

KENTUCKY.

PRIMARY TRAVERSE.

Fords Ferry, Golconda, Kuttawa, Providence, and Smithland quadrangles.

CRITTENDEN AND LIVINGSTON COUNTIES.

The following geographic positions on Henderson astronomic datum were determined by J. H. Wilson in 1915, and are based upon United States Army Engineers' positions at Bay City and Elizabethtown, and United States Geological Survey positions previously determined by primary traverse, described in Bulletins 310 and 440.

FORDS FERRY QUADRANGLE.

Along highways through center of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
T road south, 25 feet southwest to two mail boxes.....	37 22 25.9	88 00 11.2	2,086
Repton, 2 miles southwest of, 30 feet from road forks, railroad crossing.....	37 22 15.6	88 02 00.0	8,843
Repton, 3 miles southwest of, railroad crossing.....	37 21 34.3	88 02 44.3	5,505
Marion, 2 miles northeast of, at bridge "J. E. 72-5", railroad crossing.....	37 21 18.9	88 03 11.2	2,663
Marion, $\frac{1}{4}$ mile northeast of railroad crossing.....	37 20 21.8	88 04 04.3	7,197
Marion, in northeast corner of Crittenden County courthouse yard; iron post stamped "Prim. Trav. Sta. No. 1, 1915".....	37 20 04.2	88 04 49.4	4,055
Marion, 1.40 miles west of, 25 feet northeast of wire fence, T road.....	37 19 48.2	88 06 21.2	7,587
Marion, 2.10 miles west of, 45 feet northwest of mail box No. 2, road forks.....	37 19 47.7	88 07 06.5	3,655
Marion, 3.80 miles west of, 50 feet southeast of telephone pole No. 60, road forks.....	37 20 51.5	88 08 22.8	8,920
Marion, 4.70 miles west of, 18 feet west of west end of bridge over Hurricane Creek, at road leading up to Mary Bell mine; road forks.....	37 20 48.9	88 09 19.3	4,573
Hurricane Creek, 0.87 mile west of, at top of ridge, road forks.....	37 20 45.6	88 10 15.8	4,575
Hurricane Creek, 1.90 miles west of, at white house, road forks.....	37 21 10.2	88 11 16.0	5,454
Sheridan, road forks at store.....	37 21 13.1	88 11 57.9	3,400
Sheridan, 1 mile northwest of, just east of Deer Creek church, at G. D. Humphrey's mail box, road forks.....	37 21 51.3	88 12 44.8	5,410
Sheridan, 1.50 miles northwest of, at sign, "Posted by R. L. Williams," on tree road forks.....	37 22 00.0	88 13 16.9	2,737
Sullingers schoolhouse, about 900 feet north of, 415 feet north of T road east, 20 feet east of intersection of Salem-Tolu and Lola-Tolu roads; iron post stamped "Prim. Trav. Sta. No. 2, 1915".....	37 22 08.7	88 14 23.0	5,404

Along highways near Ohio River.

Wooden bridge over creek, 100 feet south of, road north.....	37 26 29.7	88 13 34.7	.....
Elm tree, at fence corner, 15 feet north of, center of road at gate in fence.....	37 26 29.7	88 12 29.7	5,247
Sycamore tree, on south side of road, 25 feet east of, at crossing of small creek, center of road.....	37 26 36.7	88 11 18.3	5,803
John Shaffer's residence, about 300 feet west of, 45 feet east of locust tree with board showing high-water mark of Apr. 5, 1913, road forks.....	37 26 44.9	88 10 32.1	3,817
Second-class crossroads at top of hill, oak tree in center of triangle.....	37 26 43.1	88 09 49.4	3,444
Casad post office, northeast corner of porch of J. E. Phillips & Co.'s store.....	37 26 48.4	88 09 04.0	3,707
Casad post office, 0.80 mile east of, T road west.....	37 26 57.4	88 08 14.0	4,128
Casad post office, 1.40 miles northeast of, 20 feet north of crooked walnut tree on east side of road, T road west.....	37 27 20.4	88 07 47.2	3,186
Fords Ferry, 70 feet south of T road east, on east side of north and south road, 2 feet west of northwest corner of post-office yard; iron post stamped "Prim. Trav. Sta. No. 8, 1915".....	37 28 01.6	88 06 34.5	7,192

FORDS FERRY QUADRANGLE—Continued.

Along highways near Ohio River—Continued.

Station.	Latitude.	Longitude	Distance between stations.
Fords Ferry, 0.80 mile east of, 700 feet northwest of W. L. Clements residence, 50 feet south of river bank and on the west side of a small creek, large sweet-gum tree; nail in blaze on west side and 3 feet above ground.....	° ' "	° ' "	
Weston, 0.40 mile west of, prominent pointed rock, on rocky point, rock is black around base and has a scratch mark on river side...	37 28 05.0	88 05 40.9	Feet. 4,331
Weston, locust tree at center of cross streets (described before as an elm tree, but there is no question but that the locust tree was located).....	37 28 18.2	88 04 43.8	4,797
	37 28 27.7	88 04 18.9	2,229

Along highways near west border of quadrangle.

Tolu, on north side of east and west street, 7 feet north and 12 feet west of northwest corner of Southern Methodist Church, Farmers & Merchants Bank on northeast corner; iron post stamped "Prim. Trav. Sta. No. 7, 1915".....	37 26 08.8	88 14 42.6	
Tolu, 0.90 mile south of, center of triangle at road forks.....	37 25 22.6	88 14 42.1	4,683
Tolu, 3.40 miles south of, road forks at cemetery.....	37 23 28.1	88 14 58.9	
Liberty Grove Church, about 300 feet southwest of, just north of house, road forks.....	37 21 18.9	88 14 14.8	
Liberty Grove Church, 1.20 miles south of, at A. L. Cooper's mail box, road forks.....	37 20 15.7	88 14 14.5	6,390
Pleasant Grove schoolhouse, 400 feet north of, 700 feet south of crossroads at foot of hill, on hillside, crossroads.....	37 19 47.6	88 14 01.2	3,040
Pleasant Grove schoolhouse, 1.70 miles south of, five mail boxes on wheel, center of crossroads.....	37 18 21.6	88 13 54.7	8,714
Salem, 1 mile northeast of, 20 feet southeast of "American Lady Shoe" sign on oak tree, road forks.....	37 16 45.0	88 14 13.7	9,887
Salem, at northwest corner of crossroads, on bank; iron post stamped "Prim. Trav. Sta. No. 3, 1915".....	37 15 57.8	88 14 35.6	5,098
Salem, 0.86 mile south of, 20 feet southwest to telephone pole, road forks.....	37 15 32.1	88 13 49.8	4,532

Along highways near south border of quadrangle.

