

DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

GEORGE OTIS SMITH, DIRECTOR

BULLETIN 554

RESULTS OF SPIRIT LEVELING
IN KENTUCKY

1898 TO 1913, INCLUSIVE

R. B. MARSHALL, CHIEF GEOGRAPHER

Work from 1902 to 1913, inclusive, done in cooperation
with the Kentucky Geological Survey



WASHINGTON
GOVERNMENT PRINTING OFFICE

1914

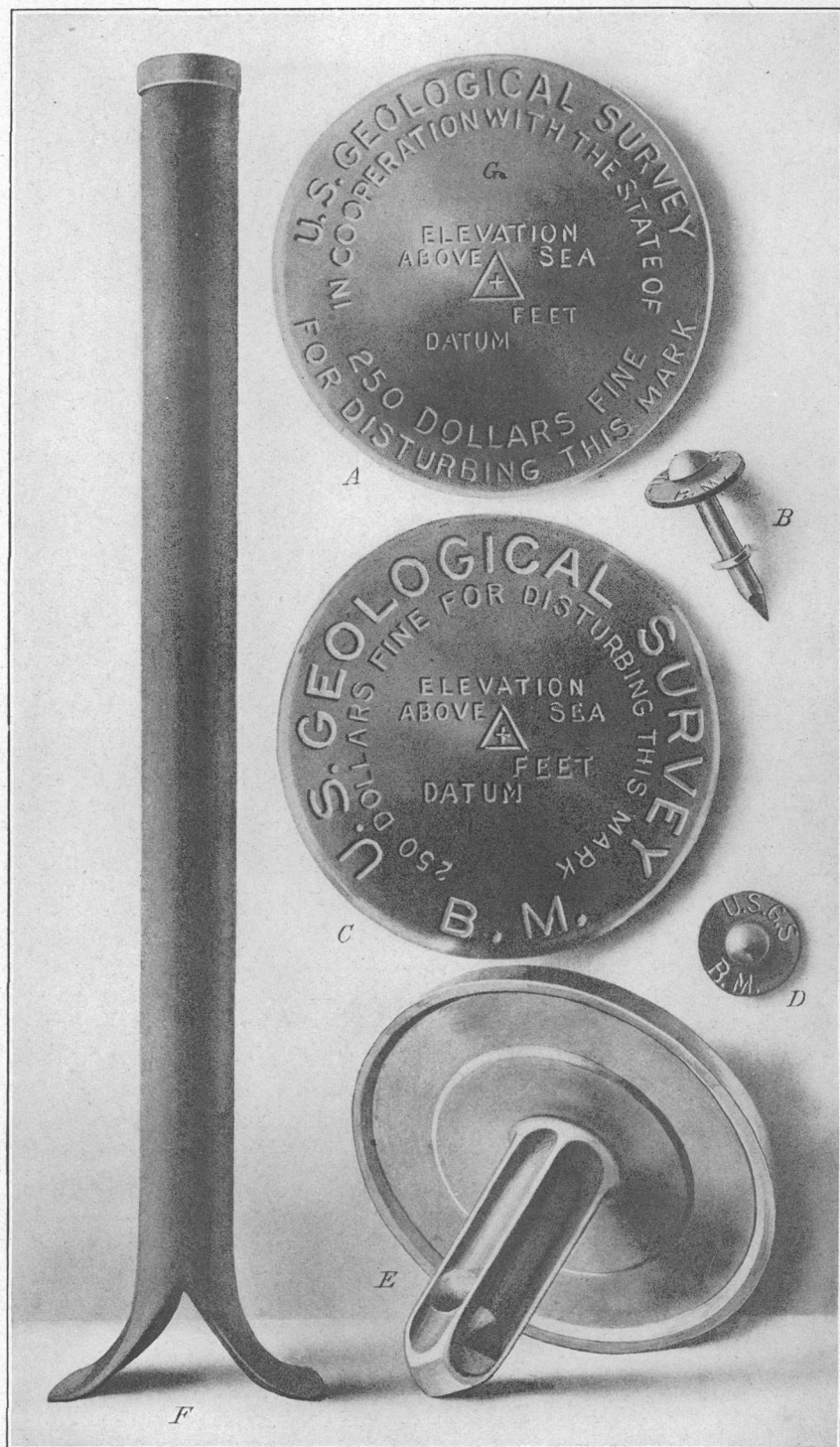
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GEOLOGICAL SURVEY BENCH MARKS.

A, Tablet used in cooperating States. The State name is inserted at *G*.
B and *D*, Copper temporary bench mark, consisting of a nail and copper washer.
A, *C*, and *E*, Tablets for stone or concrete structures.
F, Iron post used where there is no rock.

RESULTS OF SPIRIT LEVELING IN KENTUCKY FOR THE YEARS 1898 TO 1913 INCLUSIVE.

R. B. MARSHALL, *Chief Geographer.*

INTRODUCTION.

Cooperation.—The State of Kentucky contributed financially to this work during the years 1902 to 1913, inclusive, and was represented by C. J. Norwood, director of the Kentucky Geological Survey, from 1902 to 1911, and by J. B. Hoeing, director, in 1912 and 1913.

Personnel.—The field work during the years 1898 to 1902, inclusive, was done under the direction of J. H. Renshawe, geographer; during 1903 to 1905, inclusive, under H. M. Wilson, geographer; during 1906 and 1907 by Frank Sutton, geographer; and during 1908 to 1913, inclusive, under W. H. Herron, geographer. The work since January, 1908, was done under the general direction of R. B. Marshall, chief geographer. Credit is given to the levelmen in the introductions to the several lists. The office work of computation, adjustment, and preparation of lists was done mainly by S. S. Gannett, geographer, under the general direction of E. M. Douglas, geographer.

Classification.—The elevations are classified as precise or primary, according to the methods employed in their determination. For precise-level lines instruments and rods of the highest grade are used. Each line is run both forward and backward, and every precaution is taken to guard against error. The allowable divergence between the forward and the backward lines in feet is represented by the formula $0.017\sqrt{D}$, in which D is the distance in miles between bench marks. For primary lines standard Y levels are used; lines are run in circuits or are closed on precise lines, with an allowable closing error in feet represented by $0.05\sqrt{D}$, in which D is the length of the circuit in miles, sufficient care being given to the work to maintain this standard. For leveling of both classes careful office adjustments are made, the small outstanding errors being distributed over the lines.

Bench marks.—The standard bench marks are of two forms. The first form is a circular bronze or aluminum tablet (*C* and *E*, Pl. I), $3\frac{1}{2}$ inches in diameter and one-fourth inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry structure. The second form (*F*, Pl. I), used where masonry

or rock is not available, consists of a hollow wrought-iron post $3\frac{1}{2}$ inches in outer diameter and 4 feet in length. The bottom is spread out to a width of 10 inches in order to give a firm bearing on the earth. A bronze or aluminum-bronze cap is riveted over the top of the post, which is set about 3 feet in the ground. A third style of bench mark, with abbreviated lettering (*B* and *D*, Pl. I), is used for unimportant points. This consists of a special copper nail $1\frac{1}{2}$ inches in length driven through a copper washer seven-eighths inch in diameter. The tablets as well as the caps on the iron posts are appropriately lettered, and cooperation by States is indicated by the addition of the State name (*G*, Pl. I).

The numbers stamped on the bench marks described in the following pages represent the elevations to the nearest foot as determined by the levelman. These numbers are stamped with $\frac{3}{16}$ -inch steel dies on the tablets or post caps, to the left of the word "Feet." The office adjustment of the notes and the reduction to mean sea-level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey, Washington, D. C., for the adjusted values, and will use the markings as identification numbers only.

Datum.—All United States Geological Survey elevations are referred to mean sea level, which is the level that the sea would assume if the influence of winds and tides were eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level.

Mean sea level is the average height of the water, all stages of the tide being considered. It is determined from observations made by means of tidal gages placed at stations where local conditions, such as long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea level as determined from observations in the Atlantic Ocean, the Gulf of Mexico, or the Pacific Ocean.

The connection with tidal stations for bench marks in certain areas that lie at some distance from the sea coast is still uncertain, and this fact is indicated by the addition of a letter or word to the right of the word "Datum" on tablets or posts. For such areas corrections for published results will be made from time to time as the precise-level lines of the United States Geological Survey or other Government organizations are extended.

The following results of spirit leveling are in agreement with the 1907 adjustment of precise leveling by the Coast and Geodetic Survey except as modified in the northern part of the State by an adjustment made in 1912 by the Coast and Geodetic Survey of the precise-level lines from Georgetown, Ky., via Louisville, Ky., Mitchell and Terre Haute, Ind., to Oakland, Ill., run by the United States Geological Survey; from Lawrenceburg, Ind., along the Ohio River to Cairo, Ill., run by the United States Corps of Engineers; from Terre Haute, Ind., along Wabash River to Shawneetown, Ill., run by the United States Corps of Engineers; and from Duquoin to Shawneetown, Ill., run by the United States Geological Survey. These lines have been fitted to the precise level net, the elevations at Georgetown, Ky., Lawrenceburg, Ind., Cairo, Duquoin, and Oakland, Ill., being held at the values given by the 1907 adjustment. The elevations of bench marks in other portions of Kentucky remain as determined by the 1907 adjustment, and are likely to be changed but slightly by any future adjustment.

Topographic maps.—Maps of the following quadrangles, wholly or partly in Kentucky, have been published by the United States Geological Survey up to July 1, 1913. They may be obtained, unless otherwise noted, at 10 cents each or \$3 for 50 on application to the Director of the Survey, at Washington, D. C.

Beattyville.
 Calhoun.
 Central City.
 Cincinnati (Ohio-Ky.), double sheet ¹
 (20 cents).
 Cumberland Gap (Ky.-Va.-Tenn.)
 Dawson Springs.
 Earlington.
 East Cincinnati (Ohio-Ky.)¹
 Estillville (Ky.-Va.-Tenn.)
 Georgetown.
 Gilbert (W. Va.-Va.-Ky.).
 Grundy (Va.-Ky.).
 Harrodsburg.
 Hartford.
 Hazard.
 Huntington (W. Va.-Ohio-Ky.).
 Ironton (Ohio-Ky.).
 Jonesville (Ky.-Va.-Tenn.).
 Kenova (Ky.-W. Va.-Ohio).
 Kosmosdale (Ky.-Ind.).
 Lockport.
 London.
 Louisville.²

Madisonville.
 Manchester.
 Morganfield.
 Newburg (Ky.-Ind.).
 New Haven (Ill.-Ind.-Ky.).²
 Nortonville.
 Oceana (W. Va.-Va.-Ky.).
 Owensboro (Ind.-Ky.).
 Prestonsburg.
 Princeton.
 Prospect (Ky.-Ind.).
 Providence.
 Richmond.
 Salyersville.
 Sebree.
 Sutherland.
 Taylorsville-La Grange.³
 Tell City (Ky.-Ind.).
 Warfield (W. Va.-Ky.-Va.).
 West Cincinnati (Ohio-Ky.).¹
 Whitesburg (Ky.-Va.).
 Whitesville.
 Williamsburg (Ky.-Tenn.).

¹ Cincinnati double sheet includes East Cincinnati and West Cincinnati sheets.

² Shows wooded areas.

³ Preliminary edition showing part of quadrangle.

PRECISE LEVELING.

Austerlitz, Chilesburg, Frenchburg, Georgetown, Hedges, Lee City, Proctor, and Rosslyn quadrangles.

BREATHITT, CLARK, FAYETTE, LEE, POWELL, AND WOLFE COUNTIES.

The elevations in the following list depend on a bench mark established by precise levels of the Coast and Geodetic Survey at Lexington and described as follows: Lexington, at northeast corner of South Broadway and Maxwell Streets, at east stairway entrance to Dr. H. A. Phillips's drug store, in door stone, 5 inches east of west end and 4 inches above sidewalk; brass bolt stamped "U. S. C. & G. S.," the elevation of which is accepted as 979.552 feet above mean sea level.

The leveling was done in 1906 by W. H. Monahan.

GEORGETOWN QUADRANGLE.

[Latitude 38°-38° 15'; longitude 84° 30'-84° 45'.]

From Lexington east along Lexington & Eastern Ry.

	Feet.
Lexington, in front of station; top of rail.....	946. 9
Lexington, on stone wall around station platform; chiseled square.....	947. 378

CHILESBURG QUADRANGLE.

[Latitude 38°-38° 15'; longitude 84° 15'-84° 30'.]

Lexington, 3.92 miles southeast of, in abutment of bridge; aluminum tablet stamped "964".....	963. 715
Montrose, 50 feet south of railroad station; iron post stamped "939".....	938. 793
Fenwick, in front of station; top of rail.....	938. 3
Fenwick, 0.45 mile southeast of, in bridge abutment; aluminum tablet stamped "919".....	918. 790
Avon, in front of station; top of rail.....	943. 6
Avon, 0.91 mile southeast of, in bridge abutment; aluminum tablet stamped "954".....	953. 685
Avon, 3.03 miles southeast of, abutment of overhead bridge; aluminum tablet stamped "987".....	987. 084
Wyandotte, in front of station; top of rail.....	989. 6

AUSTERLITZ QUADRANGLE.

[Latitude 38°-38° 15'; longitude 84°-84° 15'.]

Wyandotte, 4.07 miles southeast of, in railroad girder bridge; aluminum tablet stamped "919".....	919. 450
Wyandotte, 6.07 miles southeast of, in abutment of railroad bridge; aluminum tablet stamped "965".....	964. 882

HEDGES QUADRANGLE.

[Latitude 37° 45'-38°; longitude 84°-84° 15'.]

Winchester, in front of station; top of rail.....	980. 8
Winchester, 3.81 miles southeast of, in abutment of railroad bridge, aluminum tablet stamped "933".....	932. 509
Winchester, 5.87 miles southeast of, in abutment of railroad bridge; chiseled square.....	922. 751

Lexington & Eastern Ry. junction, 0.20 mile southeast of, in abutment of railroad bridge; aluminum tablet stamped "940"	Feet. 939. 684
Lexington & Eastern Ry. junction, 4.02 miles southeast of, on stone in cut south of track; chiseled square.....	869. 39
Lexington & Eastern Ry. junction, 4.03 miles southeast of, on south side of cut, 5 feet south of track, 2 feet from ground, in stone; aluminum tablet stamped "870"	869. 989

ROSSLYN QUADRANGLE.

[Latitude 37° 45'-38°; longitude 83° 45'-84°.]

Indian Field, northwest corner of A. B. Hampton farm, 35 feet south of track, 10 feet from road; iron post stamped "746"	745. 918
Indian Field, in front of station; top of rail.....	745. 6
Argyle, at southwest corner of J. A. Roberts's store, aluminum tablet stamped "720"	719. 998
Argyle, in front of station; top of rail.....	721. 6
Virden, in front of station; top of rail.....	659. 7
Shawnee, in front of station; top of rail.....	627. 9
Shawnee, 0.04 mile southeast of, in southwest corner of abutment of Red River bridge; aluminum tablet stamped "627"	627. 164
Clay City, in front of station; top of rail.....	627. 8
Clay City, 2.06 miles southeast of, in stone abutment at southwest corner of bridge; aluminum tablet stamped "641"	641. 044
Stanton, in front of station; top of rail.....	662. 1
Stanton, 1.78 miles southeast of, in stone abutment at southwest corner of bridge; aluminum tablet stamped "647"	647. 611
Rosslyn, in front of station; top of rail.....	667. 6
Filson, in front of station; top of rail.....	666. 9
Filson, 0.22 mile southeast of, in southwest corner of stone culvert, under track; aluminum tablet stamped "663"	662. 609

FRENCHBURG QUADRANGLE.

