. S. 41.4 B. M.,'' (previously described). Center of bridge over Great Run Troad intersection; hub with nail.	37		43.74		31	32.77			
Jenter of pridge over Great Run	37 37	11	43. 86 48. 36	76 76	31 31	28. 44 18. 25	355 945		
I road to leit	37	ii	50. 22	76	31	09.68	719		
offeet east of road fork, 10 feet west of pine tree; hub	37	11	08.37	76	31	04. 51	4, 25		
Soficet southeast from gatepost with faded hunting sign, 35 feet	37	11	03.37	76	30	57.00	792		
north-northeast of large oak tree, 5 feet from edge of ditch South side of T road intersection; hub	37	11		76	31	06.96	874		
60 feet north of road fork			49.93	76	31		1,027		
T road	37	10	42. 58	76	31	12.50	808		
Omiles and of bridge over recornoir: iron nost stemped ((Drim	1			i					
Trav. Sta. No. 36 P, 1918". Ofeet north and west of base of engine, 35 feet southeast by east	37	10	37.81	76	31	51. 17	3, 165		
Ofeet north and west of base of engine, 35 feet southeast by east	37	10		7.0	0.1	E7 90	100		
from tree, 2.5 feet west from water; hub with nail	1.37	10	33. 57 25. 83		31	57. 38 52. 86	430 793		
T road	37		17.50		32		2,370		
Lee Hall, 2.4 miles southeast of, in northwest corner of crossroads,	1			ĺ			′		
in east root of sweet-gum tree 8 inches in diameter; iron nail and copper washer, painted "U. S. 40.2 B. M."	37	10	15.95	76	32	22. 57	244		
T road to right	37	10	14. 02	76	32	25. 83	328		
Troad to right. Troad, 15 feet south of mail box, 21 feet northeast of pine tree					-	_			
marked "U. S. 41.8 B. M." T road to right, hub with nail.	37 37	10	01.83	76 76	32	29. 81	1,275		
2.45 feet north of south rail, on north track of Chesapeake & Ohio	31	09	59.02	10	32	41.10	955		
Ry. 25 feet west of railroad-crossing sign, 20 feet east of cattle									
guard, in center of track; nail	37	09	54.60	76	33	01.52	1, 17		
Prim. Trav. Sta. No. 29 (previously located)	37	09	54. 33	76	33	22. 91	1,73		
at Reservoir station on Chesapeake & Ohio Ry	37	10	06. 08	76	33	14. 34	1,376		
East along highways to Oriana. (Unc	heck	ed :	spur lin	.e.)					
Prim. Trav. Sta. No. 27 P, 1918 (previously located)	37	07	38, 54	76	32	22, 00			
Oriana station, 500 feet north of, in center of railroad track, in westbound track, 25 feet southeast of railroad-crossing sign-	"	01	30.01	''	02	<i></i> 00			
westbound track, 25 feet southeast of railroad-crossing sign-	۱	00	05 70	70	91	35. 95	4,633		
hands sulles									
board; spike	37	US	05. 72	۱"	31	50. 50	3,000		

Magnetic declination in northeast corner of quadrangle, 5° 33' W.

121166°—23—Bull. 709——33

TRIANGULATION STATIONS.

Yorktown quadrangle.

WARWICK COUNTY.

CAMP ABRAHAM EUSTIS.

The following geographic positions on North American datum were determined by primary traverse and are based upon Coast and Geodetic Survey triangulation station Crawford and U. S. Geological Survey primary traverse stations determined in 1918.

Azimuths and distances were obtained from inverse computations from previously determined latitudes and longitudes.

The work was done by F. J. McMaugh in 1919.

TOWER NO. 1, WARWICK COUNTY, VA.

Motor Transport School, 900 feet south of curve in road at; stake at center of site of steel observation tower 105 feet high.

[Latitude 37° 09′ 00.14". Longitude 76° 35′ 20.94".]

To station—	Azimuth.	Distance.	
Tower No. 2. Tower No. 3. Tower No. 4. Tower No. 5. Tower No. 6.	336 58 48	229 18 18 156 59 32 194 55 36 156 39 05 325 51 43	Log. meters. 3.5549473 3.6640887 3.6305239 3.9226465 3.9854945

TOWER NO. 2, WARWICK COUNTY, VA.

Mulberry Point, 0.50 mile northeast of, 120 feet northeast of Coast and Geodetic Survey triangulation tablet in concrete post on shore rampart of old Fort Crawford; stake at center of site for steel observation tower.

[Latitude 37° 07' 44.59". Longitude 76° 37' 11.23".]

To station—	Azimuth.	Back azimuth.	Distance.
Tower No. 1 Tower No. 3 Tower No. 4 Tower No. 5 Tower No. 6		9 20 24 112 46 44 137 39 39 131 23 14 345 19 30	Log. meters. 3. 5549473 3. 6910244 3. 3817023 3. 9058253 4. 0287282

TOWER NO. 3, WARWICK COUNTY, VA.

Curtis Point, 1.90 miles northwest of, 0.60 mile east of main road on Mulberry Island, 200 feet east of site of farmhouse, on west bank of Warwick River; stake at center of site for steel observation tower.

[Latitude 37° 06′ 42.97". Longitude 76° 34′ 07.86".]

To station—	Azimuth.		dmuth. Back azimuth.			Distance.	
Tower No. 1 Tower No. 2 Tower No. 4 Tower No. 5 Tower No. 6	112 92 336	46 22 07	45 04 04	336 292 272 156 329		48 54 53 42 52	Log. meters. 3. 6640887 3. 6910244 3. 4635208 3. 5729940 4. 1526472

TOWER NO. 4, WARWICK COUNTY, VA.

Morrison Creek, 400 feet east of point at mouth of, 800 feet southwest of site of old farm buildings; stake at center of site for steel observation tower.

[Latitude 37° 06′ 46.85". Longitude 76° 36′ 05.52".]

To station—	Azimuth.	Back azimuth.	Distance.
Tower No. 1	92 22 04	0 / // 14 56 03 317 39 00 272 20 53 128 42 41 340 20 03	Log. meters. 3. 6305239 3. 3817023 3. 4635208 3. 7530488 4. 1094106

TOWER NO. 5, WARWICK COUNTY, VA.

Curtis Point, near end of, 130 feet southeast of old gateway; stake at center of site for steel tower.

[Latitude 37° 04′ 52.00″. Longitude 76° 33′ 06.54″.]

To station—	Azimuth.		Back azimuth.			Distance.	
Tower No. 1 Tower No. 2 Tower No. 3 Tower No. 4 Tower No. 6	131 156 128	23 07 42		336 311 336 308 330	37 20 07 40 47	44 47 04 53	Log. mcters. 3.9226465 3.9058253 3.5729940 3.7530488 4.2536414

TOWER NO. 6, WARWICK COUNTY, VA.

J. D. Dunn's house, about 500 feet southeast of, 0.25 mile south of main road, near ravine, 300 feet southeast of iron post stamped "Prim. Trav. Sta. No. 4"; stake at center of site for steel observation tower.

[Latitude 37° 13′ 19.87". Longitude 76° 39′ 00.88".]

To station—	Azimuth.	zimuth. Back azimuth.		
Tower No. 1		0 / // 145 53 56 165 20 36 149 26 49 160 21 48 150 50 47	Log. meters. 3. 9854945 4. 0287282 4. 1526472 4. 1094106 4. 2536414	