J. I. Clements residence, just south of T road forks.....	37 15 04.2	88 07 33.4	
Enon, 2 miles west of, four mail boxes on revolving frame at southwest corner of crossroads; center of crossroads.....	37 15 01.1	88 01 02.9	

Magnetic declination on north border of quadrangle $4^{\circ} 20'$ E.; on south border, $4^{\circ} 26'$ E.; on east border, $4^{\circ} 27'$ E.; on west border, $4^{\circ} 42'$ E.; in center, $4^{\circ} 35'$ E.

GOLCONDA QUADRANGLE.

Along highways through center of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
Golconda (in Illinois), in northwest corner of courthouse yard, and 71 feet northwest of U. S. A. Engineers' bench mark, in center of triangle formed by supports of city fire bell; iron post stamped "Prim. Trav. Sta. No. 10, 1913 Illinois".....	° ' "	° ' "	Feet.
Comptons Landing, in fence line, on north side of road, and at edge of river bank; flagstaff.....	37 22 05.0	88 29 02.8	
Comptons Landing, 0.68 mile east of, crossroads.....	37 21 19.0	88 28 21.6	5,729
Comptons Landing, 1.40 miles northeast of, at road leading to Middle Landing, road forks.....	37 21 14.1	88 27 37.5	3,600
Berry Ferry, 60 feet south of southeast corner of post-office porch, center of road forks.....	37 21 49.5	88 27 31.4	3,610
Berry Ferry, 0.90 mile northeast of, 180 feet south of small iron bridge, 25 feet north and 15 feet east of mail box, road forks.....	37 22 20.4	88 27 32.0	3,110
Berry Ferry, 1.45 miles northeast of, center of road at second-class crossroads between house and barn.....	37 23 02.7	88 27 06.5	4,737
Berry Ferry, 2.70 miles northeast of, 180 feet southeast of right-angle turn in road, at road leading through gate to edge of river, just west of house, T road southwest.....	37 23 31.5	88 27 08.4	2,914
	37 24 27.4	88 26 23.1	6,724

GOLCONDA QUADRANGLE—Continued.

Along highways through center of quadrangle—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
McElroy Landing, 1.30 miles southwest of, 180 feet east of second-class road at gate, just east of small pond, west end of small iron bridge.....	37 24 48.5	88 25 00.4	7,002
McElroy Landing, about 200 feet south of, center of road at gate (there is no road to landing, only a path through cornfield).....	37 24 58.3	88 23 38.8	6,653
McElroy Landing, 0.50 mile southeast of, center of iron bridge over small creek.....	37 24 44.3	88 23 11.5	2,632
Carrsville, at southeast corner of crossroads at Albert Boyd's store, first cross streets south of river and post office; iron post stamped "Prim. Trav. Sta. No. 6, 1915".....	37 23 58.1	88 22 20.5	6,227
Carrsville, 0.70 miles southeast of, 270 feet west of house on hillside on north side of road, at second-class road, gate.....	37 23 39.4	88 21 39.5	3,814
Carrsville, 1.34 miles southeast of, just west of creek, road forks.....	37 23 26.3	88 21 02.5	3,265
Carrsville, 2.14 miles southeast of, about 600 feet west of old mine at top of ridge, between white oak tree on north side and gate on south side of road, center of road.....	37 23 19.8	88 20 11.1	4,202
Carrsville, 2.90 miles southeast of, 25 feet northeast of corner of picket fence, 30 feet northwest of intersection of wire fence and rail fence, 30 feet south of road.....	37 23 13.4	88 19 21.0	4,095
Crawford schoolhouse, opposite front door, center of road.....	37 22 51.6	88 19 08.2	2,443
Crawford schoolhouse, 0.90 mile southeast of, 100 feet east of road south, 10 feet east of intersection of wire and picket fences, second-class road east, road forks.....	37 22 10.2	88 18 37.9	4,859
Deer Creek, center of ford at Livingston-Crittenden county line.....	37 21 59.8	88 18 06.2	2,770
Deer Creek, 0.66 miles southeast of ford at, in front of W. H. Clark's residence, telephone pole.....	37 21 42.4	88 17 29.0	3,480
Deer Creek, 1.50 miles southeast of ford at, center of bridge.....	37 21 33.5	88 16 33.3	4,585
Sullingers schoolhouse, 1.10 miles west of, in front of mail box No. 51, road forks.....	37 22 16.7	88 15 43.3	5,940

Along highways near west border of quadrangle.

Bay City (in Illinois), 70 feet north of Glass's store, 30 feet west of center of north and south road, U. S. Army Engineers' benchmark post.....	37 15 03.1	88 20 47.6	.....
Bay City, 0.75 mile northeast of, lane southwest to cornfield, in river bottom at Threlkeld's residence.....	37 15 21.6	88 29 03.3	3,982
Bay City, 2.16 miles northeast of, second-class road through gate to river bottom, road forks.....	37 16 30.9	88 29 34.6	7,465
Bay City, 2.70 miles north of, 100 feet east of house with whitewashed front, road forks at road east.....	37 16 35.2	88 29 03.1	2,575
Bay City, 3.60 miles north of, on east bank of bayou, forked cypress tree.....	37 17 13.2	88 29 35.1	4,639
Comptons Landing, 3.90 miles south of, right-angle turn in road, at road west to river bottom, 25 feet north of "No Hunting" sign by O. Kuebler.....	37 18 09.3	88 28 53.3	6,610
Comptons Landing, 2.90 miles south of, about 300 feet southwest of a house and 150 feet west of another house, at road west through gate to river bottom, crossroads.....	37 18 58.9	88 28 33.5	5,278
Comptons Landing, 0.90 mile southeast of, 60 feet east of gate, 10 feet south of oak tree, near bend in road, road forks.....	37 20 40.6	88 27 49.7	10,886

Along highways near south border of quadrangle.