[Latitude 37° 45'-38°; longitude 83° 30'-83° 45'.]

Lombard, 0.32 mile southeast of, in southwest corner of abutment of bridge; aluminum tablet stamped "680"	680. 052
Dundee, in front of station; top of rail.....	710. 5
Dundee, 0.76 mile southeast of, in northwest corner of abutment of bridge; aluminum tablet stamped "726"	725. 827
Natural bridge, in front of station; top of rail.....	762. 8
Natural Bridge, 0.68 mile southeast of, in northwest corner of abutment of bridge; aluminum tablet stamped "774"	774. 171
Glencairn, in front of station; top of rail.....	783. 7

PROCTOR QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 83° 30'-83° 45'.]

Glencairn, 2.63 miles southeast of, on southwest corner of bridge abutment; chiseled square.....	884. 93
Torrent, 60 feet northwest of station, 60 feet north of track; iron post stamped "938"	938. 310
Torrent, in front of station; top of rail.....	939. 2
Torrent, 1.92 miles southeast of, south side of cut, on stone; chiseled square.....	865. 14
Torrent, 4.92 miles southeast of, in east end of stone culvert south of track; aluminum tablet stamped "707"	706. 992

	Feet.
Fincastle, in front of station; top of rail.....	711. 1
Fincastle, 2.0 miles southeast of, on southeast corner of stone abutment of bridge; chiseled square.....	383. 84
Beattyville Junction, in front of station; top of rail.....	689. 8
Beattyville Junction, 0.1 mile southeast of, east end of bridge, at southeast corner, stone abutment; aluminum tablet stamped "684".....	684. 232
St. Helens, in front of station; top of rail.....	674. 0
St. Helens, 0.23 mile southeast of, stone foundation of watering tank, at center of north side, northwest corner, in first stone from ground; aluminum tablet stamped "674".....	673. 764
Monica, in front of station; top of rail.....	683. 43
Monica, 0.31 mile southeast of, 30 feet south of track, 100 feet east of road crossing; iron post stamped "675".....	674. 888
Tallega, 2.67 miles southeast of, in southeast corner of stone abutment of bridge; aluminum tablet stamped "745".....	745. 081
Athol, in front of station; top of rail.....	744. 2
Athol, 2.92 miles southeast of, in southwest corner of stone abutment of small bridge; aluminum tablet stamped "773".....	773. 404
Oakdale, in front of station; top of rail.....	791. 2

LEE CITY QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 83° 15'-83° 30'.]

Oakdale, 3.36 miles southeast of, in southwest corner of stone culvert; aluminum tablet stamped "864".....	863. 824
Oakdale, 4.46 miles southeast of, on stone north of track, in cut; chiseled square.....	814. 85
Oakdale, 5.48 miles southeast of, in southwest corner of stone culvert; aluminum tablet stamped "747".....	746. 769
Elkatawa, in front of station; top of rail.....	745. 7
Ohio & Kentucky Ry. junction, in front of station; top of rail.....	737. 4
Ohio & Kentucky Ry. junction, 0.21 mile southeast of, on north end of iron pipe under track; chiseled square.....	741. 27
Ohio & Kentucky Ry. junction, 1.21 miles southeast of, in lot of Jackson Coal Co. superintendent's residence; iron post stamped "750".....	750. 454
Jackson, in top of west end of stone wall at south side of courthouse yard; aluminum tablet stamped "791".....	791. 075
Jackson courthouse, in northwest corner of grounds; iron post stamped "790".....	790. 196

Frankfort, Georgetown, Louisville, Pleasureville, Prospect, Sadieville, Taylorsville and Waddy quadrangles.

FRANKLIN, JEFFERSON, SCOTT, AND SHELBY COUNTIES.

A line of precise levels was run in the spring of 1906 from bench mark W at Georgetown, Ky., established by the Coast and Geodetic Survey from precise levels, west over the Louisville & Nashville R. R. to Louisville, where bench mark 10 of the United States Corps of Engineers was tied to. The initial value at Georgetown was accepted as 877.049 feet above mean sea level, and the corrected value of bench mark 10, United States Corps of Engineers, was accepted as 417.143 feet, in agreement with the 1912 adjustment. The total

divergence of the line was minus 0.078 foot and the total distance 78.7 miles.

A second bench mark of the Corps of Engineers at 27th Street bridge, Louisville, the corrected elevation of which is 430.364 feet above mean sea level, was tied to by a line run from a bench mark at 11th and Main streets, Louisville, on the first line, a distance of 2.7 miles. The closure error between the 11th and 27th street bench marks was 0.010 foot low. The divergence was plus 0.010 foot.

The leveling was done in 1906 by C. H. Semper.

GEORGETOWN QUADRANGLE.

[Latitude 38°-38° 15'; longitude 84° 30'-84° 45'.]

From Georgetown west via Louisville & Nashville R. R. to Duvall.

Georgetown, 75 feet southwest of Cincinnati, New Orleans & Texas Pacific Ry. station, northeast corner of foundation of E. N. Offutt & Sons' warehouse, west side of Maddox Street, 110 feet north of Jackson Street, in north face, 6 inches west of corner, 0.83 meter above ground; chisel mark in copper bolt, lettered "U. S. C. \ominus & G. S." (Coast and Geodetic Survey, b. m. W).....	Feet. 877.049
Georgetown, at southeast corner of Sinclair's store, in Mrs. T. B. Sinclair's lot; iron post stamped "Prim. Trav. Sta. No. 17, 866".....	865.542
Georgetown, 3 miles west of, in top of east end of culvert abutment, north of track; aluminum tablet stamped "798".....	797.710
Johnson, in front of station; top of rail.....	864.6
Duvall Station, in top of west wall of culvert east of road, 5 feet north of track; aluminum tablet stamped "840".....	840.391
Duvall, in front of station; top of rail.....	839.3

SADIEVILLE QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 84° 30'-84° 45'.]

From Duvall west via Louisville & Nashville R. R. to Switzer.

Stamping Ground, in Dr. Reilly's front yard, south of track, 230 feet west of station; iron post stamped "Prim. Trav. Sta. No. 26, 802".....	802.343
Stamping Ground, in front of station; top of rail.....	799.2
Stamping Ground, 12.1 miles west of, top of west abutment of bridge south of track; aluminum tablet stamped "714".....	713.582
Switzer, 40 feet west of station, 9 feet south of track, in top of culvert; aluminum tablet stamped "732".....	732.552
Switzer, in front of station; top of rail.....	735.1

FRANKFORT QUADRANGLE.

[Latitude 38°-38° 15'; longitude 84° 45'-85°.]

From Switzer west via Louisville & Nashville R. R. to Hatton.

Elkhorn, in front of station; top of rail.....	662.0
Elkhorn, 75 feet west of station, at northeast corner of warehouse; iron post stamped "673".....	(7... 223
Stedman, in front of station; top of rail.....	711.2
Stedman, 360 feet west of station, top of east end of culvert 6 feet north of track; aluminum tablet stamped "714".....	714.410
Frankfort, southwest corner of capitol grounds; iron post stamped "511 Lexington".....	511.208

	Feet.
Frankfort, in northeast corner of front face of post-office building; aluminum tablet stamped "512".....	512.331
Kennebec, in front of station; top of rail.....	507.5
Kennebec, 1.3 miles west of, top of retaining wall of steel bridge, north of track; aluminum tablet stamped "537".....	536.959
Benson, in front of station; top of rail.....	597.5
Benson, 0.3 mile west of, top of retaining wall, in east abutment of steel bridge, north of track; aluminum tablet stamped "600".....	599.745
Hatton, in front yard of C. W. Stockton's tenement house opposite Roberts and Wright's general store, north of track, 10 feet north of fence; iron post stamped "714".....	714.474
Hatton, in front of station; top of rail.....	706.1

WADDY QUADRANGLE.

[Latitude 38°-38° 15'; longitude 85°-85° 15'.]

Near Hatton.

Hatton, 2.8 miles west of, east end of culvert north of track; aluminum tablet stamped "829".....	829.599
From point 2.2 miles west of Christiansburg west along Frankfort & Cincinnati and Louisville & Nashville railroads to Shelbyville.	
Christiansburg, 6.4 miles west of, in top of west end of culvert south of track; aluminum tablet stamped "724".....	723.963
Shelbyville, in courthouse yard, 10 feet east of southeast corner of courthouse; iron post stamped "Prim. Trav. Sta. No. 2, 760".....	759.710
NOTE.—Post at Shelbyville moved 102 feet S. 24° 15' W. from former location. Present elevation (1913).....	760.000
Shelbyville, in front of station; top of rail.....	729.7

PLEASUREVILLE QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 85°-85° 15'.]

From Bagdad west along Louisville & Nashville R. R. to point near Christiansburg.

Bagdad, in front of station; top of rail.....	912.1
Bagdad, 40 feet west of station, 45 feet south of track; iron post stamped "912".....	911.936
Christiansburg, 135 feet east of station, in northeast corner of Mrs. Miriam Hall's front yard; iron post stamped "903".....	903.401
Christiansburg, in front of station; top of rail.....	906.0
Christiansburg, 2.2 miles west of, east of road and 43 feet south of track at Mulberry Crossing; iron post stamped "849".....	849.412

TAYLORSVILLE QUADRANGLE.

[Latitude 38°-38° 15'; longitude 85° 15'-85° 30'.]

From Shelbyville west along Louisville & Nashville R. R. to Beckley.

Harbison, in front of station; top of rail.....	792.8
Scott, opposite station, 45 feet north of track, west of road, at fence line; iron post stamped "750".....	750.140
Scott, in front of station; top of rail.....	744.4
Field, in front of station; top of rail.....	734.9
Field, 0.2 mile west of station, top of west abutment of trestle; aluminum tablet stamped "725".....	724.939
Field, 1 mile west of, south of track, in top of east wall of culvert; chiseled square.....	750.05

	Feet.
Simpsonville, in front of station; top of rail.....	796. 0
Simpsonville, in southeast corner of Masonic Lodge grounds; iron post stamped "Prim. Trav. Sta. No. 1, 825, 1905".....	824. 786
Connor, in front of station; top of rail.....	705. 7
Connor, 50 feet south of station, east of road in angle with right of way; iron post stamped "701".....	701. 433
Long Run, 100 feet east of station, north of track at intersection of road with right of way; iron post stamped "629".....	629. 399
Long Run, in front of station; top of rail.....	629. 0
Eastwood, in front of station; top of rail.....	651. 6
Beckley, 0.1 mile east of, top of retaining wall west abutment of bridge south of track; aluminum tablet stamped "595".....	595. 221
Beckley, in front of station; top of rail.....	599. 0

PROSPECT QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 85° 30'-85° 45'.]

From Beckley west along Louisville & Nashville R. R. to Louisville.

Avoca, in front of station; top of rail.....	664. 5
Anchorage, in circular park, 300 feet northwest of clubhouse; iron post stamped "Prim. Trav. Sta. No. 38, 724".....	724. 264
Anchorage, in front of station; top of rail.....	716. 5
Lakeland, in front of station; top of rail.....	696. 0
Lyndon, in front of station; top of rail.....	566. 5
Lyndon, 260 feet west of station, 40 feet east of road south of track; iron post stamped "561".....	561. 486
Warwick Villa, 0.3 mile west of south of track, on west wall of culvert; marked square.....	538. 98
St. Matthews, in front of station; top of rail.....	552. 5
St. Matthews, 441 feet west of, 25 feet east of forks of road to south; iron post stamped "Prim. Trav. Sta. No. 118, 550".....	549. 982
St. Matthews, 0.7 mile west of, southwest corner of Finley and Shelby pikes; iron post stamped "Prim. Trav. Sta. No. 117, 548".....	547. 862
St. Matthews, 1.4 miles west of, south side of Frankfort Avenue, north of wall to waterworks, water tank nearest corner, azimuth 57° 18', distance 42.5 feet, corner of stone wall at waterworks, azimuth 348° 28', distance 7 feet; iron post stamped "553".....	553. 669

LOUISVILLE QUADRANGLE.

[Latitude 38°-38° 15'; longitude 85° 30'-85° 45'.]

Louisville, southeast corner of Park Avenue and Shelbyville Road; iron post stamped "Prim. Trav. Sta. No. 49, 538".....	537. 919
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Louisville city survey.**JEFFERSON COUNTY.**

The bench marks in the following list were established in the spring of 1906 by C. H. Semper, detailed by the United States Geological Survey to the commissioners of sewerage of the city of Louisville. Elevations depend upon the heights of two bench marks of the United States Army Engineers by the 1912 adjustment of precise leveling, bench mark No. 10, elevation 417.143 feet, and a bench mark at west side of approach to 27th Street bridge, elevation 430.364 feet.

The area of the city was divided into 12 rectangular blocks approximately 1.5 by 2 miles, around the borders of which lines of primary traverse and precise levels were run. At intervals of 2,000 feet along the route a permanent bench mark was placed, consisting of a bronze tablet 3.5 inches in diameter, countersunk and cemented into the top of a stone post 3 feet in length, dressed 6 inches on top, set in ground flush with surface.

Each standard bench mark is stamped "Louisville City Survey, Elevation Above Sea—, B. M. and Prim. Trav. Sta. No.—," with its proper number and figures of elevation to the nearest foot. The bench marks on line from Georgetown to 27th Street set by Semper are iron posts.

LOUISVILLE CITY SURVEY.