Sandy Creek, south end of bridge over.....	37 15 53.2	88 16 12.3	.....
Center of crossroads, 15 feet west of wooden culvert.....	37 15 53.6	88 16 45.7	2,688
Old Salem schoolhouse and church, wooden culvert at road forks between.....	37 15 58.7	88 17 24.0	3,135
O. T. English's and C. C. Alsobrook's mail boxes.....	37 15 24.9	88 18 42.5	7,202
G. W. Riddle's mail box, 230 feet west of, 20 feet north of telephone pole No. 2560, T road north.....	37 15 15.3	88 19 50.4	5,567
T road southeast, just west of three mail boxes.....	37 15 02.0	88 20 22.3	2,902
Road forks, T road north.....	37 15 10.0	88 25 37.2	.....
Culbert schoolhouse, at northeast corner of yard, road forks.....	37 15 09.2	88 26 13.7	2,948
McMurray's chapel, 700 feet northeast of, T road southwest.....	37 15 33.5	88 26 57.3	4,294
McMurray's chapel, 0.90 mile southwest of, T road east.....	37 15 00.4	88 27 39.1	4,743
L. Highfill mail box (No. 68), 25 feet south of, at top of rise, road forks.....	37 24 05.7	88 15 24.5	.....
Mail box No. 69, near second-class road forks.....	37 24 47.8	88 15 20.9	4,280
Tolu, 1 mile southwest of, $\frac{1}{2}$ mile northeast of J. L. Franklin's brick residence, road forks.....	37 25 48.0	88 15 04.7	.....

GOLCONDA QUADRANGLE—Continued.

Along highways in northeast quarter of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
J. A. Worley's mail box (No. 3), 25 feet east and 25 feet north of, at top of ridge, oak tree at second-class road fork.....	° ' "	° ' "	Feet.
Fred Hill's residence, about 400 feet south of, at forks of road, C. E. Donakey's mail box.....	37 25 47.0	88 16 24.8	6,463
Concrete bridge, in Ohio River bottom.....	37 25 20.7	88 17 07.3	4,328
Elizabethtown, at landing opposite, pole with ferry bell and flag.....	37 25 52.6	88 17 25.8	3,565
Elizabethtown (in Illinois), on limestone point on bank of river, directly in front of Rose House, 5 feet west of summer house, a triangle and letters "U. S." cut in solid rock, U. S. Engineers' base-line triangulation station	37 26 05.1	88 18 21.9	4,704
	37 26 46.2	88 18 11.8	4,240

Magnetic declination along north border of quadrangle, $4^{\circ} 32'$ E.; along south border, $4^{\circ} 25'$ E.; along east border, $4^{\circ} 42'$ E.; along west border, $4^{\circ} 25'$ E.; in center, $4^{\circ} 34'$ E.

KUTTAWA QUADRANGLE.

Along highways near north border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
Dry Creek, center of bridge over.....	° ' "	° ' "	Feet.
S. L. Shelby's store, 40 feet southeast of corner of store porch.....	37 14 50.0	88 12 51.4	
J. C. Kinsolving's house, 250 feet south of, T road west.....	37 14 19.7	88 12 38.8	3,226
Emmaus Church, about 800 feet northeast of, 100 feet west of covered bridge over Clay Lick Creek, road forks.....	37 14 12.6	88 11 55.5	3,575
Emmaus Church, 1.20 miles east of, 20 feet east of mail box No. 35A, road forks.....	37 14 51.2	88 10 37.9	7,397
J. A. Patton's mail box, at road southwest, about 500 feet east of road, northeast.....	37 14 55.8	88 08 55.4	8,303
Mexico, about 0.30 mile north of depot, 150 feet east of J. T. Nelson's store, 60 feet west of T road south, center of east and west road, at railroad crossing.....	37 14 16.8	88 06 27.5	.....
Fredonia, about 1.50 miles northwest of, 25 feet south and 30 feet west of T. W. Young's mail box (No. 13), in triangle formed by intersection of Marion-Fredonia State road and Salem-Fredonia road; iron post stamped "Prim. Trav. Sta. No. 4, 1915".....	37 14 11.8	88 05 35.3	4,253
Fredonia, about 1.50 miles northeast of, opposite front gate of residence of Joe Guess, center of Enon-Fredonia road.....	37 13 56.4	88 04 48.4	4,100
	37 14 06.6	88 02 09.5	12,910

Magnetic declination along north border of quadrangle $4^{\circ} 26'$ E.

PROVIDENCE QUADRANGLE.

Along highway near west border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
Repton and Tribune, crossroads halfway between, in northwest corner of R. Newcomb's farm; nail in blaze on walnut tree bears S. $81^{\circ} 45'$ E., 112.9 feet, nail in blaze on small oak bears S. 89° W., 34 feet; iron post stamped "Prim. Trav. Sta. No. 15, 1906".....	° ' "	° ' "	Feet.
Enon, at northeast corner of church, just south of T road east.....	37 22 35.1	87 59 48.1	.....
Enon, Walnut Grove church, at corner of old Polk farm, at T lane northeast, about $\frac{1}{4}$ mile northeast of Enon; nail in small black oak bears S. $79^{\circ} 25'$ E., 13.3 feet, T road northeast bears S. $28^{\circ} 30'$ E., 35 feet; iron post stamped "Prim. Trav. Sta. No. 16, 1906".....	37 15 15.7	87 59 21.8	.....
	37 15 34.1	87 58 43.9	3,585

SMITHLAND QUADRANGLE.

Along highways near north border of quadrangle.

Station.	Latitude.	Longitude.	Distance between stations.
Burna, 160 feet northeast of post office, T road southwest.....	37 14 48.2	88 21 33.0	Fct.
Burna, 0.58 mile southwest of, on east side of north and south road at T road west; iron post stamped "Prim. Trav. Sta. No. 5, 1915".....	37 14 22.2	88 21 52.5	3,063
Burna, 2 miles west of, 110 feet east of bridge over small creek, T road north.....	37 14 43.5	88 23 24.1	7,712
Burna, about 2.50 miles west of, at Midway schoolhouse, center of road forks.....	37 14 42.7	88 23 54.6	2,463
Midway schoolhouse, about 0.40 mile west of, 75 feet north of road forks at road leading up creek, road forks at road leading down creek.....	37 14 44.7	88 24 22.2	2,234
Bayou, 115 feet northeast of post office, T road forks.....	37 14 47.5	88 24 31.4	.....