B. M. 1, on south side of Bell's lane, 180 feet west of driveway to R. L. Newell's farmhouse, 3 feet north of east-west fence; nail in blaze of tree, azimuth 174°, distance 173.8 feet; gatepost, azimuth 3° 03', distance 62.1 feet; bronze tablet stamped "454"	Feet. 454. 453
B. M. 2, in top of bank on south side of road in Bell's lane, 1,100 feet west of Cane Run road; Louis Plochner's house, azimuth 242° 27', distance 144.1 feet; tree, azimuth 212° 16', distance 46.6 feet; bronze tablet stamped "455"	455. 670
B. M. 3, on east side of Cane Run road, 820 feet northeast of Bell's lane, 9 feet west of fence, 41.7 feet southwest to nail in telephone pole, 37.4 feet south to cross on north end of stone culvert; nail in telephone pole, azimuth 112° 18', distance 41.7 feet; bronze tablet stamped "456"	456. 121
B. M. 4, at intersection of Cane Run road and Beech Street; pump, azimuth 113° 32', distance 19.5 feet; Cramer's saloon, azimuth 177° 49', distance 26.5 feet; bronze tablet stamped "458"	457. 910
B. M. 5, at northwest corner of Beech Street and Woodward Avenue; gas pipe on corner, azimuth 280° 07', distance 50.6 feet; house, azimuth 117° 32', distance 39 feet; bronze tablet stamped "453"	453. 518
B. M. 6, at southwest corner of Dumesnil (?) and Amber streets, at foot of Twenty-eighth Street; drug store, azimuth 139° 00', distance 80.2 feet; corner of store, azimuth 205° 26', distance 43.3 feet; bronze tablet stamped "453"	453. 497
B. M. 7, at northeast corner of Twenty-eighth and Kentucky streets; north-west corner of grocery store, azimuth 1° 53', distance 62.1 feet; corner of bakery, azimuth 212° 12', distance 200 feet; bronze tablet stamped "446"	446. 549
B. M. 8, at southeast corner of Twenty-eighth Street and Broadway; corner of post-office station H, azimuth 192° 13', distance 85.6 feet; northwest corner of curb, azimuth 144° 04', distance 61.8 feet; bronze tablet stamped "448"	448. 334
B. M. 9, at southeast corner of Twenty-eighth and Madison streets; grocery store, azimuth 310° 29', distance 7 feet; corner of residence No. 1600, azimuth 91° 36', distance 60.9 feet; bronze tablet stamped "449"	449. 076
B. M. 10, on north side of Market Street at head of Twenty-eighth Street; grocery store, azimuth 355° 22', distance 66.9 feet; corner of saloon, azimuth 52° 04', distance 79.1 feet; bronze tablet stamped "451"	451. 312

B. M. 11, at northeast corner of Twenty-sixth and Rowan streets; corner of saloon, azimuth 227° 00', distance 9.1 feet; south end of fence, azimuth 135° 22', distance 61.9 feet; bronze tablet stamped "452"	Feet. 451. 780
B. M. 12, at northeast corner of Twenty-sixth and Slevin streets; corner of Ohlman's Exchange, azimuth 100° 28', distance 47 feet; Hochstrass, azimuth 258° 28', distance 9.8 feet; bronze tablet stamped "459"	458. 896
B. M. 13, at southeast corner of Twenty-sixth and Portland streets; grocery store, azimuth 108° 09', distance 46.6 feet; Struby's pump, azimuth 352° 46', distance 7.9 feet; bronze tablet stamped "454"	454. 028
B. M. 14, on Portland Avenue, 65 feet west of west curb to Thirtieth Street and 8 feet east of center of Kentucky & Indiana Terminal R. R.; bronze tablet stamped "457"	456. 999
B. M. 15, northwest corner of Thirty-third and Rudd streets; grocery store, azimuth 136° 45', distance 9.3 feet; pump, azimuth 260° 08', distance 81.5 feet; bronze tablet stamped "443"	443. 390
B. M. 16, at southeast corner of Thirty-fifth and Water streets; corner of saloon, azimuth 317° 50', distance 15.5 feet; manhole in Water Street, azimuth 199° 03', distance 10.7 feet; bronze tablet stamped "431"	431. 530
B. M. 17, southwest corner of Thirty-fifth and High streets; south corner of wall of academy grounds, azimuth 130° 15', distance 129 feet; cement foundation, azimuth 55° 48', distance 13.7 feet; bronze tablet stamped "452"	452. 495
B. M. 18, on south side of High Street, 446 feet west of west curb to Thirty-eighth street; corner of brick house, azimuth 191° 33', distance 91.9 feet; corner of warehouse, azimuth 132° 03', distance 131 feet; bronze tablet stamped "455"	455. 053
B. M. 19, on south side of High Street extended and on north side of Mrs. Annie Findlay's farm, 300 feet from Ohio River; nail in sycamore tree, azimuth 267° 40', distance 59.5 feet; nail in tree, azimuth 132° 27', distance 73.4 feet; bronze tablet stamped "436"	436. 691
B. M. 20, at southwest corner of Fountain Ferry road and boulevard, at northwest corner of Fountain Ferry Park; nail in pole, azimuth 295° 26'; nail in tree, azimuth 258° 56'; bronze tablet stamped "457"	457. 605
B. M. 21, at junction of east-west road and road north in west part of Shawnee Park; water plug, azimuth 47° 35', distance 46 feet; lamp-post, azimuth 324° 28', distance 4.5 feet; bronze tablet stamped "454"	454. 472
B. M. 22, on West Broadway, 100 feet west of car loop at Shawnee Park; nail in tree, azimuth 120° 09', distance 72.8 feet; urn, azimuth 303° 55', distance 174 feet; bronze tablet stamped "450"	450. 411
B. M. 23, on Broadway, at head of Forty-second Street; telephone pole, azimuth 314° 44', distance 71 feet; telephone pole, azimuth 48° 28', distance 76 feet; bronze tablet stamped "448"	448. 386
B. M. 24, on northeast corner of Broadway and Thirty-seventh Street; corner of red brick house, azimuth 220° 49', distance 47.9 feet; southeast corner of yellow brick house, azimuth 104° 31', distance 188.5 feet; bronze tablet stamped "448"	448. 702
B. M. 25, on north side of Broadway at Thirty-second Street; south corner of church, azimuth 317° 47', distance 164.9 feet; post, azimuth 19° 45', distance 81.5 feet; bronze tablet stamped "450"	450. 445
B. M. 26, on south side of Greenwood Avenue and just east of Spring Bank electric railway station; nail in cherry tree, azimuth 87° 07', distance 18.3 feet; nail in gum tree, azimuth 205° 46', distance 64.5 feet; bronze tablet stamped "454"	454. 500

B. M. 27, on Dr. B. A. Garr's farm, in northeast corner of barn lot; corner of house, azimuth 203° 28', distance 77.4 feet; bronze tablet stamped "455"	Feet. 455. 570
B. M. 28, on south side of Gibson's lane, just east of Little Paddy's Run; nail in sycamore tree, azimuth 146° 24', distance 75.5 feet; nail in cherry tree, azimuth 260° 13', distance 81.7 feet; bronze tablet stamped "450"	450. 827
B. M. 29, on south bank of Little Paddy's Run, about 400 feet southwest of house rented by Frank Meyers; bronze tablet stamped "455"	455. 345
B. M. 30, in Belt's lane and about 300 feet east of bank of Ohio River, 4 feet north of fence; nail in walnut tree, azimuth 272° 12', distance 203.1 feet; tree, azimuth 75° 52', distance 46.2 feet; bronze tablet stamped "451"	451. 350
B. M. 31, north side of Bell's lane, just east of entrance to Christ Gilchrist's farm; corner of his house, azimuth 168° 13'; distance 101.2 feet; nail in gum tree, azimuth 62° 27', distance 82.1 feet; bronze tablet stamped "446"	446. 374
B. M. 32, on east side of Cane Run Road, just north of Woodlawn Avenue; nail in tree, azimuth 81° 59', distance 107.6 feet; southeast corner of house, azimuth 121° 38', distance 52.7 feet; bronze tablet stamped "459"	459. 471
B. M. 33, on east side of Eighteenth Street at Ormsby Avenue; water plug, azimuth 27° 53', distance 21.8 feet; southeast corner of saloon, azimuth 125° 52', distance 57.5 feet; bronze tablet stamped "451"	451. 100
B. M. 34, on southeast corner of Sixteenth Street and Ormsby Avenue; center of manhole, azimuth 206° 02', distance 5.2 feet; southeast corner of house No. 1545, azimuth 147° 43', distance 99.5 feet; bronze tablet stamped "452"	451. 966
B. M. 35, on southeast corner of Twelfth Street and Ormsby Avenue; northeast corner of house, azimuth 83° 52', distance 56.3 feet; southwest corner of box factory, azimuth 190° 52', distance 67.6 feet; bronze tablet stamped "452"	452. 316
B. M. 36, on southeast corner of Seventh Street and Ormsby Avenue; water plug, azimuth 249° 59', distance 22.9 feet; northeast corner of Kentucky Heating Co.'s porch, azimuth 48° 51', distance 62.5 feet; bronze tablet stamped "460"	460. 469
B. M. 37, on southwest corner of Third Street and Ormsby Avenue; corner fence post, azimuth 169° 54', distance 69.9 feet; gate post at No. 1400, azimuth 46° 08', distance 38.2 feet; bronze tablet stamped "456"	456. 416
B. M. 38, northeast corner of Ormsby Avenue and Preston Street; southeast corner of McGee's drug store, azimuth 155° 23', distance 101.9 feet; northwest corner of store building on southeast corner of Ormsby Avenue and Preston Street, azimuth 2° 29', distance 54.6 feet; bronze tablet stamped "453"	453. 244
B. M. 39, northwest corner of Ormsby Avenue and Shelby Street; southwest corner of Kentucky Refining Co.'s office, azimuth 211° 15'; northeast corner of car barn, azimuth 12° 05', distance 56.5 feet; bronze tablet stamped "460"	460. 564
B. M. 40, west side of Shelby Street, opposite St. Catherine Street, East; southwest corner of residence No. 1741, azimuth 248° 28', distance 77.9 feet; center of pump, azimuth 324° 42', distance 64 feet; bronze tablet stamped "459"	459. 286

B. M. 41, northwest corner of Breckinridge and Shelby Streets; southwest corner of drug store, azimuth $272^{\circ} 10'$, distance 54.4 feet; southeast corner of grocery store and saloon, azimuth $137^{\circ} 16'$, distance 7.4 feet; bronze tablet stamped "453".....	Feet. 452. 828
B. M. 42, northwest corner of Broadway and Shelby Street; southeast corner of saloon, azimuth $168^{\circ} 46'$, distance 15.8 feet; southwest corner of Neider Bros. grocery store, azimuth $259^{\circ} 46'$, distance 42.5 feet; bronze tablet stamped "449".....	449. 268
B. M. 43, northwest corner of Shelby and Green Streets; southeast corner of Scott's hardware store, azimuth $135^{\circ} 47'$, distance 6.9 feet; southwest corner of Herman's saloon, azimuth $273^{\circ} 37'$, distance 53.3 feet; bronze tablet stamped "460".....	460.173
B. M. 44, northwest corner of Main and Shelby Streets; southwest corner of Methodist Church corner stone, azimuth $261^{\circ} 32'$, distance 60.3 feet; southeast corner of roofing store, azimuth $140^{\circ} 07'$, distance 6.4 feet; bronze tablet stamped "464".....	464. 605
B. M. 45, north corner of Story Avenue and Louisville & Nashville R. R. crossing; north corner of post office station A, azimuth $7^{\circ} 29'$, distance 75 feet; south corner of National Leather Co.'s building, azimuth $189^{\circ} 57'$, distance 7.8 feet; bronze tablet stamped "458".....	458. 447
B. M. 46, north side of Story Avenue and Frankfort Avenue, Southeast; northwest corner of grocery store, azimuth $300^{\circ} 17'$, distance 62.9 feet; corner of saloon, azimuth $226^{\circ} 48'$, distance 12.9 feet; bronze tablet stamped "457".....	456. 842
B. M. 47, west corner of Frankfort Avenue and Haldeman Street, North; northeast corner of store, azimuth $53^{\circ} 18'$, distance 86.6 feet; corner post to B. I. grounds, azimuth $137^{\circ} 08'$, distance 10.7 feet; bronze tablet stamped "510".....	510. 301
B. M. 48, southwest corner of Frankfort Avenue and Keats Street, south; water plug, azimuth $105^{\circ} 20'$, distance 5.9 feet; northwest corner of house, azimuth $272^{\circ} 15'$, distance 30.2 feet; bronze tablet stamped "524".....	523. 822
B. M. 49, southeast corner of Frankfort Avenue and Park Avenue south, corner of Crescent Hill pharmacy, azimuth $74^{\circ} 24'$, distance 55.8 feet; corner of Crescent Drug Co., azimuth $327^{\circ} 07'$, distance 8.6 feet; bronze tablet stamped "538".....	537. 919
B. M. 50, south side of Frankfort Avenue, north of wall to waterworks; water tank nearest corner, azimuth $57^{\circ} 18'$, distance 42.5 feet; corner of stone wall at waterworks, azimuth $348^{\circ} 28'$, distance 7 feet; bronze tablet stamped "553".....	553. 670
B. M. 51, northwest corner of crossing of Brownsboro road and Pipe Line Avenue; north corner of westernmost gatepost to entrance to reservoir grounds, azimuth $332^{\circ} 02'$, distance 68.8 feet; center of water plug, azimuth, $299^{\circ} 09'$, distance 48.2 feet; bronze tablet stamped "554".....	554. 044
B. M. 52, west side of Pipe Line Avenue, or cinder road, 3,750 feet south of Prospect Electric R. R. and 950 feet north of T road east; nail in locust tree, azimuth $18^{\circ} 27'$, distance 21.8 feet; nail in locust tree, azimuth $126^{\circ} 06'$, distance 26.7 feet; bronze tablet stamped "521".....	521. 520
B. M. 53, west side of Pipe Line Avenue or cinder road just north of Prospect Electric R. R.; tree, azimuth $217^{\circ} 45'$, distance 28.7 feet; tree, azimuth $86^{\circ} 22'$, distance 22.1 feet; bronze tablet stamped "441".....	441. 198
B. M. 54, south side of River road about 600 feet west of entrance to golf links; nail in tree, azimuth $78^{\circ} 32'$, distance 92.6 feet; nail in hollow tree, azimuth $154^{\circ} 12'$, distance 40 feet; bronze tablet stamped "432".....	432. 614

B. M. 55, south side of River road opposite G. Hooper's residence; iron pump, azimuth 125° 20', distance 55 feet; north corner of brick house, azimuth 356° 59', distance 58.6 feet; bronze tablet stamped "434".....	Feet. 434. 698
B. M. 56, east side of River road, 678 feet northeast of Louisville & Nashville R. R., nail in telephone pole, azimuth 94° 55', distance 69.4 feet; north corner of house, azimuth 15° 50', distance 64.1 feet; bronze tablet stamped "439" (in front of W. Vest's house).....	439. 335
B. M. 57, north corner of Van Buren and Marion Streets; east corner of house, azimuth 82° 54', distance 60.3 feet; center of pump, azimuth 23° 33', distance 58.8 feet; bronze tablet stamped "437".....	437. 668
B. M. 58, north corner of Fulton and Adams Streets; corner of saloon and grocery, azimuth 337° 11', distance 11.9 feet; northwest corner of sawmill office, azimuth 205° 08', distance 68.8; bronze tablet stamped "441".....	441. 494
B. M. 59, northeast corner of Fulton and Shelton Streets; center of fire plug, distance 61.1 feet; center of westernmost boiler, distance 42.5 feet; bronze tablet stamped "440".....	439. 851
B. M. 60, southwest corner of Seventh and Shipp Streets; center of pump, azimuth 121° 33', distance 6.4 feet; northwest corner of saloon, azimuth 336° 20', distance 5.5 feet; bronze tablet stamped "457".....	457. 678
B. M. 61, west side of Seventh Street road, about 720 feet south of Southern Ry.; nail in small tree, azimuth 64° 42', distance 48.9 feet; nail in telephone pole, azimuth 353° 24', distance 54.1 feet; bronze tablet stamped "465".....	465. 350
B. M. 62, on west side of Seventh Street road, 680 feet south of Thompsons road; northeast corner of Jacob Schafflin's residence, azimuth 57° 17', distance 97.1 feet; nail in telephone pole, azimuth 259° 14', distance 67.6 feet; bronze tablet stamped "458".....	458. 782
B. M. 63, west side of Seventh Street road, at Arcade Avenue southeast; northeast corner of brick dwelling (Jacob Hepp's house), azimuth 132° 01', distance 65.9 feet; southwest corner of G. J. Schmidt's saloon and grocery, azimuth 316° 33', distance 63 feet; bronze tablet stamped "455".....	455. 295
B. M. 64, on west side of Sand River road opposite entrance to Bohemian farm; nail in telephone pole, azimuth 171° 34', distance 30.4 feet; nail in large beech tree, azimuth 266° 33', distance 79.1 feet; bronze tablet stamped "461".....	461. 554
B. M. 65, on east side of Eighteenth Street or Sand River road, at schoolhouse lane west; center of stone post at corner of schoolhouse lane, azimuth 108° 31', distance 47.2 feet; southwest corner of schoolhouse, azimuth 254° 04', distance 80.7 feet; bronze tablet stamped "463".....	463. 128
B. M. 66, on south side of schoolhouse lane just west of entrance to W. T. Hartledge's farm; nail in west gatepost of W. Hartledge road, azimuth 276° 46', distance 54.4 feet; nail in pear tree, azimuth 33° 25', distance 5.3 feet; bronze tablet stamped "464".....	464. 051
B. M. 67, on west side of road, 0.33 mile south of intersection of Cane Run road and Bell's lane; nail in gatepost south side of schoolhouse lane, azimuth 324° 36', distance 22 feet; bronze tablet stamped "451".....	451. 109
B. M. 68, on east side of Taylor Boulevard at Arcade Avenue northwest; south corner of house, azimuth 164° 16', distance 119.6 feet; bronze tablet stamped "455".....	455. 110
B. M. 69, on Taylor Boulevard at junction with Berry Boulevard; southeast corner of saloon, azimuth 123° 10', distance 98 feet; northeast corner blacksmith shop, azimuth 64° 55', distance 108.4 feet; bronze tablet stamped "456".....	456. 195