Magnetic declination along north border of quadrangle $4^{\circ} 25' E.$

TRIANGULATION STATIONS.

Goodloe, Inez, and Paintsville quadrangles.

FLOYD, JOHNSON, MAGOFFIN, AND MORGAN COUNTIES.

In the summer of 1915 C. L. Nelson extended triangulation over the above-named quadrangles, starting from Collins Rock, Porter, and Standifer stations, on North American datum.

In addition to reoccupying these three stations, Mr. Nelson occupied five stations and located four points by intersections.

BRUSH CREEK, FLOYD COUNTY, KY. (Not occupied.)

Flag in top of oak tree, at head of Grassy Creek. Station was not occupied, but it is fairly open and can be occupied by topographer.

Station mark: Oak signal tree.

[Latitude $37^{\circ} 30' 55.95''$. Longitude $82^{\circ} 53' 25.04''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
Quicksand.....	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Hicks.....		6 36 27.40	3.6900908	3.044
Collins Rock.....		91 17 15.90	3.5735542	2.328
			4.0140178	6.418

COE FLAG, MAGOFFIN COUNTY, KY. (Not occupied.)

Flag in 8-inch black oak on top of knob on property of Albert Coe at head of Puncheon Creek, Gun Creek, and Big Ditch Fork of Middle Creek. Flag is about $1\frac{1}{2}$ miles south of Ivyton.

Station mark: Center of oak signal tree.

[Latitude $37^{\circ} 40' 53.57''$. Longitude $82^{\circ} 58' 09.39''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
Preston.....	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
Webb.....	200 57 57.88 254 37 00.05	20 59 45.84 74 40 53.82	4.0815157 3.9874018	7.497 6.036

COLLINS ROCK, FLOYD COUNTY, KY.

On a high cleared knob between the forks of Beaver Creek and about 4 miles above their junction. It is at head of Turkey Branch and Henry Branch of Right Fork of Beaver Creek, and may be reached from either fork.

Signal: Quadriod of usual form set on center.

Station mark: Aluminum-bronze tablet set flush in solid rock.

Reference marks: (1) Chisel mark (+) on rock; distance 8.28 feet, true azimuth $188^{\circ} 29'$. (2) Chisel mark (+) on rock; distance 7.20 feet, true azimuth $285^{\circ} 04'$. (3) Chestnut oak 20 inches in diameter; distance 24.74 feet, true azimuth $32^{\circ} 28'$.

Aluminum tablet had been destroyed. It was replaced by bronze tablet.

[Latitude $37^{\circ} 30' 48.63''$. Longitude $82^{\circ} 46' 24.59''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Quicksand.....	76 59 28.24	256 53 45.71	4.1519805	8.817
Hueysville.....	83 35 00.41	263 32 55.69	3.7043490	3.146
Brushey Creek.....	91 17 15.90	.....	4.0140178	6.418
Hicks.....	111 47 04.01	291 42 58.59	4.0273465	6.618
Preston.....	156 38 01.26	336 32 38.57	4.5131857	20.255
Webb.....	159 35 23.88	339 32 07.02	4.3550107	14.072
Porter.....	190 47 10.23	10 49 01.29	4.3766449	14.791
Ivy.....	236 52 40.17	58 58 25.18	4.2101409	10.081
Stratton.....	276 33 27.16	96 45 00.29	4.4496061	17.497

HUEYSVILLE, FLOYD COUNTY, KY. (Not occupied.)

Flag set on rock and braced by branches of tree on knob, about 1 mile east of Hueysville and 1 mile southeast of junction of Brush Creek and Right Fork of Beaver. Station can be occupied.

Station mark: Old bolt was found set in rock at foot of flag.

[Latitude $37^{\circ} 30' 30.23''$. Longitude $82^{\circ} 49' 49.41''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Hicks.....	132 52 57.38	312 50 57.49	3.8218690	4.123
Collins Rock.....	263 32 55.69	83 35 00.41	3.7043490	3.146

MILLERS FLAG, MAGOFFIN COUNTY, KY. (Not occupied.)

Station mark: Flag in oak tree on top of knob, about 1 mile east of Millersville, on Mine Fork.

[Latitude $37^{\circ} 48' 20.84''$. Longitude $82^{\circ} 59' 40.09''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Peach Orchard.....	.....	.....	4.2731041	11.654
Preston.....	354 07 31.97	111 08 17.19	3.8454842	4.353

NELSON, LAWRENCE COUNTY, KY.

On a cleared knob between the right and left forks of George Creek, about 2 miles northeast of Lowmansville. It can be reached from Jim Bryant's place on Nelson Branch of Left Fork.

Station mark: Bronze triangulation tablet countersunk and cemented in rock.

Reference marks: (1) Chisel mark (+) on rock, distance 16.90 feet, true azimuth $155^{\circ} 26'$; (2) chestnut tree 18 inches in diameter, distance 23.20 feet, true azimuth $150^{\circ} 38'$.

Signal: Quadripod of usual form set on center.

[Latitude $37^{\circ} 57' 16.485''$. Longitude $82^{\circ} 43' 56.125''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Preston.....	41 02 33.497	220 55 38.039	4.4017842	15.672
Peach Orchard.....	94 59 20.446	274 48 51.496	4.3987861	15.565
Anthony.....	282 53 32	193 08 52	4.57015	23.094
Hurricane.....	311 34 37.004	131 43 24.455	4.4487441	17.462
Standifer.....	346 34 12.267	166 35 52.653	4.2360553	10.701

PEACH ORCHARD, MORGAN COUNTY, KY.

On partly cleared knob at head of Fife Branch of Blain Creek, on the property of Leo Skags. Reached via Big John Ferguson's place on Open Fork of Paint Creek.

Signal: Quadripod of usual form set over center.

Station mark: Bronze tablet in rock set in ground.

Reference marks: (1) White-oak stump of old signal tree 36 inches in diameter, 107 feet distant, true azimuth $2^{\circ} 50''$; (2) oak tree, 14 inches in diameter, leaning toward north, 186 feet distant, true azimuth $45^{\circ} 49''$; (3) peach tree 8 inches in diameter, 19 feet distant, true azimuth $93^{\circ} 33'$.

[Latitude $37^{\circ} 58' 25.91''$. Longitude $83^{\circ} 00' 58.52''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Nelson.....	274 48 51.496	94 59 20.446	4.3987861	15.565
Standifer.....	303 00 00.177	123 12 08.423	4.5389719	21.494
Preston.....	338 13 47.576	158 17 19.771	4.3579744	14.169
Millers Flag.....	354 07 31.966	... .. .	4.2731041	11.654

PORTER, FLOYD COUNTY, KY.

On an east-west ridge on the north side of Johns Creek about 2.5 miles (air line) above the mouth, between the properties of Lee Hall and John Porter. Station is best reached by following ridge to east from residence of William Nesbit.

Signal: Quadripod of usual form set over center.

Station mark: Aluminum triangulation tablet countersunk and cemented in solid rock.

Reference marks: (1) Chisel mark (+) on rock, distance 7.95 feet, true azimuth $304^{\circ} 47'$; (2) chisel mark (+) on rock, distance 10.65 feet, true azimuth $59^{\circ} 10'$.

[Latitude $37^{\circ} 43' 27.06''$. Longitude $82^{\circ} 43' 22.69''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Collins Rock.....	10 49 01.29	100 47 10.23	4.3766449	14.791
Hicks.....	36 27 58.29	216 22 01.20	4.3829495	15.007
Webb.....	80 07 17.98	260 02 09.48	4.0982839	7.792
Preston.....	110 39 05.94	290 31 51.08	4.2688842	11.541
Standifer.....	199 49 57.77	19 51 17.42	3.9721055	6.827
Flag.....	289 42 03.94	109 50 31.89	4.3350551	13.440
Brandy Keg.....	327 25 39.25	147 27 08.20	3.8209275	4.114
Ivy.....	327 51 40.30	147 55 34.98	4.2484148	11.009

PRESTON, JOHNSON COUNTY,

On cleared knob at head of Barnett Creek, about 7 miles southwest of Paintsville. It can be reached by way of Will Blair's residence on Barnett Creek.

Signal: Chestnut-oak tree 10 inches in diameter which forms southern support for observing structure 20 feet high. Tree is 7.8 feet distant; true azimuth $0^\circ 55'$.

Station mark: Bronze tablet in rock set in ground.

Reference marks: Fence corner between properties of Blair, Blanton, and Salyers, distance 30.8 feet, true azimuth $110^\circ 55'$; black-oak tree, 1 foot in diameter, on fence line between Salyers's and Blairs's properties, distance 167 feet, true azimuth $177^\circ 10'$; stump of old signal tree; large chestnut tree 4 feet in diameter, distance 44.6 feet, true azimuth $319^\circ 35'$.

[Latitude $37^\circ 46' 58.93''$. Longitude $82^\circ 55' 12.93''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
Quicksand.....	° ' "	° ' "	4.5202281	20.586
Coe Flag.....	1 27 44.74	181 27 23.73	4.0815157	7.497
Miller's Flag.....	20 59 45.84	200 57 57.88	3.8458482	4.353
Peach Orchard.....	111 08 17.19	338 13 47.57	4.3579744	14.169
Nelson.....	158 17 19.77	41 02 33.49	4.4017842	15.672
Standifer.....	220 55 38.04	83 43 07.80	4.3156842	12.854
Porter.....	263 34 32.86	110 39 05.94	4.2688842	11.541
Webb.....	290 31 51.08	149 54 15.80	4.0021168	6.244
Collins Rock.....	329 52 09.76	156 38 01.26	4.5131857	20.255
Hicks.....	336 32 38.57	173 15 27.24	4.4174560	16.248

QUICKSAND, FLOYD COUNTY,

On a high ridge separating the headwaters of Quicksand Creek from Salt Lick Creek, 3 miles northwest of Hippo post office.

Station mark: Bowlder in ground, in top of which is cemented a bronze triangulation tablet.

Reference marks: (1) Chestnut-oak tree 2 feet in diameter; distance 6.6 feet, true azimuth $165^\circ 04'$; (2) position of former signal tree and station mark (recently blown down); distance 13 feet, azimuth $16^\circ 00'$.

Old stone with tablet had been removed; replaced by bronze tablet in stone set in ground in same position.

Latitude $37^\circ 29' 04.65''$; longitude $82^\circ 55' 47.34''$ from north. Latitude $37^\circ 29' 04.52''$; longitude $82^\circ 55' 47.19''$ from south.]

To station—	Azimuth.	Back azimuth.	Distance.	
	° ' "	° ' "	Log. meters.	Miles.
From north:				
Preston.....	° ' "	° ' "	4.5202281	20.586
Collins Rock.....	181 27 23.727	1 27 44.742	4.1519805	8.817
From south:				
Lost.....	256 53 45.712	76 59 28.238		
Frazier.....	50 37 18.14	230 28 01.35	4.4653955	18.145
Beaver.....	291 47 34.35	111 57 06.21	4.3984679	15.482
Walnut.....	323 30 08.82	143 37 19.47	4.4981256	18.259
	350 29 56.16	170 31 19.40	4.3106744	12.706

STANDIFER, JOHNSON COUNTY.

On a high cleared knob between main Greasy Creek and Pigeon Roost Fork, at head of Buffalo Creek. It can be reached from Greasy Creek or from Pigeon Roost Fork.

Signal: 26-inch chestnut, oak tree; distance 7.8 feet, true azimuth $127^{\circ} 13'$.

Station mark: Aluminum tablet countersunk and cemented in sandstone 28 by 20 by 14 inches.

[Latitude $37^{\circ} 48' 13.17''$. Longitude $82^{\circ} 41' 12.63''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
Porter.....	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
	19 51 17.37	199 49 57.72	3.9721055	5.827
Webb.....	54 47 16.462	234 40 48.050	4.2792061	11.818
Preston.....	83 43 07.803	263 34 32.858	4.3156842	12.854
Peach Orchard.....	123 12 08.423	303 00 00.177	4.5389719	21.494
Nelson.....	166 35 52.653	346 34 12.267	4.2360553	10.701
Hurricane.....	276 23 42.60	96 30 48.92	4.2337179	10.643
Brandy Keg.....	358 29 57.29	178 30 06.71	4.1585556	8.952

WEBB, FLOYD AND JOHNSON COUNTIES.

Cleared hill about 1 mile north of Bonanza on Abbott Creek. Best reached by going up Conley Branch about half a mile and climbing spur. Properties of Dutch Webb, B. A. Conley, and Thomas Stanley join on the hill.