B. M. 70, on east side of Taylor Boulevard, at Woodland Grove; southeast corner of grocery store, azimuth $107^{\circ} 41'$, distance 79.2 feet; nail in elm tree, azimuth $265^{\circ} 19'$, distance 79.6 feet; bronze tablet stamped "454" ..	Feet. 454. 613
B. M. 71, on east side of Taylor Boulevard, north of Hazlewood Road; nail in locust tree, azimuth $130^{\circ} 57'$, distance 63.8 feet; nail in small sycamore tree, azimuth $57^{\circ} 04'$, distance 43 feet; bronze tablet stamped "474" ...	473. 854
B. M. 72, on west side of Taylor Boulevard, at Joseph App's house; northeast corner of house, azimuth $61^{\circ} 16'$, distance 94.8 feet; nail in telephone pole, azimuth $351^{\circ} 54'$, distance 10.6 feet; bronze tablet stamped "481" ..	481. 040
B. M. 73, on south side of Taylor Boulevard at Third Street Boulevard northeast; south corner of Boone cabin, azimuth $203^{\circ} 25'$; south corner of arch, azimuth $316^{\circ} 35'$, distance 139.5 feet; bronze tablet stamped "493"	493. 211
B. M. 74, on west side of parking to Third Street, about 2,400 feet northeast of end of boulevard; center of lamp post, azimuth $39^{\circ} 06'$, distance 56.8 feet; nail in box elder tree, azimuth $118^{\circ} 31'$, distance 55.2 feet; bronze tablet stamped "472"	471. 946
B. M. 75, on west side of parking to Third Street, 812 feet south of street car line, between Blue Grass and Woodlawn Avenues; nail in blaze on tree, azimuth $188^{\circ} 11'$, distance 69 feet; center of lamp post, azimuth $295^{\circ} 03'$, distance 54.7 feet; bronze tablet stamped "465"	464. 934
B. M. 76, on west side of parking at milepost 1 $\frac{1}{4}$, between Ashland and Park avenues; northeast corner of porch to residence opposite milepost, azimuth $112^{\circ} 18'$, distance 123.8 feet; center of lamp post, azimuth $192^{\circ} 58'$, distance 102.4 feet; bronze tablet stamped "476"	476. 158
B. M. 77, on west side of Third Street boulevard, at milepost 2; blaze on sycamore tree, azimuth $102^{\circ} 02'$, distance 42.7 feet; center of lamp post, azimuth $289^{\circ} 54'$, distance 54.7 feet; bronze tablet stamped "458" (between Lansing and Whitney streets)	458. 491
B. M. 78, on west side of boulevard, 130 feet north of Kenton Avenue; southeast corner of mottled brick residence, azimuth $147^{\circ} 41'$, distance 108.9 feet; center of lamp post, azimuth $240^{\circ} 09'$, distance 61 feet; bronze tablet stamped "456"	456. 618
B. M. 79, on west side of Third Street, 229 feet south of south curb of P Street; nail in poplar tree, azimuth $198^{\circ} 49'$, distance 11.8 feet; Christian Mission, southwest corner of, azimuth $268^{\circ} 07'$, distance 103.4 feet; bronze tablet stamped "457"	457. 780
B. M. 80, on southwest corner of Third Avenue and L Street west; southeast corner of Gass drug store, azimuth $164^{\circ} 47'$, distance 114.1 feet; center of water plug, azimuth $286^{\circ} 59'$, distance 58 feet; bronze tablet stamped "458"	458. 457
B. M. 81, on north end of Triangle Park; southwest corner of Confederate Monument, azimuth $195^{\circ} 30'$, distance 127.8 feet; Louisville Reform School, center of tablet, azimuth $243^{\circ} 19'$, distance 89 feet; bronze tablet stamped "458"	458. 175
B. M. 82, on northwest corner of Third and Hill streets; northeast corner of residence No. 1700, azimuth $59^{\circ} 49'$, distance 80.5 feet; northwest corner of residence No. 1801, azimuth $303^{\circ} 33'$, distance 113.2 feet; bronze tablet stamped "455"	455. 123
B. M. 83, on southwest corner of Main and Jackson streets; northeast corner of retaining wall to yard, azimuth $43^{\circ} 40'$, distance 13.7 feet; northwest corner of American machine shops, azimuth $290^{\circ} 14'$, distance 52.4 feet; bronze tablet stamped "458"	458. 543

B. M. 84, on southeast corner of Main and First streets; northeast corner of Bill Dryer Co.'s building, azimuth $93^{\circ} 34'$, distance 53.3 feet; northwest corner James Thompson & Bros. liquor store, azimuth $299^{\circ} 30'$, distance 10.2 feet; bronze tablet stamped "461".....	Feet. 461. 527
B. M. 85, on northwest corner of Main and Seventh streets; northwest corner of post-office station 23, azimuth $340^{\circ} 03'$, distance 105 feet; southwest corner of drug store, azimuth 282° , distance 49.2 feet; bronze tablet stamped "458".....	458. 359
B. M. 86, on northeast corner of Main and Eleventh streets; southeast corner of Doyle's saloon, azimuth $99^{\circ} 04'$, distance 50.1 feet; northeast corner of J. V. Reed & Co.'s store, azimuth $37^{\circ} 30'$, distance 101.6 feet; bronze tablet stamped "454".....	454. 333
B. M. 87, on northeast corner of Main and Fifteenth streets; southeast corner R. F. Avery & Sons' store, azimuth $109^{\circ} 11'$, distance 52.8 feet; northwest corner of J. B. Gibson's store, azimuth $1^{\circ} 56'$, distance 80.2 feet; bronze tablet stamped "458".....	457. 825
B. M. 88, on northeast corner of Main and Nineteenth streets; pump at southwest corner, azimuth $37^{\circ} 56'$, distance 87.3 feet; saloon at northwest corner, azimuth $100^{\circ} 53'$, distance 50.5 feet; bronze tablet stamped "454".....	454. 602
B. M. 89, on northeast corner of Main and Twenty-fourth streets; dry goods store, southeast corner, azimuth $108^{\circ} 56'$, distance 53.6 feet; northwest corner of American Tobacco Co.'s warehouse, azimuth $2^{\circ} 45'$, distance 80.2 feet; bronze tablet stamped "455".....	455. 090
B. M. 90, on southeast corner of Preston and Burnett streets; crossing gate Louisville & Nashville R. R., azimuth $91^{\circ} 31'$, distance 42.2 feet; switch block to railroad, azimuth $218^{\circ} 22'$, distance 35.3 feet; bronze tablet stamped "453".....	453. 332
B. M. 91, on south corner of Preston and Vandise streets; United Brethren Church, north corner, azimuth $50^{\circ} 01'$, distance 142.6 feet; R. Nussbaum's saloon, southeast corner, azimuth $135^{\circ} 29'$, distance 52.9 feet; bronze tablet stamped "479".....	479. 450
B. M. 92, on southwest corner of Jackson and F streets; southwest corner of Williams' store, azimuth $220^{\circ} 04'$, distance 105.4 feet; northeast corner residence 536 F Street, azimuth $86^{\circ} 31'$, distance 50 feet; bronze tablet stamped "492".....	492. 191
B. M. 93, on east side of Ash Bottom Road, 515 feet north of Southern Ry.; nail in fence post, elevation 483 feet, azimuth $113^{\circ} 17'$, distance 38.7 feet; nail in blaze on west face of locust tree, azimuth $184^{\circ} 28'$, distance 121.9 feet; bronze tablet stamped "483".....	483. 272
B. M. 94, on east side of Ash Bottom Road, just south of entrance to Henry Happhage's farm; nail in blaze on locust tree, azimuth $79^{\circ} 19'$, distance 46 feet; cross on top of corner stone, azimuth $215^{\circ} 20'$, distance 29.6 feet; bronze tablet stamped "484".....	484. 695
B. M. 95, on east side of Ash Bottom Road, just south of bridge; nail in blaze on small tree, azimuth $81^{\circ} 05'$, distance 26.9 feet; southeast corner foundation to bridge, azimuth $205^{\circ} 46'$, distance 22 feet; bronze tablet stamped "467".....	467. 553
B. M. 96, on west side of Ash Bottom Road; corner of small frame house, azimuth $191^{\circ} 50'$, distance 180.2 feet; nail in blaze on wild cherry tree, azimuth $317^{\circ} 54'$, distance 53.7 feet; bronze tablet stamped "470".....	470. 563

B. M. 97, on east side of Ash Bottom Road, at Wanona Avenue; southeast corner of frame house, azimuth $104^{\circ} 34'$, distance 51.8 feet; nail in blaze on water oak tree, azimuth $217^{\circ} 10'$, distance 48.3 feet; bronze tablet stamped "471".....	Feet. 471. 688
B. M. 98, on sidewalk at southeast corner of Pocahontas Avenue and Louisville & Nashville R. R. right of way; southeast corner of retaining wall of culvert abutment, azimuth $76^{\circ} 51'$, distance 38 feet; southwest corner of C. T. John's saloon, azimuth $170^{\circ} 53'$, distance 71 feet; bronze tablet stamped "472".....	472. 710
B. M. 99, on north side of Woodlawn Street at top of hill, 1,579 feet south of railroad crossing; nail in blaze on elm tree, azimuth $143^{\circ} 32'$, distance 18 feet; nail in small cottonwood tree, azimuth $67^{\circ} 02'$, distance 73.7 feet; bronze tablet stamped "479".....	479. 574
B. M. 100, on north side of Phillips Lane, about 200 feet southeast of old Phillip's house; nail in hackberry tree, azimuth $250^{\circ} 32'$, distance 50.5 feet; nail in apple tree, azimuth $131^{\circ} 06'$, distance 10.3 feet; bronze tablet stamped "484".....	484. 602
B. M. 101, on east side of Preston Street road, at Phillips Lane west; nail in elm tree, azimuth $18^{\circ} 26'$, distance 67.4 feet; nail in locust tree, azimuth $321^{\circ} 04'$, distance 49.9 feet; bronze tablet stamped "504".....	504. 077
B. M. 102, on west side of Preston Street road, at Hess Lane northeast; southeast corner of schoolhouse, azimuth $30^{\circ} 54'$, distance 63.4 feet; southeast corner of culvert, at junction of Hess Lane, azimuth $258^{\circ} 48'$, distance 35.3 feet; bronze tablet stamped "506".....	506. 578
B. M. 103, on east side of Hess Lane at Prindell Avenue northwest; nail in telephone pole at corner, azimuth $186^{\circ} 47'$, distance 45.3 feet; nail in blaze of wild cherry tree, azimuth $144^{\circ} 47'$, distance 140.6 feet; bronze tablet stamped "506".....	506. 746
B. M. 104, on southwest corner of Hess Lane and Poplar Level pike; nail in corner of fence post, azimuth $312^{\circ} 52'$, distance 51.2 feet; nail in blaze on locust tree, azimuth $280^{\circ} 27'$, distance 103.5 feet; bronze tablet stamped "518".....	517. 999
B. M. 105, Poplar Level pike and Grays Lane; nail in blaze on small elm tree, azimuth $176^{\circ} 34'$, distance 43.7 feet; nail in blaze on large sycamore tree, azimuth $272^{\circ} 25'$, distance 54.7 feet; bronze tablet stamped "507".....	507. 309
B. M. 106, on south side of Newburg pike at lane south at bridge; northeast corner of stone culvert, azimuth $152^{\circ} 40'$, distance 2.9 feet; nail in blaze on sycamore tree, azimuth $336^{\circ} 15'$, distance 17.5 feet; bronze tablet stamped "457".....	457. 589
B. M. 107, south side of Newburg pike at Ropewalk Lane north; nail in blaze on maple tree, azimuth $212^{\circ} 30'$, distance 75.9 feet; nail in blaze on locust tree, azimuth $144^{\circ} 17'$, distance 37.4 feet; bronze tablet stamped "526".....	526. 285
B. M. 108, north side of Taylorsville road at Ropewalk Lane south, nail in blaze on large sycamore tree, azimuth $129^{\circ} 41'$, distance 71.4 feet; nail in blaze on maple tree, azimuth $56^{\circ} 04'$, distance 78.4 feet; bronze tablet stamped "533".....	532. 771
B. M. 109, on southeast corner of Baxter and Edenside avenues; center of hydrant, azimuth $96^{\circ} 50'$, distance 57.1 feet; center of manhole, azimuth $295^{\circ} 40'$, distance 10 feet; bronze tablet stamped "538".....	537. 875
B. M. 110, on southeast corner of Baxter and Lucia avenues, corner of grocery store, azimuth $42^{\circ} 55'$, distance 20.8 feet; center of hydrant, azimuth $293^{\circ} 40'$, distance 8.9 feet; bronze tablet stamped "517".....	517. 600

B. M. 111, on northwest corner of Baxter and Christy avenues; east corner of saloon, azimuth $141^{\circ} 20'$, distance 15.1 feet; J. E. Kirchdorfer's hardware store, azimuth $331^{\circ} 27'$, distance 55.2 feet; bronze tablet stamped "487"	Feet. 487.388
B. M. 112, on southwest corner of Baxter Avenue and Underhill Street; corner of saloon, azimuth $141^{\circ} 19'$, distance 9.2 feet; corner of brick building, azimuth $329^{\circ} 20'$; bronze tablet stamped "468"	468.330
B. M. 113, north end of parking of Cherokee Parkway at Willow Avenue west; northeast corner of porch of Belvoir apartments, azimuth $113^{\circ} 55'$, distance 77.7 feet; hydrant, azimuth $240^{\circ} 33'$, distance 88.9 feet; bronze tablet stamped "505"	505.453
B. M. 114, on Cherokee Park and Longest Avenue, northwest corner of drive along west side of Cherokee Park; nail in elm tree, azimuth $54^{\circ} 37'$, distance 64.9 feet; corner of stone wall, azimuth $132^{\circ} 11'$, distance 19.9 feet; bronze tablet stamped "468"	468.489
B. M. 115, on southeast corner of Workhouse road and Long Cliff Avenue north; center of fire plug, azimuth $214^{\circ} 19'$, distance 47.2 feet; southeast corner of warehouse, azimuth $147^{\circ} 33'$, distance 62.6 feet, bronze tablet stamped "460"	460.690
B. M. 116, at northwest corner of Long Cliff and Peterson Avenues; nail in elm tree, azimuth $144^{\circ} 28'$, distance 52.2 feet; nail in blaze on small sycamore tree, azimuth $274^{\circ} 21'$, distance 56.5 feet; bronze tablet stamped "461"	460.901
B. M. 117, on south side of Shelbyville road at Cannons lane south; nail in blaze on locust tree, azimuth $141^{\circ} 55'$, distance 162.6 feet; center of pump, azimuth $293^{\circ} 03'$, distance 69.6 feet; bronze tablet stamped "548"	547.854
B. M. 118, at east corner of Workhouse and Shelbyville roads, at St. Matthews; southwest corner of brick foundation to house, azimuth $147^{\circ} 24'$, distance 49.2 feet; center of millstone No. 5, azimuth $34^{\circ} 58'$, distance 32.6 feet; bronze tablet stamped "550"	549.976
B. M. 119, at southwest corner of Workhouse road and Cannons Lane; nail in blaze on large tree, azimuth $68^{\circ} 16'$, distance 104.4 feet; southwest corner stone of culvert, azimuth $337^{\circ} 30'$, distance 11 feet; bronze tablet stamped "541"	541.408
B. M. 120, south side of Workhouse road, 1,935 feet west of Cannons lane; nail in blaze on large tree, azimuth $81^{\circ} 42'$, distance 67.8 feet; nail in telephone pole, azimuth $126^{\circ} 46'$, distance 86.4 feet; bronze tablet stamped "542"	542.586
B. M. 121, south side of Workhouse road, 400 feet west of Stiltz Lane; telephone post, azimuth $54^{\circ} 43'$, distance 25.9 feet; nail in tree, azimuth $285^{\circ} 12'$, distance 39 feet; bronze tablet stamped "545"	545.609
B. M. 122, on J. M. Atherton's farm, at gate about 700 feet south of his house; center of stone-lot monument, azimuth $162^{\circ} 38'$, distance 130.9 feet; nail in small hackberry tree, azimuth $111^{\circ} 25'$, distance 12.5 feet; bronze tablet stamped "544"	544.147
B. M. 123, on north end of road near Alexander's residence and about on Alexander and Cown's property line; nail in blaze on locust tree, azimuth $136^{\circ} 41'$, distance 67 feet; west corner of Alexander's porch, azimuth $265^{\circ} 01'$, distance 146.9 feet; bronze tablet stamped "532"	532.281
B. M. 124, on Woodbourne Avenue, 2,770 feet northeast of Baxter Avenue; nail in blaze on hackberry tree, azimuth $110^{\circ} 46'$; nail in blaze on hackberry tree, azimuth $239^{\circ} 06'$; bronze tablet stamped "560"	559.907