Signal: Hickory tree, 14 inches in diameter, distance 5.8 feet, true azimuth $190^{\circ} 48'$. Tree leans so that flag in tree is directly over station. (All angles were read to flag.)

Station mark: Bronze tablet in stone 6 by 8 by 14 inches, set in ground.

Reference marks: (1) Property corner between B. A. Conley, Dutch Webb, and Thomas Stanley, distance 207 feet, true azimuth $328^{\circ} 44'$; (2) black-gum tree, 10 inches in diameter, distance 102 feet, true azimuth $35^{\circ} 59'$.

[Latitude $37^{\circ} 42' 16.98''$. Longitude $82^{\circ} 51' 47.00''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
Hicks.....	° ' "	° ' "	<i>Log. meters.</i>	<i>Miles.</i>
	6 31 20.98	186 30 31.86	4.2402324	10.804
Coe Flag.....	74 40 53.82	254 37 00.049	3.9874018	6.036
Preston.....	149 54 15.80	329 52 09.76	4.0021168	6.244
Standifer.....	234 40 48.050	54 47 16.462	4.2792061	11.818
Porter.....	260 02 09.480	80 07 17.983	4.0982239	7.792
Collins Rock.....	339 32 07.126	159 35 23.885	4.3550107	14.072

HICKS, FLOYD-MAGOFFIN COUNTIES, KY.

Cleared knob at head of Left Fork of Middle Creek and Brushy Fork of Licking River. Station is near north edge of large flat sandstone rock, on highest part of knob, where properties of James Allen, John M. Hale, and Smith Hicks corner.

Signal: Tall pine 18 inches in diameter, distant 28.1 feet, true azimuth $168^{\circ} 35'$.

Station mark: Aluminum tablet set in rock in place.

Reference marks: (1) Chestnut-oak tree, 2 feet in diameter, separating into two trunks 6 feet from ground, distant 47.7 feet, true azimuth $351^{\circ} 12'$; (2) cross chiseled in rock, distant 7.5 feet, azimuth $355^{\circ} 22'$; (3) cross chiseled in rock, distant 12.5 feet, azimuth $48^{\circ} 35'$.

[Latitude $37^{\circ} 32' 56.64''$. Longitude $82^{\circ} 53' 07.46''$.]

To station—	Azimuth.	Back azimuth.	Distance.	
Preston.....	173 15 27.24	353 14 10.58	Log, meters.	Miles.
Webb.....	186 30 31.86	6 31 20.98	4.4174560	16.248
Porter.....	216 22 01.20	36 27 58.30	4.2402324	10.804
Collins Rock.....	291 42 58.59	111 47 04.02	4.3829495	15.007
Hueysville.....	312 50 57.49	132 52 57.38	4.0273465	6.618
Brush Creek.....			3.8218690	4.123
			3.5735542	2.328

TENNESSEE AND ARKANSAS.

PRIMARY TRAVERSE.

SHELBY COUNTY, TENN.; CRITTENDEN COUNTY, ARK.

Bartlett and Memphis quadrangles.

The following geographic positions were determined by F. W. Crisp in 1915, and are based upon United States Coast and Geodetic Survey triangulation stations, Exchange, Hopefield, South Base, and Weaver, North American datum:

MEMPHIS QUADRANGLE.

Along highways and Yazoo & Mississippi Valley Railroad

Station.	Latitude.	Longitude.	Distance between stations.
TENNESSEE.			
Exchange triangulation station, a Coast and Geodetic Survey station in the city of Memphis, on the top of the Cotton Exchange Building on the corner of Second and Madison streets. A standard station mark was set flush with the surface of the concrete roof in the southeast corner of the building, 1.38 meters from the inside of the cornice on the Second Street side and 1.48 meters from the inside of the cornice on the Madison Street side, and 3.08 meters from the center of the iron flagpole.....	35 08 42.05	90 03 04.85	.....
Memphis, Third and Union avenues, intersection of.....	35 08 33.1	90 03 02.8	919
Memphis, Third and Linden avenues, intersection of.....	35 08 14.6	90 03 03.8	1,875
Memphis, South Third Street and East Georgia Avenue, intersection of.....	35 07 44.9	90 03 06.5	3,017
Memphis, intersection of southbound main track of Yazoo & Mississippi Valley R. R. and northbound main track of Chicago, Rock Island & Pacific Ry.....	35 07 36.9	90 03 34.4	2,456
Memphis, center of southbound Illinois Central R. R. track and center of Iowa Avenue where it crosses under railroad.....	35 07 28.6	90 03 34.4	840
Memphis, intersection of southbound track Illinois Central R. R. and McLemore Avenue.....	35 06 57.9	90 03 26.7	3,172
Memphis, center of main track Yazoo & Mississippi Valley R. R. under center of viaduct on speedway.....	35 06 27.6	90 03 27.3	3,070
Memphis, Rayburn Street, center of main track Illinois Central R. R. and electric railway.....	35 05 51.2	90 03 44.9	3,955
Horn Lake Road, center of track at intersection with, 35 feet southeast to milepost, "Memphis, 3 miles".....	35 05 33.2	90 04 01.3	2,276
McLean lumberyard, 635 feet south of, under Yazoo & Mississippi Valley R. R. crossing.....	35 05 07.6	90 04 24.5	3,225
Noncanah Creek, iron bridge over, center of track.....	35 04 48.2	90 04 42.1	2,452
West Junction station, 20 feet southeast of, 15 feet west of center of main track, 35 feet north of tall switchstand at north end of Yazoo R. R. loop; iron post stamped "Prim. Trav. Sta. No. 1, 1915".....	35 04 03.4	90 05 23.8	5,701
Milepost "Memphis 6 miles," center of track at.....	35 04 02.8	90 06 20.5	4,703
Ensley, flag station, center of track at road crossing.....	35 04 06.8	90 07 35.2	6,221
Ensley, flag station, 0.90 mile southwest of, center of track at second-class road crossing.....	35 03 20.1	90 07 49.8	4,876
Ensley station, 2.24 miles south of, center of second-class road crossing at west loop of Yazoo & Mississippi Valley R. R.....	35 02 11.5	90 07 46.7	6,938
Weaver triangulation station, a Coast and Geodetic Survey station about 8½ miles south of west from Court Square, Memphis, 4 miles west of south from West Junction, and 2 miles north from Darwin railroad station, on the highest knoll on the Weaver farm, in a cultivated field, near the bluff overlooking the Mississippi River bottom, about ¼ mile east from the west line of the loop of the Yazoo & Mississippi Valley R. R. The ends of the loop are at West Junction and Darwin, 1 mile west from the east line of this railroad, about 40 meters west from the "Bluff Road," which runs north and south near the bluffs through the Weaver plantation. Mark: Standard disc.....	35 02 24.82	90 07 35.61	1,631

MEMPHIS QUADRANGLE—Continued.