B. M. 125, on Taylorsville road at Woodbourne Avenue, northeast, south side; nail in blaze on cottonwood tree, azimuth $153^{\circ} 18'$, distance 72.4 feet; nail in blaze on cottonwood tree, azimuth $242^{\circ} 10'$, distance 103.7 feet; bronze tablet stamped "551"	Feet. 551. 752
B. M. 126, north side Taylorsville road, east end of siding of electric road; telephone pole on Taylorsville road, azimuth $70^{\circ} 46'$; tree, azimuth $132^{\circ} 36'$, distance 44 feet; bronze tablet stamped "559"	559. 116
B. M. 127, on farm of Dr. Dermatt, north end of private lane, 0.5 mile southeast of Ducks Point; nail in blaze on maple tree, azimuth $40^{\circ} 36'$, distance 101.1 feet; nail in blaze on beech tree, azimuth $3^{\circ} 15'$, distance 73.7 feet; bronze tablet stamped "544"	544. 633
B. M. 128, at entrance to Adam's place, south side of road northwest; north corner of stone gatepost, azimuth $41^{\circ} 29'$, distance 8.9 feet; nail in blaze on small cherry tree, azimuth $162^{\circ} 48'$, distance 38.2 feet; bronze tablet stamped "544"	544. 432
B. M. 129, on north side of Newburg pike, at lane north of Adam's place; west corner of barn, azimuth $254^{\circ} 10'$, distance 121.1 feet; west corner of stone gatepost, azimuth $316^{\circ} 24'$, distance 64.9 feet; bronze tablet stamped "545"	545. 054
B. M. 130, on south side of Newburg pike, at Mrs. Wilder's private road northeast; nail in blaze on locust tree, azimuth $259^{\circ} 48'$, distance 59.6 feet; nail in blaze on elm tree, azimuth $331^{\circ} 04'$, distance 32.2 feet; bronze tablet stamped "471"	471. 528
B. M. 131, on southwest corner of Gass Avenue and Hoertz Street; southeast corner of retaining wall, azimuth $263^{\circ} 31'$, distance 77.4 feet; store No. 1200, azimuth $349^{\circ} 31'$, distance 9.2 feet; bronze tablet stamped "467"	467. 592
B. M. 132, north side of Poplar Level road, 113 feet north of T. Theis's house, 700 feet southeast of Texas Street; nail in locust tree, azimuth $334^{\circ} 28'$, distance 100.6 feet; small locust tree, azimuth $50^{\circ} 53'$, distance 41.2 feet; bronze tablet stamped "468"	468. 286
B. M. 133, west side of Poplar Level pike just north of Clark's lane; west corner of stone culvert, azimuth $306^{\circ} 42'$, distance 59.8 feet; nail in blaze on white oak tree, azimuth $66^{\circ} 08'$, distance 37 feet; bronze tablet stamped "477"	476. 819
B. M. 134, south side of Poplar Level pike; tree, azimuth $335^{\circ} 18'$, distance 31.6 feet; tree, azimuth $112^{\circ} 52'$, distance 13.5 feet; bronze tablet stamped "473" (levelman reports this b. m. loose—disturbed)	473. 686

The following bench marks were adjusted with those in the preceding list:

U. S. Corps of Engineers b. m. 10, on old abutment on south side of canal about 10th Street, near west end of gate recess; north quadrant of cross in circle	Feet. 417. 143
U. S. Corps of Engineers b. m., west side of approach to 27th Street bridge, 14 feet south of engine house; top of iron bar	430. 364
Louisville, at edge of city, Ahren & Otts Standard Manufacturing Co., in northeast corner of building; aluminum tablet stamped "465 ADJ 1903"	465. 074
Courthouse, at front entrance, west end of bottom step, Primary Traverse Station No. 1; bronze tablet stamped "463"	463. 075

Cobb, Eddyville, Fords Ferry, Gracey, Morganfield, Princeton, Providence, and Shawneetown quadrangles.

CALDWELL, CRITTENDEN, TRIGG, AND UNION COUNTIES.

The following are the unadjusted results of the precise leveling of a spur line from Blackburn south to Cerulean. The elevations are based upon a bench mark at Blackburn, determined by United States Geological Survey precise leveling from Duquoin, Ill., and by the precise-level line of the United States Corps of Engineers along Ohio River.

The leveling was done in 1908 by W. H. Monahan.

SHAWNEETOWN QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 88°-88° 15'.]

From Shawneetown, Ill., across Ohio River to Blackburn, Ky., thence east along highway to Henshaw, thence along Illinois Central R. R. to Grove Center.

	Feet.
Blackburn, at southwest corner of abandoned store building; iron post stamped "1906".....	347.521
Blackburn, 0.9 mile east of, on south end of terra-cotta drain under road; cross mark.....	339.34
Blackburn, 1.9 miles east of, north side of road, 200 feet east of top of hill; nail in root of maple tree.....	407.67
Blackburn, 3.6 miles east of, 50 feet southwest of road junction, in fence corner; iron post stamped "1906".....	377.487
Blackburn, 5.2 miles east of, 300 feet west of church, on top of hill, 60 feet east of forks; nail in hub on oak tree 2 feet in diameter.....	461.66
Henshaw, 190 feet north of road crossing, at northwest corner of store kept by H. R. Dyer & Co.; iron post stamped "1906".....	371.286
Henshaw, in front of station; top of rail.....	372.3
Henshaw, 1.1 miles east of, north side of bridge "J E 40-01"; 5th bolt from east end.....	372.06
Henshaw, 2.2 miles east of, 90 feet east of milepost, north side of bridge "J. E. 41-98"; 3d bolt from west end.....	375.63
Grove Center, in front of station; top of rail.....	387.3
Grove Center, 10 feet west of entrance to Charles Omer's store, in sandstone rock; aluminum tablet stamped "1906".....	390.229
Grove Center, 1 mile east of, 60 feet west of crossing, north side of west end of bridge; top of bolt.....	375.05
Harding, 75 feet east of station; iron post stamped "379 1906".....	378.925
Harding, in front of station; top of rail.....	374.2

From Grove Center along Illinois Central R. R. to Sturgis.

Henshaw, 3.3 miles southwest of, in east face of "Anvil Rock," facing railroad track; aluminum tablet stamped "367".....	367.415
Henshaw, 5.1 miles southwest of, on top of concrete post supporting southeast corner of water tank; chiseled square marked "364".....	364.73
Dekoven, in front of station; top of rail.....	364.6
Dekoven, 0.3 mile south of, in northwest corner of cement post of Ohio Valley Coal Co.'s tipple aluminum tablet stamped "364".....	364.746
Dekoven, 2.2 miles south of, in brick foundation post at southwest corner of coal mine office; aluminum tablet stamped "388".....	387.916
Dekoven, 4.1 miles southeast of, in base of signal pole at road crossing; spike marked "368".....	368.53

MORGANFIELD QUADRANGLE.

[Latitude 37° 30'–37° 45'; longitude 87° 45'–88°.]

From Sturgis along Illinois Central R. R. to Sullivan.

Sturgis, on top of bottom bench in step wall on south side of steps, at southwest corner of First Christian Church; aluminum tablet stamped "379 Adj 1908" (reestablished by A. S. Winston, jr.).....	Feet. 379.307
Sturgis, in front of station; top of rail.....	374.5
Sturgis, 1 mile south of, in pier at north end of bridge No. "J. E. 55–59," spike marked "362".....	362.16

PROVIDENCE QUADRANGLE.

[Latitude 37° 15'–37° 30'; longitude 87° 45'–88°.]

From Sullivan along Illinois Central R. R. to Hood.

Sullivan, in front of station; top of rail.....	375.6
Sullivan, in west face of sandstone post 2 feet north of front steps to Munn Brothers' store; aluminum tablet stamped "382".....	382.470
Blackford, in front of station; top of rail.....	368.2
Blackford, 0.2 mile southwest of, in northwest stone of north abutment of iron drawbridge over Tradewater River; aluminum tablet stamped "362".....	361.876
Nunns, in front of station; top of rail.....	375.0
Nunns, 0.3 mile southwest of, in sandstone rock 100 feet east of bridge "J. E. 65–14," 20 feet east of road, 200 feet north of road crossing; aluminum tablet stamped "382".....	381.982
Nunns, 0.9 mile southwest of, on north edge of rock cut on west side of track; chiseled square marked "409".....	409.70

FORDS FERRY QUADRANGLE.

[Latitude 37° 15'–37° 30'; longitude 88°–88° 15'.]

From Hood along Louisville & Nashville R. R. to Mexico.

Hood, 300 feet west of north switch stand, 30.5 feet west of west rail at post marked "J. E. 66–52," in ledge of limestone rock; aluminum tablet stamped "444".....	444.268
Hood, in front of station; top of rail.....	448.3
Repton, on west edge, 30 feet north of south end of platform in front of station; iron bolt.....	485.25
Repton, 50 feet east of center of road crossing, 15 feet south of east-west road, 3 feet south of fence corner, 2 feet west of fence line; iron post stamped "482".....	482.585
Repton, in front of station; top of rail.....	484.9
Repton, 2.2 miles southwest of, on southeast side of tracks; chiseled square on drainage pipe.....	522.99
Repton, 2.3 miles southwest of, in angle of split-rail fence, 15 feet west of gate at second-class road crossing, 30 feet east of whistle post on southeast side of tracks, 1,000 feet northeast of bridge "J. E. 71–52"; iron post stamped "526".....	526.771
Marion, in front of station; top of rail.....	582.8
Marion, 140 feet south of center of station, on edge of platform; iron bolt..	583.88
Marion, at southeast corner of yard of Jack Baker, in sandstone wall on inside of fence line, 1 foot from fence corner; aluminum tablet stamped "594".....	594.252

Marion, 2.9 miles south of, 300 feet north of bridge "J. E. 77-38," 90 feet east of track, in top of stone protruding from ground; aluminum tablet stamped "642".....	Feet. 642. 048
Crayne, on station platform; iron bolt.....	643. 30
Crayne, in front of station; top of rail.....	643. 3
Crayne, in southwest corner stone of general store kept by N. J. Bishop, opposite station; aluminum tablet stamped "643".....	643. 111

KUTTAWA QUADRANGLE.

[Latitude 37°-37° 15'; longitude 88°-88° 15'.]

From Mexico along Louisville & Nashville R. R. to Baker.

Mexico, in front of station; top of rail.....	493. 5
Mexico, 0.1 mile south of, 600 feet south of station, opposite post "J. E. 82-18" on west side of tracks, 2 feet east of right of way fence, in limestone post 6 by 8 by 25 inches; aluminum tablet stamped "491".....	491. 068
Livingston, in front of water tank (or station); top of rail.....	370. 0
Fredonia, opposite station, at northwest corner of G. H. Rice's pasture; iron post stamped "402".....	402. 534
Fredonia, in front of station; top of rail.....	403. 9

PRINCETON QUADRANGLE.

[Latitude 37°-37° 15'; longitude 87° 45'-88°.]

From Baker southeast to Cobb.

Baker, in front of station; top of rail.....	470. 8
Baker, 1.2 miles southeast of, 0.2 mile east of signboard, at point of curve, on south side of track, in ledge of limestone; aluminum tablet stamped "494".....	494. 190
Crider, in foundation stone of cistern well at southeast corner of Crider's store; aluminum tablet stamped "469".....	469. 662
Crider, in front of station; top of rail.....	466. 5
White Sulphur, in front of station signboard; top of rail.....	500. 5
White Sulphur, 1.7 miles southeast of, inside of south right-of way fence, 75 feet southwest of whistle post, in rock post 6 by 6 by 30 inches; aluminum tablet stamped "548." (Not found in 1908.).....	548. 070
Princeton, in front of station; top of rail.....	483. 6
Princeton, in top of stone between two concrete columns 10 feet south of entrance of Hotel Henrietta; aluminum tablet stamped "489".....	489. 422
Princeton, 2.8 miles southeast of, 40 feet west of north end of bridge "J. E. 102-12," in top of sandstone ledge; aluminum tablet stamped "471".....	471. 380
McGowan, 150 feet north of station, on west side of track, 30 feet west of west rail, in limestone ledge; aluminum tablet stamped "484".....	484. 295
McGowan, in front of station; top of rail.....	490. 9
Otter Pond, at northeast corner of station; iron post stamped "544." (Station reported burned in 1908.).....	544. 567
Otter Pond, in front of station; top of rail.....	543. 9

COBB QUADRANGLE.

[Latitude 36° 45'-37°; longitude 87° 45'-88°.]

From Cobb to Cerulean.

Cobb, in front of station; top of rail.....	462. 9
Cobb, at southwest corner of store occupied by S. C. Sizenore, opposite station, north side of track at road crossing; iron post stamped "462"....	462. 687
Cobb, 2 miles southeast of, in right of way fence corner, southwest side of track opposite northernmost section house; iron post stamped "438"....	437. 943

GRACEY QUADRANGLE.

[Latitude 36° 45'–37°; longitude 87° 30'–87° 45'.]

At Cerulean.

Cerulean, 0.2 mile west of station, on south side of west abutment of bridge “J. E. 113–96”; aluminum tablet stamped “Prim. Trav. Sta. No. 20, 1907, 455”.....	Feet. 454. 921
Cerulean, in front of station; top of rail.....	457. 8
Cerulean, 1.3 miles southeast of, in fence corner on south side of track, 150 feet east of signpost “Cerulean 1 mile”; iron post stamped “471”.....	471. 419
Cerulean, 1.3 miles southeast of, 40 feet north of signboard “Cerulean 1 mile,” south of north right of way fence, in limestone rock 10 by 10 by 30 inches; aluminum tablet stamped “477”.....	477. 779

PRIMARY LEVELING.

Ceredo, Grayson, Greenup, Louisa, and Webbville 15' (Kenova 30') quadrangles.

BOYD, CARTER, LAWRENCE, AND ELLIOTT COUNTIES.

The elevations in the following list are based upon a bronze tablet at Kenova, W. Va., in the west side of the doorsill at the entrance to the men's waiting room at Union Station. The elevation of this tablet is accepted as 566.818 feet above mean sea level. The initial height from which these elevations are derived is that determined for B. M. 316 A of the Ohio River Survey, Corps of Engineers, U. S. A., at Catlettsburg, Ky.

The leveling was done in 1900 by J. E. Buford, except a part in Kenova and Louisa quadrangles, which was done by C. H. Semper.

GREENUP QUADRANGLE.

[Latitude 38° 30'–38° 45'; longitude 82° 45'–83°.]

From Haverhill, Ohio, to Greenup, Ky., thence along Eastern Kentucky Ry. to Argillite.

Greenup, county building, at right of entrance to clerk's office, set vertically in stone step; bronze tablet stamped “538 I”.....	Feet. 539. 904
Riverton, 1.5 miles south of, railroad bridge 150 feet south of road crossing, on abutment at southwest corner of bridge; chisel mark.....	554. 60
Argillite, 1,320 feet south of, east side of north end of Argillite Tunnel, 8.9 feet higher than top of rail, in sandstone ledge; bronze tablet stamped “567 K 1900”.....	566. 342

From Greenup south to mouth of Whetstone Creek.

Greenup, 2.5 miles southwest of, 750 feet southwest of log house, on north side of road, in south end of sandstone boulder 7 by 10 by 25 feet; bronze tablet stamped “578 I”.....	579. 981
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CEREDO QUADRANGLE.

[Latitude 38° 15' - 38° 30'; longitude 82° 30' - 82° 45'.]

**From Kenova along Chesapeake & Ohio and Big Sandy railroads to Rockville, Ky.
(Buchanan).**

Savage, 2.6 miles north of, on west side of highway crossing, 40 feet from center of track and 10 feet from center of highway, on sandstone ledge; chisel mark	Feet. 552.34
Savage, 870 feet north of station, at southeast corner of highway bridge; bridge seat; chisel mark	541.16
Savage, in front of station; top of west rail	547.0
Savage Branch station, 1 mile south of, David Lockwood's house, in foundation on left side of front steps; bronze tablet stamped "586 K" ..	586.013
Lockwood, in front of station; top of east rail	544.2
Cavanaugh Church, in front of flag station; top of east rail	581.2

From Bolts Fork north via Cannonsburg to Ashland.

Bolts Fork, 600 feet north of post office, highway bridge over Bolts Fork, at southeast corner bridge seat; bronze tablet stamped "652 K"	652.467
Mavity, 0.8 mile north of, at forks of road 105 feet south of log house, 51 feet south of sycamore, on abutment at southwest corner of bridge; chisel mark	604.98
Cannonsburg, southeast corner of post-office building, 93 feet from railroad crossing; bronze tablet stamped "604 K"	604.771
Meads station, 0.5 mile south of, on Ashland Coal & Iron Ry., 200 feet southwest of house on west side of road, on cornerstone at west end of culvert; chisel mark	590.82
Meads station, 1 mile north of, 81 feet north of small bridge, 15 feet east of center of road, in sandstone boulder; bronze tablet stamped "638 K" ..	639.121
Ashland, Chesapeake & Ohio Ry. station, on Carter Avenue between 12th and 13th streets, south side of building, 2 feet higher than ground; bronze tablet stamped "556 K"	556.431

From Ashland along Chesapeake & Ohio Ry. via Catlettsburg to Hampton.

Ashland, 1.5 miles east of, on Chesapeake & Ohio Ry. girder bridge over electric railway, on top stone at south end of west wing wall; chisel mark	555.64
Catlettsburg, Louisa Street, between Franklin and Clay streets, in court-house yard, northwest corner of clerk's office, 1 foot above water table; aluminum tablet stamped "549 K 1900"	550.203
Catlettsburg, Big Sandy National Bank (U. S. Engineers b. m. 316 A), on window sill; chisel mark "U. S. B. M."	548.588

LOUISA QUADRANGLE.

[Latitude 38° - 38° 15'; longitude 82° 30' - 82° 45'.]

From Buchanan west to Mayhew.

Buchanan, in front of station; top of east rail	558.2
Buchanan, 150 feet south of, overhead railway bridge (B. S. 189), in top stone at east end of north pier; bronze tablet stamped "554 K 1900" ...	554.131
Mayhew, 850 feet west of post office, at northeast corner of bridge over Bolts Fork Creek, 4 feet lower than bridge, on bridge seat; chisel mark ..	682.08

From Buchanan south along Chesapeake & Ohio Ry. to Gallup.

Buchanan, 1.7 miles south of, trestle No. 206, in guard rail at southeast end; top of bolt.....	Feet. 562.93
Fullers, 300 feet north of station, 5 feet west of railroad at east edge of highway, 30 feet north of white house, in sandstone ledge; bronze tablet stamped "572 K 1900".....	570.774
Potters, in front of station; top of rail.....	573
Louisa, U. S. Engineers' b. m. 13, Big Sandy at Lock No. 3, in Engineers office yard.....	568.981
Louisa County courthouse, north face, west side, in foundation; aluminum tablet stamped "584 K 1900".....	582.319
Gallup, G. C. McClure's house, in stone step; bronze tablet stamped "591 K 1900".....	589.270
Gallup, 0.6 mile west of, U. S. Engineers b. m. 5, Big Sandy, 50 feet south of west end of trestle No. 403.....	590.189

From Gallup west to Prosperity.

Adams, 2 miles south of post office, M. R. Hayes's residence, in southwest corner of foundation; bronze tablet stamped "667 K 1900".....	666.491
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From Irad north 5 miles, thence southeast via Yatesville to Louisa.

Yatesville, 3 miles northwest of, in field, 45 feet south of center of road, 135 feet from southwest corner of Green Valley schoolhouse, in north side of large sand rock; bronze tablet stamped "598 K 1900".....	596.756
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GRAYSON QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 82° 45'-83°.]

From Mayhew west to Denton, thence northeast along Chesapeake & Ohio Ry. to Princess, thence east to Cannonsburg.

Denton, 4.5 miles east of, on top of hill, 60 feet north of road, at old road going north, old abandoned frame house, on foundation at southeast corner; chiseled square.....	905.29
Denton, Chesapeake & Ohio Ry. station, 200 feet northeast of, 16 feet east of center of main track, on top stone; chisel mark.....	669.74
Denton, 1.5 miles northeast of, 200 feet north of road crossing at southwest end of Mean's tunnel on Chesapeake & Ohio Ry., 15 feet west of highway, in sandstone ledge; bronze tablet stamped "787 K 1900".....	787.694
Grant station, girder bridge No. 11, 30 feet west of switch stand near station, at southwest corner of bridge, on bridge seat; chisel mark.....	685.82
Geigersville, 800 feet north of Rush post office, 600 feet south of coal dump, 330 feet south of road crossing, at southwest corner of railroad bridge No. 10, in bridge seat; bronze tablet stamped "639 K 1900".....	639.342
Coalton station, west of tool house near, at northeast corner of railroad bridge No. 6, bridge seat; chisel mark.....	614.93

From Argillite southeast via Naples to Princess.

Naples, 1,300 feet north of post office, at southwest corner of overhead highway bridge across East Fork Creek on or near Boyd-Greenup county line, in bridge seat; bronze tablet stamped "571 K 1900".....	570.739
Princess, 3.25 miles northwest of, at northeast corner of highway bridge over Williams Creek, east of log house, on abutment bridge; chisel mark.....	571.57

From Argillite southwest via Oldtown and Euclid, thence north to head of Clay Lick Creek (single spur line).

Oldtown, Mrs. Womack's house, 350 feet north of Oldtown Creek bridge, west side of road, in foundation stone on east side of house, 6 feet from southeast corner; bronze tablet stamped "558 K 1900"	Feet. 556. 743
Clay Lick Creek, head of, on ridge where road turns to right to go down Clay Lick, near where schoolhouse was, on north side of road between J. H. Hally's and W. J. Hally's, in ledge; bronze tablet stamped "957 K 1900"	956. 245

From Oldtown south to Hopewell, thence south along Eastern Kentucky Ry. to Grayson.

Grayson, 0.4 mile west of railroad, at southeast corner of foundation of courthouse; aluminum tablet stamped "686 K 1900"	684. 896
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From Grayson east via Seney to Kilgore.

Grayson, 5.6 miles east of, on north side of road, 15 feet from center of road, near top of Brib Hill, in sandstone ledge; bronze tablet stamped "834 K 1900"	832. 774
Kilgore, 1.3 miles west of, in road between W. C. Hargio's residence and the old store of Norton Iron Works, on sandstone boulder; chisel mark..	661. 24

From Grayson south along Eastern Kentucky Ry. to point 0.5 east of E. K. Junction.

Grayson, 0.5 mile south of, at southeast corner of railroad bridge over Little Sandy River, on abutment; chisel mark.....	588. 59
E. K. Junction, 0.5 mile east of Chesapeake & Ohio Ry. bridge No. S 442, at southwest corner of, on bridge seat; chisel mark.	603. 93

WEBBVILLE QUADRANGLE.

[Latitude 38°-38° 15'; longitude 82° 45'-83°.]

From point 0.5 mile east of Eastern Kentucky Junction along Eastern Kentucky Ry. to Willard.

Willard, 3.0 miles north of, 6 feet from southwest corner of railroad bridge No. 9, on abutment; chisel mark.....	613. 50
Willard, 1,400 feet east of station, railroad bridge No. 15 over Dry Fork, at northeast corner of, in bridge seat; bronze tablet stamped "625 K 1900".	624. 362

From Willard southeast along Eastern Kentucky Ry. to Webbville, thence south along public road via Ironton Hill to Blaine.

Webbville, 5.8 miles south of, south of small house near south of forks of road, on west side, 30 feet from center of, in sandstone ledge; bronze tablet stamped "916 K 1900"	914. 826
Cherokee, 0.5 mile north of mouth of Cherokee Creek, east of road, south of small house, in sandstone ledge; bronze tablet stamped "646 K 1900" ..	645. 487

From Blaine west along Blaine Creek to Martha, thence north via Sarah to Willard.

Blaine, 0.3 mile west of, at northwest corner of highway bridge over Blaine Creek, on bridge seat; chisel mark.....	655. 84
Martha, 0.4 mile north of, on east side of road, 25 feet higher than road, 36 feet north of oak tree on same side of road, in sandstone ledge; bronze tablet stamped "736 K 1900"	735. 454
Fielden, 2.0 miles east of, at Pennington's store, near mouth of Hurricane Creek, on south side of road, in foundation under northeast corner of W. L. Pennington's house; bronze tablet stamped "698 K 1900"	696. 821
Willard, 5.0 miles southwest of, on west bank of Little Fork Creek, 0.5 mile north of Levi Pennington's, in sandstone ledge between public road and creek; bronze tablet stamped "650 K 1900"	649. 625

From Blaine Creek northeast via Prosperity to Irad.

Irada, 2.0 miles west of, 0.25 mile east of log schoolhouse, on north bank of Blaine Creek on south side and 5 feet from center of road, west of house near, in large sand rock; bronze tablet stamped "630 K 1900".....	Feet. 629. 684
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Cornettsville, Goodloe, Hindman, Inez, Laynesville, Oven Fork, Paintsville, Pound, Regina, and Virgie quadrangles.

FLOYD, JOHNSON, KNOTT, LAWRENCE, LETCHER, AND PIKE COUNTIES.

The leveling was done as follows: In Goodloe, Hindman, and Virgie quadrangles in 1912 by S. R. Archer; in Inez and Paintsville quadrangles in 1909 by Archer; in Regina quadrangle in 1912 by C. W. Arnold; in Pound quadrangle in 1912 by Archer, Arnold, and H. S. Senseney, and in 1913 by Archer; in Laynesville and Virgie quadrangles in 1912 and 1913 by Archer; and in Cornettsville and Oven Fork quadrangles in 1913 by Archer.

GOODLOE QUADRANGLE.

[Latitude 37° 30'–37° 45'; longitude 82° 45'–83°.]

From point near Bosco northeast along highway down right fork of Beaver Creek to Stevens Branch.

Ballard, 2.3 miles north of, at road forks at old Hueysville post-office building on east side of road forks; copper nail in stump, marked "685.8"...	Feet. 685. 61
Bosco, 1.1 miles southwest of, in northeast corner of front yard of residence of Mrs. Helen Gerhart, west end of loop in road and Beaver Creek, west side of road, 230 feet south of bend in road to east; copper nail in root of 6-inch locust tree, marked "689.3".....	689. 12
Bosco, at mouth of Brush Creek, 90 feet north of road forks, 220 feet north of crossing of Brush Creek, 80 feet north of Allen's store, on west side of road, in face of rock ledge; aluminum tablet stamped "675".....	675. 153
Bosco, 0.6 mile northeast of, at milldam across Beaver Creek, 100 feet north of mouth of Beaver Creek, west side of Little Middle Creek, west side of gate, north side of road; nail in log retaining wall, marked "662.8".	662. 61
Bosco, 1 mile northeast of, at crossing of small branch from north, 80 feet southwest of front of residence of Job Turner, north side of road, west side of branch; nail in root on north side of ash tree, marked "675".....	674. 84
Langley, 1.9 miles southeast of, top of hill in front of barn standing in field on east side of road, opposite mouth of Goose Creek, west side of road, 60 feet south of hilltop; nail in root on north side of 2-foot oak tree, marked "785.95".....	785. 77
Langley, 1.4 miles southeast of, northeast corner of bridge over small creek from west, at private road northwest to residence of Tom Osborne, 340 feet north of forks with road leading southeast up Goose Creek; nail in trunk of 2½-foot sycamore tree, marked "664.4".....	664. 21
Langley, 0.8 mile southeast of, summit of road crossing at point of ridge, east side of road, inside of fence above and north of residence of Ballard Martin; nail in root of 1-foot elm tree, marked "720.3".....	720. 16
Langley, on bank west side of road, 460 feet north of bridge over mouth of Wilsons Creek, 200 feet north of store, 375 feet northwest of schoolhouse, in face of rock outcrop; aluminum tablet stamped "673".....	672. 800
Langley, 1.1 miles northeast of, south side of mouth of Sam Mays Branch, 275 feet south of Sam May's store, west bank of Beaver Creek, east side of road; nail in root of 2-foot elm tree, marked "652".....	651. 76

Langley, 1.8 miles northeast of, southeast corner of plank bridge over mouth of Henrys Branch, at second-class road to east; chiseled square on flat stone, marked "650.6"	Feet. 650.36
Langley, 2.9 miles northeast of, east side of road, 125 feet west of road crossing small branch from east, 275 feet north of Preston & Co.'s store, 360 feet north of residence of Mrs. Otter Preston, in face of rock ledge; aluminum tablet stamped "674"	673.867
Alphoretta, 2.1 miles west of, at mouth of small branch from south, at residence of George Allen, under northwest corner of log shed on south side of road at third-class road south; chiseled square on top of stone foundation, marked "654.4"	654.21
Alphoretta, 1.2 miles northwest of, at bend of road to south, opposite mouth of Stevens Branch, on west side of road; nail in root on west side of 2-foot oak tree, marked "717.6"	717.41
From Prestonsburg north along Chesapeake & Ohio Ry. down Levisa Fork of Big Sandy River to East Point.	
Prestonsburg, 0.4 mile southeast of, at mouth of Town Branch, east concrete abutment of undergrade crossing; chiseled square on top of south end of bridge seat, marked "635.6"	635.33
Prestonsburg, steel highway bridge over Big Sandy River, in top of south end of west abutment of west approach; aluminum tablet stamped "641"	640.688
Prestonsburg, in front of station; top of west rail	637.2
Prestonsburg, 1.5 miles north of, 500 feet south of Cliff station, north concrete abutment of Chesapeake & Ohio Ry. bridge No. 727; chiseled square on top of west end of parapet wall, marked "635.0"	634.72
Cliff, in front of station; top of rail	635.7
Prestonsburg, 2.6 miles northeast of, west side of track and road, 330 feet north of crossing, 645 feet north of schoolhouse; spike in base of telegraph pole, marked "633.2"	632.92
Prestonsburg, 3.5 miles northeast of, east side of track at mouth of hollow from west; spike in base of telegraph pole, marked "627.45"	627.14
Auxier, 2.6 miles south of, 0.9 mile southeast of mouth of Fryleys Branch, 420 feet south of milepost 470-E 58, 500 feet south of house owned by William Music, on west side of track; top of north end of concrete culvert at cattle guard; aluminum tablet stamped "627"	626.683
Auxier, 1.8 miles south of, at mouth of Fryleys Branch, in front of house standing on west side of track, 120 feet north of culvert, at private road crossing, top of southwest corner of cattle guard; painted bolthead, marked "631.9"	631.62
Auxier, 0.8 mile southeast of, concrete under grade crossing at Marry Luck mine, west concrete abutment; chiseled square on top of south end of bridge seat, marked "628.7"	628.38
Auxier, southeast corner of station platform; chiseled square on top of concrete curbing, marked "630.3"	629.97

HINDMAN QUADRANGLE.