Along highways and Yazoo & Mississippi Valley Railroad—Continued.

Station.	Latitude.	Longitude.	Distance between stations.
Fields Avenue at intersection with T road north.....	35 02 58.4	90 06 49.3	5,133
Fields Avenue, center of track at railroad crossing.....	35 02 58.7	90 06 11.6	3,130
Mount Pisgah Baptist Church, T road west at.....	35 02 58.8	90 05 46.9	2,050
Mount Pisgah Baptist Church, 0.50 mile south of T road east.....	35 02 32.8	90 05 46.6	2,634
Levi Avenue, center of intersection with T road south.....	35 02 34.2	90 04 40.7	5,478
Horn Lake road, intersection with T road west.....	35 02 34.3	90 04 09.6	2,583
Horn Lake road, intersection with T road east.....	35 02 07.3	90 04 10.8	2,728
Horn Lake road, intersection with Lake View road.....	35 01 56.2	90 04 11.2	1,127
Horn Lake road, intersection with crossroad at mail box No. 109, belonging to J. B. Bulford.....	35 01 15.5	90 04 04.3	4,152
Whitehaven, 0.20 mile north of station, 60 feet east of center of Illinois Central R. R. track, 5 feet south of intersection with T road north, 270 feet southeast of milepost "N. O. 386"; iron post stamped "Prim. Trav. Sta. No. 2, 1915".....	35 01 15.4	90 02 18.3	8,816

Along Illinois Central Railroad.

Whitehaven, 1 mile north of, center of main track at public road crossing.....	35 02 07.3	90 02 29.5	5,324
Whitehaven, 1.50 miles north of, crossing of Lake View Electric Ry. and Illinois Central R. R., center of Illinois Central R. R. track under electric railway.....	35 02 30.8	90 02 34.3	2,411
Whitehaven, 2.30 miles north of, center of track at second-class road crossing.....	35 03 14.4	90 02 48.2	4,559
Whitehaven, 2.96 miles north of, center of track at east and west public road crossing.....	35 03 46.6	90 02 57.3	3,333
Noncannah Creek, center of track at center of iron bridge over.....	35 04 17.6	90 03 03.2	3,175
Noncannah Creek, 0.30 mile north of, center of track at east and west public road crossing.....	35 04 32.8	90 03 06.0	1,556
Noncannah Creek, 0.75 mile north of, center of southbound track, at road crossing.....	35 04 56.6	90 03 10.5	2,441
Noncannah Creek, 1 mile north of, center of southbound track at east and west public road under railroad.....	35 05 11.4	90 03 13.3	1,510
Noncannah Creek, 2.50 miles north of, center of northbound track, "Speedway" crossing.....	35 06 27.4	90 03 11.1	7,679

Along highways and Illinois Central Railroad (checked spur line).

Washington and Third streets, intersection of.....	35 08 54.6	90 02 54.3	.....
Jackson Avenue and Third Street, intersection of.....	35 09 12.5	90 02 47.2	1,903
Suffaran Avenue and Third Street, intersection of.....	35 09 37.7	90 02 37.1	2,687
Keel Avenue and Illinois Central R. R., intersection of.....	35 09 49.3	90 02 50.5	1,612
Second Street and main track Illinois Central R. R., intersection of.....	35 10 29.9	90 02 37.4	4,244
Plum Street and main track Illinois Central R. R., intersection of.....	35 10 51.2	90 02 25.4	2,371
Wolf Creek, center of Illinois Central R. R. track at center of iron bridge over.....	35 11 22.6	90 02 13.5	3,324
Wolf Creek, 1.10 miles northeast of, second-class road crossing.....	35 12 18.2	90 02 03.0	5,697
Fraser, overhead crossing of public road, center of track at.....	35 12 38.2	90 01 41.4	2,700
Fraser, 0.47 mile northeast of, second-class crossing, center of track at.....	35 12 58.5	90 01 24.7	2,470
Felts station, second-class crossing, center of track at.....	35 13 37.8	90 00 52.4	4,799
Felts station, 0.40 mile northeast of, center of track at public road crossing.....	35 13 56.9	90 00 36.6	2,330
Felts station, about 1.40 miles northeast of, 0.50 mile north of Douglas Felts store, at T road east, 21 feet west from fence corner in yard of cabin, and in line with east and west fence running from corner to railroad tracks; iron post stamped "Prim. Trav. Sta. No. 4, 1915".....	35 14 40.4	90 00 13.0	4,812

Along Yazoo & Mississippi Valley Railroad.

Memphis bridge, center of track at, east end of.....	35 07 33.9	90 04 21.6	.....
ARKANSAS.			
Memphis bridge, center of track at west end of.....	35 08 08.2	90 05 05.4	5,017
Hopefield, south base triangulation station.....	35 07 51.69	90 04 54.85	1,881

MEMPHIS QUADRANGLE—Continued.

Along Union Belt Line Railway and highways.

Station.	Latitude.	Longitude.	Distance between stations.
TENNESSEE.			
Common Street crossing, center of track at.....	35 10 25.0	90 02 08.4	.....
Morsehead Avenue crossing, center of track at.....	35 10 23.6	90 01 29.1	3,269
Jones Avenue crossing, center of track at.....	35 10 22.8	90 01 02.7	2,189
Raleigh Springs Road crossing, center of track at.....	35 10 22.1	90 00 41.6	1,750
South-bound Parkway Drive at crossing of St. Louis & San Francisco R. R.	35 06 33.8	90 00 35.3	.....
Parkway at intersection with South Bellevue Boulevard.....	35 06 34.7	90 01 17.8	3,538
Westbound driveway at Parkway at intersection with Gaither Parkway.....	35 06 35.9	90 01 51.7	2,815
Parkway at intersection with Mississippi Boulevard.....	35 06 30.4	90 02 01.7	1,008
Parkway at intersection with Kerr Avenue.....	35 06 26.2	90 02 14.1	1,109
Parkway at intersection with Lauderdale Street.....	35 06 26.7	90 02 36.5	1,869
Memphis, intersection of Union Street and Belvidere Boulevard.....	35 08 08.7	90 00 18.0	.....
Memphis, intersection of Union and South Cleveland streets.....	35 08 12.7	90 00 59.0	3,438
Memphis, intersection of Union and South Somerville streets.....	35 08 16.1	90 01 33.3	2,872
Memphis, intersection of Union and Walnut streets.....	35 08 19.2	90 02 04.4	2,600
Memphis, intersection of Union Street and Southern Ry. tracks.....	35 08 23.1	90 02 25.3	1,783
Memphis, intersection of Union and Wellington streets.....	35 08 27.6	90 02 42.0	1,460
Exchange triangulation station.....	35 08 42.05	90 03 04.85	2,396

Along Iron Mountain Railway.