[Latitude 37° 15'—37° 30'; longitude 82° 45'—83°.]

From Hindman along highways south to Carr Fork, thence east to a point near Pine Top, thence northeast to Dama, thence north down Right Fork of Beaver Creek, southwest up Salt Lick Creek, south down Mill Branch, and west down Bald Fork to Vest.

	Feet.
Hindman, 2 miles west of, 0.05 mile south of mouth of Augdon Branch, east side of road, in rock cliff; aluminum tablet stamped "1015".....	1, 015. 709
Hindman, 0.8 mile west of, in front of Robert Amburgey's residence, at road crossing on Amburgey's Branch, south side of road, west side of branch; copper nail in root of basswood tree, marked "1021.9".....	1, 021. 91
Hindman, in southeast corner stone of foundation to Knott County courthouse; aluminum tablet stamped "1032".....	1, 032. 086
Hindman, 0.5 mile southeast of, 140 feet west of Hubbard Francis Branch, south side of road, east side of street south at fence corner; copper nail in 6-inch walnut tree, marked "1042.4".....	1, 042. 37
Hindman, 1 mile southeast of, southeast corner of creek intersections at mouth of creek from east; paint mark on fence board, marked "1031.9".	1, 031. 89
Hindman, 1.5 miles southeast of, opposite mouth of Perkins Branch, south end of small drain at road forks; chiseled square on top of stone, marked "1061.4".....	1, 061. 34
Hindman, 2.2 miles southeast of, at mouth of Parks Branch, at residence of A. L. Hale, northeast corner of plank bridge; chiseled square on top of stone, marked "1049.1".....	1, 049. 12
Hindman, 2.8 miles southeast of, 60 feet southwest of center of road forks at mouth of Trace Fork, at foot of fence post at small buckeye tree; chiseled square on top of stone, marked "1076.0".....	1, 075. 98
Hindman, 3.6 miles southeast of, 0.7 mile south of mouth of Trace Fork, 0.2 mile north of Shade Stacey's residence, west side of road, 60 feet south of house on west side of stream crossing, in top of large stone; aluminum tablet, stamped "1100".....	1, 099. 834
Hindman, 4.4 miles southeast of, at head of Trace Fork, at forks of creek and road leading southwest to Irishmans Creek, in bed of creek at junction; chiseled square on top of large rock, marked "1178.0".....	1, 177. 96
Hindman, 5.1 miles southeast of, south side of gap between Trace Fork and bed of Troublesome Creek, 75 feet south of schoolhouse, at bend in creek northeast, east side of road, in bed of creek; chiseled square on top of large rock, marked "1302.6".....	1, 302. 60
Hindman, 6.1 miles southeast of, 1.7 miles north of Carr Fork, east side of road at forks of bed of Troublesome Creek, 150 feet south of forks, copper nail in root of 2-foot beech tree, marked "1152".....	1, 151. 94
Hindman, 7 miles southeast of, 1 mile north of mouth of Troublesome Creek, 60 feet south of forks of creek at Link Toliver's store, east side of forks; chiseled square on top of rock ledge, marked "1088".....	1, 087. 94
Hindman, 8 miles southeast of, 200 feet north of mouth of Troublesome Creek, 40 feet south of Finley Bentley's store, east side of road, at fence line, on Carr Fork; chiseled square on top of large rock, marked "1035.95".....	1, 035. 90
Pine Top, 4.3 miles southwest of, 635 feet east of mouth of Troublesome Creek, north bank of Carr Fork, south side of road, 20 feet from water's edge, in top of large rock; aluminum tablet stamped "1034".....	1, 034. 444
Pine Top, 3.4 miles southwest of, at mouth of hollow from south, at bend in road to east, 400 feet southeast of Jeff. Bentley's residence, south side of road; copper nail in root of soft maple tree, marked "1052.3".....	1, 052. 22

Pine Top, 2.7 miles southwest of, 350 feet north of mouth of Smiths Branch, on west side of road at road forks, at northeast corner of schoolhouse yard, at foot of corner fence post; chiseled square on top of stone, marked "1059.8"	Feet. 1, 059. 74
Pine Top, 2.1 miles southwest of, north side of creek at mouth of Steer Fork, south side of road; copper nail in root of center one of three sycamore trees, marked "1,065.0"	1, 064. 98
Pine Top, 1.2 miles southwest of, 200 feet east of Alexander Martin's residence, at bend in Carr Fork to east, bench in road to north, east side of road, 10 feet south of telephone pole at fence line; copper nail in stake, marked "1077.1"	1, 077. 06
Pine Top, 0.5 mile west of, 600 feet north of road forks, in bed of creek on west side, at mouth of Muddy Fork or Branhams Creek, in rock ledge; aluminum tablet stamped "1093"	1, 092. 550
Pine Top, 0.5 mile west by 1 mile north of, at residence of Joseph Reynolds, on east bank of Branhams Creek, in mouth of creek from east; chiseled square on top of large rock, marked "1149.5"	1, 149. 38
Pine Top, 0.5 mile west by 1.7 miles north of, in center of road forks, at road leading west through gap to head of Right Fork of Troublesome Creek; copper nail in base of telephone pole, marked "1206.7"	1, 206. 59
Pine Top, 0.5 mile west by 2.2 miles north of, at foot of south side of hill between heads of Branhams Creek and Caney Fork, in bed of creek, on north side of road, at bend in road to northeast; chiseled square on top of rock, marked "1284.4"	1, 284. 33
Pine Top, 0.5 mile west by 2.4 miles north of, at top of divide between heads of Branhams Creek and Caney Fork, west side of road; chiseled square on top of stone, marked "1475.5"	1, 475. 41
Hollibush, 4 miles southwest of, forks of Caney Fork at foot of north side of divide between heads of Branhams Creek and Caney Fork, 15 feet south of intersection of creeks, west side of creek; chiseled square on top of stone, marked "1190.4"	1, 190. 33
Hollibush, 3.2 miles southwest of, 200 feet north of road forks at road leading southwest to head of Right Fork of Troublesome Creek, on east bank of Caney Creek, in face of rock ledge; aluminum tablet stamped "1093"	1, 092. 898
Hollibush, 2.6 miles southwest of, south side of road, at fence line, opposite and 120 feet west of mouth of Trace Fork, 585 feet west of schoolhouse; chiseled square on top of large rock, marked "1035.4"	1, 035. 30
Hollibush, 1.7 miles southwest of, 350 feet northeast of creek to south, north side of road, at west end of rock ledge; chiseled square on top of large rock, marked "970.4"	970. 28
Hollibush, 0.8 mile west of, at foot of point on east side of creek, 75 feet southeast of private road west, at bend in Caney Fork to south; chiseled square on top of large rock, marked "912.6"	912. 50
Hollibush, 225 feet east of mouth of Hollibush Creek, in front of schoolhouse, north side of creek, in face of rock ledge; aluminum tablet stamped "873"	872. 395
Hollibush, 0.9 mile northeast of, at mouth of Hemp Patch Branch, at southwest corner of junction of creeks; chiseled square on top of stone, marked "845.8"	845. 71
Hollibush, 1.7 miles northeast of, west side of Caney Fork, 75 feet north of mouth of branch from west, on east side of road; copper nail in base of small sycamore tree, marked "827.3"	827. 20

Hollibush, 2.4 miles northeast of, on west side of Caney Fork, 75 feet north-west of mouth of Bill Stones Branch; chiseled square on top of large rock, marked "808.8"	Feet. 808.66
Hollibush, 3.3 miles northeast of, 2.2 miles southwest of Raven, at mouth of Huff Branch, northeast corner of creek intersection; copper nail in root of 2½-foot beech tree, marked "790.3"	790.22
Raven, 1.5 miles west of, east side of Caney Fork, 30 feet south of road crossing, opposite mouth of Gibsons Branch, in face of rock ledge; aluminum tablet stamped "776"	775.444
Raven, 0.8 mile west of, east side of creek, north side of road at road crossing on Caney Fork; chiseled square on top of large rock, marked "759.3" ..	759.16
Raven, in southwest corner of foundation to store of Green Sloan; chiseled square on top stone of, marked "749.1"	749.01
Dema (mouth of Caney Fork), 0.7 mile west of, at bend in Caney Fork to southeast, 0.3 mile northwest of mouth of Grassy Gap Branch, on north side of creek at waters edge, 45 feet southeast of buckeye tree, 140 feet northwest of beech tree; chiseled square on top of large rock, marked "720.6"	720.51
Dema, 140 feet east of store of Kune Sloan, on south side of road; chiseled square on top of stone	712.80
Dema, west bank of Beaver Creek, 160 feet south of mouth of Caney Fork, in face of rock cliff; aluminum tablet stamped "711"	711.100
Dema, 1.6 miles north of, 170 feet north of residence of John Saliers, on east bank of Beaver Creek, west side of road; copper nail in root of 18-inch beech tree, marked "714.4"	714.28
Lackey, 3 miles southeast of, 50 feet north of mouth of Mill Creek, on east bank of Beaver Creek, west side of road; copper nail in root of 14-inch elm tree (second tree from south end of row of trees), marked "699.8" ...	699.65
Lackey, 2.5 miles southeast of, west side of road, south side of Steels Creek at road forks; chiseled square on top of flat rock, marked "701.8"	701.66
Lackey, 1.7 miles southeast of, west side of road, south bank of Martins Branch, at residence of W. J. Martin, at road crossing Martins Branch; copper nail in root of 15-inch walnut tree, marked "701.4"	701.28
Lackey, 0.7 mile southeast of, east end of loop in Beaver Creek to east, 100 feet south of road crossing creek, at foot of small buckeye tree, east side of road and at mouth of branch from east (second branch east of Lackey); chiseled square on top of large rock, marked "709.5"	709.37
Lackey, 110 feet north of road forks (road leading northwest up Jones Fork), west side of small creek and private road from north, 60 feet east and 100 feet north of company store, north side of Beaver Creek, in face of rock ledge; aluminum tablet stamped "695"	694.689
Lackey, 0.8 mile northwest of, west side of road, east side of Beaver Creek, 125 feet north of Martin & Martin's store, 20 feet south of east end of swing foot bridge over Beaver Creek; chiseled square on top of flat rock, marked "690.6"	690.40
Lackey, 1 mile northwest of, at mouth of Stone Coal Branch, 50 feet southeast of center of road forks, at fence line; copper nail in trunk of 6-inch sycamore tree, marked "686.5"	686.33
Ballard, just north of mouth of Rock Fork, east side of Beaver Creek, south side of road forks, copper nail in top of 2-inch plank driven in ground at foot of north post of wooden anchor posts to swing foot bridge, marked "683.3"	683.14

Ballard, 1 mile north of, in front of residence of Tom Martin, on south bank of Beaver Creek, north side of road; copper nail in root of 20-inch elm tree, marked "683.9"	Feet. 683. 77
Ballard, 1.7 miles north of, on Salt Lick, 70 feet southeast of mouth of Reeds Branch, east side of road, north side of private road east to residence of Joseph Reed; copper nail in base of corner fence post, marked "672.8"	672. 61
Ballard, 2.1 miles north of, at mouth of Salt Lick Creek, 0.2 mile east of road forks, south side of road, at northeast corner of Church and Odd Fellows Hall, in square stone foundation, east face; aluminum tablet stamped "690"	690. 106
Ballard, 2.3 miles north of, east side of road forks at mouth of Salt Lick Creek, southwest corner of old Hueysville post-office building; copper nail in stump foundation, marked "685.8"	685. 61
Hippo, 3 miles east of, 0.9 mile west of mouth of Salt Lick, at road crossing, south side of road, east side of John Amburgiers Branch; nail in root of 2½-foot elm tree, marked "693.4"	693. 28
Hippo, 2.7 miles northeast of, at mouth of Saliers Branch, center of road forks; spike in top of poplar stump, marked "687.7"	687. 56
Hippo, 2.1 miles northeast of, opposite and about 0.25 mile east of Cool Water Branch, north side of road and west bank of Mink Branch at crossing; chiseled square on top of flat rock, marked "701.5"	701. 31
Hippo, 1.5 miles northeast of, west bank of Raccoon Creek, north side of road to southwest, 60 feet southwest of center of road forks at mouth of Raccoon Creek; chiseled square on top of flat rock, marked "702.9"	702. 79
Hippo, 0.3 mile northeast of, at mouth of Lick Fork Branch, east bank of Salt Lick Creek at mouth; chiseled square on top of flat rock, marked "724.0"	723. 85
Hippo, 550 feet northeast of post office, west side of Salt Lick Creek, opposite residence of John Sutton, 800 feet southwest of mouth of Lick Fork Branch, in top of projecting rock of rock ledge; aluminum tablet stamped "733"	733. 007
Hippo, 0.9 mile southwest of, just west of residence of Mrs. William Coburn, south bank of Salt Lick Creek, 50 feet east of mouth of Bull tail Branch; chiseled square on top of rock, marked "790.4"	790. 26
Hippo, 1.4 miles southwest of, southwest corner of intersection of creeks, 15 feet north of northwest corner of small corn shed, 210 feet southeast of schoolhouse, at mouth of Snaggy Fork; copper nail in root on south side of 1-foot walnut tree, marked "831.1"	830. 96
Handshoe, opposite post office, on hillside on north bank of Salt Lick Creek, 20 feet above bed of creek, 60 feet north of mouth of Bark Camp Branch, in face of rock outcrop; aluminum tablet stamped "885"	885. 279
Handshoe, 1.4 miles southwest of, at road crossing gap between Salt Lick Creek and Laurel Fork of Quicksand Creek, east side of road, 15 feet south of telephone pole, 40 feet southeast of fence corner, 12 feet south of highest point in road; chiseled square on top of stone, marked "1312.7"	1, 312. 53
Handshoe, 2.4 miles southwest of, at mouth of Lick Fork on Laurel Fork, west bank of Lick Fork at its mouth, 230 feet south of road forks, opposite and 20 feet north of log barn, in top of rock ledge; aluminum tablet stamped "1146"	1, 146. 121
Vest, 3.1 miles east by 3.8 miles north of, 3.5 miles northeast of Yellow Mountain post office, at foot of north side of Yellow Mountain (divide between Mill Branch of Balls Fork and Lick Fork of Laurel Fork), on east side of road at bend to southeast, at foot of hill; nail in base of a 2-foot gum tree, marked "1244.4"	1, 244. 27