ARKANSAS.			
Hopefield south base triangulation station, a Coast and Geodetic Survey station in the village of West Memphis, about 300 meters west from the Mississippi River, 170 meters south from the railroad bridge approach, 50 meters north from the road leading west from the ferry landing, 47 meters east from the store belonging to Mr. J. A. Templin, in the rear of the house on the lot belonging to Mr. Douglas Owens and 28 meters east from his west property line and 12 meters south from his north line. The stone projects 14 inches and is marked on the south, "U. S. Coast Survey, on the west, "S. Base," and on the east, "1879".....	35 07 51.69	90 04 54.85	.....
Intersection of Chicago, Rock Island & Pacific Ry. and Iron Mountain R. R.	35 08 43.9	90 06 04.3	7,822
Intersection of Chicago, Rock Island & Pacific Ry. and levee in Arkansas.....	35 08 33.8	90 07 30.6	7,242
Chicago, Rock Island & Pacific Ry. at point where it leaves levee, center of track at.....	35 08 10.2	90 09 31.8	10,340
Hulbert, 1 mile east of, intersection of tangents of Iron Mountain and Rock Island & Pacific railroads.....	35 08 00.4	90 10 21.8	4,270
Hulbert station, center of track opposite.....	35 07 45.9	90 11 36.6	6,390
Riceville, public road crossing under track at.....	35 07 24.5	90 13 27.4	9,450
Riceville, 0.80 mile southwest of, center of track, at second-class road crossing.....	35 07 15.2	90 14 15.2	4,080
Mounds Arkansas, at southeast corner of post office and general store of Mounds Lumber Co., 47 feet north of main track of Chicago, Rock Island & Pacific Ry., 1 foot south of southeast corner of porch; iron post stamped "Prim. Trav. Sta. No. 5, 1915".....	35 06 54.9	90 16 03.6	9,235

Along St. Louis & San Francisco Railroad.

Frisco, at crossing of levee, center of tracks at.....	35 09 44.8	90 06 58.0	.....
Creek crossing under trestle, center of track at.....	35 10 33.1	90 08 22.4	8,539
Trestle No. 4769, second-class road crossing under center of track at.....	35 11 01.5	90 09 12.0	5,021
Second-class road crossing, center of track at.....	35 11 21.9	90 09 47.6	3,601
Road crossing, center of track at.....	35 11 35.7	90 10 11.7	2,441
Do.....	35 11 51.3	90 10 39.1	2,770
Public road crossing, center of track at.....	35 12 21.2	90 11 30.2	5,205
Marion station, 150 feet north of, center of main track at public road crossing.....	35 12 51.8	90 11 47.9	3,422
Harvard station, 420 feet west of, 600 feet south of Frisco ice plant, on west side of road, 30 feet east and 16.6 feet north of front gate at house of superintendent of ice plant; iron post stamped "Prim. Trav. Sta. No. 6, 1915".....	35 14 22.3	90 12 32.7	9,877

Magnetic declination near east border of quadrangle, 54° E.; in northwest quarter, from 34° to 64° E.; near south border of southeast quarter, $5^{\circ} 26'$ E.

BARTLETT QUADRANGLE.

Along Union Belt Line Railway and highways.

Station.	Latitude.	Longitude.	Distance between stations.
TENNESSEE.			
Evergreen Avenue crossing, center of track at.....	35 10 20.7	89 59 59.8	
McLean Avenue crossing, center of track at.....	35 10 20.2	89 59 43.0	1,390
Patterson Transfer Co.'s farm, on the Raleigh Springs Road, $\frac{1}{2}$ mile south of, in northwest corner of Springdale Avenue crossing of Belt Line, iron post stamped "Prim. Trav. Sta. No. 3, 1915".....	35 10 18.9	89 59 00.4	3,541
Springdale Avenue crossing of Louisville & Nashville R. R., center of track at.....	35 09 42.5	89 59 01.9	3,683
Jackson Boulevard and Parkway Drive, intersection of.....	35 09 29.1	89 58 47.8	1,789
Overton Park, northeast corner of, intersection of Parkway and Speedway.....	35 09 03.6	89 58 51.5	2,590
East Parkway and Poplar Avenue, intersection of.....	35 08 25.8	89 58 57.2	3,854
Parkway and East Madison Avenue, intersection of.....	35 08 09.6	89 59 00.7	1,663
Parkway, under center of concrete railway bridge.....	35 07 45.8	89 59 01.5	2,413
Intersection of southbound drive of Parkway and Central Avenue, also of iron railroad bridge overhead.....	35 07 33.5	89 59 02.4	1,250
Intersection of southbound drive of Parkway and Nelson Avenue, opposite Agricultural Building of Tri-State Fair Grounds.....	35 07 18.5	89 59 03.0	1,510
Tri-State Fair Grounds, at southwest corner of, intersection of southbound drive of Parkway and Southern Ry. tracks.....	35 06 57.1	89 59 03.6	2,170
Spotswood Avenue and South Trezevant Avenue, intersection of.....	35 06 52.1	89 59 03.8	510
Parkway, intersection of southbound driveway of, with Carnes Avenue.....	35 06 47.7	89 59 29.5	2,186
Parkway Drive and South Barkdale Street, intersection of.....	35 06 32.3	89 59 57.0	2,762
Intersection of South Cooper and Union streets.....	35 08 03.2	89 59 24.5	
Intersection of Cooper Street and McLean Boulevard.....	35 08 06.9	89 59 59.4	2,933