Vest, 3.1 miles east by 2.8 miles northeast of, 2.4 miles northeast of Yellow Mountain post office, top of divide on Yellow Mountain between Mill Branch of Balls Fork and Lick Fork of Laurel Fork, north side of road, 35 feet west of point where road leaves divide to descend to Lick Fork, copper nail in root of 2½-foot oak tree, marked "1630.1"	Feet. 1, 629.94
Vest, 3.1 miles east by 2.3 miles northeast of, 2 miles north of Yellow Mountain post office, at top of divide on Yellow Mountain between Mill Branch of Balls Fork and Newmans Fork of Laurel Fork, south side of road, 75 feet east of point where road leaves ridge to descend to Mill Creek; nail in root of 2½-foot oak tree, marked "1629.9"	1, 629.76
Vest, 3.1 miles east by 1.8 miles north of, 1.4 miles north of Yellow Mountain post office, at foot of south side of divide between Mill Branch of Balls Fork and Lick Fork of Laurel Fork, west side of road at mouth of small branch from west, 50 feet south of house standing on west side of road, 40 feet north of stream crossing where road leaves creek to cross divide; chiseled square on top of large flat sandstone rock, marked "1236.6"	1, 236.46
Vest, 3.1 miles east by 1.2 miles north of, 0.8 mile north of Yellow Mountain post office, 75 feet north of mouth of small branch from east, on west bank of Mill Branch, 360 feet north of residence of John Bolen, east side of road; copper nail in root on west side of 18-inch beech tree, marked "1153.6"	1, 153.41
Vest, 3.1 miles east of, along Balls Fork, at road forks, 16 feet above water level, east side and 310 feet north of mouth of Mill Branch, in face of rock ledge; aluminum tablet stamped "1091"	1, 090.900
Vest, 2.3 miles east of, on east bank of Balls Fork, 75 feet south of ford of wagon road, in bottom just west of schoolhouse, 0.2 mile north of mouth of Terry Fork, 15 feet north of 2-foot sycamore tree, 75 feet west of large sandstone rock; chiseled square on top of large flat rock, marked "1067.2"	1, 067.01
Vest, 1.6 miles east of, 50 feet north of mouth of small creek from northeast, in bed of creek, on west side of road, 35 feet south of bend in road to west; chiseled square on top of large rock, marked "1076.6"	1, 076.39
Vest, 1.1 miles east of, opposite mouth of Knob Bottom Branch, west side of Balls Fork, at water level, under oak tree 5 inches in diameter; chiseled square on top of large rock, marked "1047.9"	1, 047.77
Vest, 550 feet north of road forks at ford in front of store, 700 feet north of mouth of Trace Fork, on east bank of Balls Fork, west side of road, in top of large rock; aluminum tablet stamped "1044"	1, 044.386
From Dema south along highway up Right Fork of Beaver Creek to Isaac Branch.	
Dema, 1 mile southeast of, 320 feet north of mouth of Dotty Branch, east side of Beaver Creek, west side of road; copper nail in root of 2-foot beech tree, marked "731.5"	731.37
Dema, 2.1 miles southeast of, northeast corner of creek intersection, 30 feet northwest of southwest corner of log building, at mouth of Sallsbury Branch, 10 feet west of fence, at foot of small post; chiseled square on top of stone, marked "744:0"	743.84
Dema, 3.7 miles southeast of, west side of Beaver Creek, 700 feet north of mouth of Sly Branch, 45 feet south of 2½-foot sycamore tree, in east face of large rock; aluminum tablet stamped "758"	757.653
Dema, 5 miles southeast of, on north bank of Oldhouse Branch at mouth, at bend in creek to southwest, 75 feet south of southwest corner of Richard Hall's barn; copper nail in root of west tree of three elm trees in a cluster, marked "776.9"	776.74

Dema, 6.1 miles southeast of, opposite mouth of Upper Rocklick Branch, on west bank of Beaver Creek, east side of road; copper nail in root of beech stump, marked "792.4"	Feet. 792.30
Republican, 0.6 mile northeast of, 75 feet northwest of mouth of Dry Creek, west side of Beaver Creek, in top of rock cliff; aluminum tablet stamped "799"	799.227
Republican, 0.7 mile southwest of, west side of Beaver Creek, at fence line, 1,200 feet southwest of Spruce Pine Branch, 90 feet west of house, 825 feet northeast of Rowan Branch; copper nail on east side of 1½-foot elm tree in root, marked "821.9"	821.80
Republican, 1.2 miles southwest of, opposite mouth of Waddles Branch, on east bank of Beaver Creek; copper nail in root on creek side of beech tree, marked "832.1"	832.01
Republican, 2.1 miles southwest of, on east bank of Beaver Creek at bend southeast, 150 feet north of bend in road southeast, 0.3 mile south of splash dam; copper nail in root of sycamore stump 20 feet high, marked "847.8"	847.72
Republican, 2.5 miles southwest of, at mouth of Mullens Branch, southwest corner of road forks; copper nail in base of telephone pole, marked "853.9"	853.85
Kite, on west bank of Beaver Creek, 450 feet north of mouth of Bates Branch; in top of projection of rock cliff; aluminum tablet stamped "879"	879.377
Kite, 1.2 miles southeast of, at mouth of Puncheon Creek, on north bank of Beaver Creek, 40 feet southwest of 15-inch walnut tree standing inside of fence on north side of creek; chiseled square on top of rock, marked "912.0"	911.93
Kite, 2.2 miles southeast of, east side of Beaver Creek, in front of tenant house owned by W. J. Hall's heirs; copper nail in root on house side of 2-foot sycamore tree, marked "952.4"	952.28
Kite, 3.1 miles southeast of, on west bank of Beaver Creek, 140 feet northwest of junction of creeks, 650 feet northwest of schoolhouse, at road forks at mouth of Isaac Branch (road leading southeast to Mill Creek of Rockhouse Creek), in face of rock ledge; aluminum tablet stamped "999"	999.289
Kite, 3.8 miles southeast of, northwest corner of intersection of creeks, 130 feet south of store, 17 feet west of southeast corner of barn of Jefferson Hall, at road forks at mouth of Day Fork (road leading northeast to Jacks Creek); chiseled square in stone foundation pillar, marked "1051.1"	1,050.03

INEZ QUADRANGLE.

[Latitude 37° 45'-38°; longitude 82° 30'-82° 45'.]

From Gallup south along Chesapeake & Ohio Ry. to point near Buffalo station.

Gallup, 0.6 mile west of, 50 feet south of west end of old trestle No. 403 (U. S. Corps of Engineers b. m. 5, their elevation being 591.559)	590.189
Gallup, 1.5 miles southwest of, north side of track, in base of milepost "E 93 H 35"; spike	589.70
Gallup, 2.5 miles southwest of, opposite milepost "E 92 H 36," in base of section post 276-277; spike	596.28
Kise station, 0.7 mile northeast of, in top of sandstone rock, at base of milepost "E 91 H 37"; chiseled square	589.26
Georges Creek, 60 feet north of station platform, north side of highway, inside fence corner, 30 feet west of elm tree; iron post stamped "608" ..	607.655
Richardson, 1.9 miles northeast of, 70 feet south of house on west side of railroad, in top of rock on east side of railroad; chiseled square	589.08
Richardson, 180 feet north of Chesapeake & Ohio Ry. station, 20 feet east of track, at fence corner; iron post stamped "601"	600.729

Richardson, 1.1 miles south of, in top of east end of culvert under railroad; chiseled square.....	Feet. 599.42
Graves Shoals station, 60 feet west of A. Preston's store, on north side of track, in base of telegraph pole; spike.....	597.38
Graves Shoals station, 0.9 mile southwest of, in top of stone boulder on east side of railroad; chiseled square.....	602.80
Graves Shoals, 1.6 miles southwest of, 2.0 miles north of Chestnut station, east side of railroad, 3 feet from track, 250 feet south of milepost "E 82 H 46," in rock ledge; aluminum tablet stamped "597".....	596.736
Graves Shoals, 2.5 miles southwest of, 1.1 miles north of Chestnut station, 150 feet north and 50 feet west of milepost "E 81 H 47" (U. S. Corps of Engineers b. m. 12, Big Sandy, set in river bank at; their elevation 598.894).....	597.012
Chestnut station, 1.0 mile southwest of, 2.0 miles northeast of White House, at house on west side of railroad, 250 feet west of railroad milepost "E 79 H 49," river bank (U. S. Corps of Engineers b. m. 13, Big Sandy, their elevation 605.354).....	603.484
White House, 120 feet east of station, southwest corner of road crossing, 30 feet south of crossing, top of stone; chiseled square.....	607.14
White House, 1,000 feet west of station, 120 feet west of post office, at milepost "H 51 E 77," in top of south end of concrete culvert under railroad; aluminum tablet stamped "592".....	591.983
River station (River post office), 180 feet south and 50 feet west of station, 75 feet north of post office, in front of dwelling house, in fence corner; iron post stamped "615".....	615.38
Meeks station, in top of northwest corner of concrete platform curbing at; chiseled square.....	608.60
Meeks station, 1.5 miles southwest of, at road crossing, east side of railroad, in base of warning post; spike.....	609.69
Buffalo station, 1.0 mile northwest of, 40 feet west of track, 15 feet west of 10-inch walnut tree, 120 feet north of private crossing, at fence corner; iron post stamped "610".....	609.908
Buffalo station, west side of track at platform, in base of station board; spike.....	623.05
Buffalo station, 0.2 mile southwest of, railroad bridge over Big Sandy River, west wing of north abutment, in top stone; chiseled square.....	625.60
From Georges Creek along highway up Right Fork to divide and down Wileys Creek to River station.	
Georges Creek, 60 feet north of station platform, 30 feet west of elm tree, north side of highway, inside fence corner; iron post stamped "608"...	607.655
Georges Creek station, 0.5 mile west of, on west side of river, at southeast corner of road forks, in front of corn crib, in top of stone; chiseled square..	580.88
Georges Creek station, 1.1 miles west of, T road southwest at forks of Georges Creek, in southwest corner of road forks, 65 feet east of schoolhouse, in root of small tree; copper nail.....	571.24
Georges Creek, 2.0 miles west of, T road north at, north side of road, 50 feet west of road forks, in top of stone; chiseled square.....	584.69
Charley, 1.4 miles southeast of, in center of road forks, in root of 24-inch sycamore tree; copper nail.....	571.30
Charley, 0.4 mile southeast of, at house on west side of road, in top of west end of stone culvert; chiseled square.....	623.40
Charley, road forks at, southwest corner of, in front of E. Moor's store, in top of stone; chiseled square.....	601.37

	Fest.
Charley, 0.4 mile west of, T road southwest at, north side of public road at road forks, at fence corner; iron post stamped "629".....	629. 106
Charley, 1.3 miles west of, south side of road, 50 feet west of small stream, in top of rock; chiseled square.....	611. 29
Charley, 2.2 miles west of, west side of road at road forks, in root of 36-inch cottonwood tree in front of Mr. Hayes's residence; nail.....	636. 69
Charley, 3.4 miles southwest of, north side of road, 90 feet west of bend in road to west, in top of rock; chiseled square.....	714. 32
Charley, 3.6 miles southwest of, at northeast corner of blacksmith shop, 150 feet southeast of house, 60 feet east of small store, 30 feet east of small stream, on fence line south side of public road, at W. Hays's residence; iron post stamped "703".....	702. 601
Charley, 4.2 miles southwest of, east side of road at T road southeast, in top of stone; chiseled square.....	743. 69
Charley, 5.2 miles southwest of, at foot of south side of divide between right and left forks of Georges Creek, north side of road at bend to south, in root on east side of stump; copper nail.....	744. 87
Lowmansville, 0.6 mile southwest by 1.4 miles northwest of, road forks, at John M. Brown's residence, in center of road forks, in top of stone; chiseled square.....	681. 48
Lowmansville, 0.6 mile southwest by 0.5 mile northwest of, north side of road at forks, in top of sandstone ledge; chiseled square.....	658. 10
Lowmansville, 0.6 mile southwest of, in southwest corner of road forks at schoolhouse, in root of 3-foot beech tree; copper nail.....	655. 37
Lowmansville, 0.8 mile southwest of, T road southwest, 300 feet south of John J. Brown's residence, northwest corner of road forks, at fence line; iron post stamped "651".....	650. 602
Lowmansville, 2 miles south of, on north side of divide between left fork of Georges Creek and Wileys Creek, private road east, 50 feet east of junction, on south side of road, in top of stone; chiseled square.....	748. 61
River station, 1.1 miles northwest by 2.2 miles north of, 60 feet south of T road west, on west side of road, in top of large sandstone rock; chiseled square.....	665. 31
River station, 1.1 miles northwest by 1.1 miles north of, 350 feet east of schoolhouse, east side of road at T road northwest, in top of sandstone rock; chiseled square.....	648. 20
River station, 1.1 mile northwest of, east side of road at T road west, in top of sandstone rock; chiseled square.....	589. 63
River station, 0.2 mile west of, west side of river, in northwest corner of road forks at John Wards's store, 60 feet south of store, in top of lower stone at southeast corner of stone wall; chiseled square.....	596. 36
Big Sandy ford at River station, surface of water in, Nov. 26, 1909.....	556
River station (River post office), 180 feet south by 50 feet west of station, 75 feet north of post office, in front of dwelling house, in fence corner; iron post stamped "615".....	615. 323

LAYNESVILLE QUADRANGLE.

[Latitude 37° 30'–37° 45', longitude 82° 30'–80° 45'.]

From Stevens Branch northeast along highway down Beaver Creek to Beaver; thence northeast and northwest along Chesapeake & Ohio Ry. down Levisa Fork of Big Sandy River to Prestonsburg.

	Feet.
Alphoretta, 0.5 mile north of, west abutment of steel highway bridge over Right Fork of Beaver Creek, at store of T. J. Craft & Co., in top of south end of concrete bridge seat; aluminum tablet stamped "653".....	652. 451
Alphoretta, 1.8 miles northeast of, at mouth of Bucks Branch, in northeast corner of road forks, southwest corner of store, at Bucks Branch post office; chiseled square cut in top of stone foundation marked "651.4".....	651. 19
Allen, 4.7 miles southwest of, 40 feet northwest of crossing of small stream from northwest, at residence of James Crisp, at bend in Beaver Creek to east, south bank of stream, 40 feet east of barn at fence line, 3 feet south of trunk; nail in root of 3-foot sycamore tree marked "639.1".....	638. 89
Allen, 3.3 miles southwest of, 200 feet east of mouth of Arkansas Creek, on west side of road, east bank of Beaver Creek, south end of loop to south, in face of rock cliff; aluminum tablet stamped "639".....	639. 220
Allen, 2.3 miles southwest of, north side of Becky Clarks Branch at rock crossing on branch, at residence of Columbus Crisp, west side of road; copper nail in root of 1-foot sycamore tree marked "627.7".....	627. 44
Allen, 1.4 miles southwest of, north side of road, opposite and about 100 feet west of residence of Harmon Beverley, at southwest corner of shop building; painted square on top of rough projection of stone foundation marked "677.6".....	677. 39
Allen, 0.7 mile south of, north side of small drain from east, east side of road, 6 feet above road, opposite and 100 feet north of house owned by T. J. Allen; chiseled square in top of rock ledge marked "661.4".....	661. 13
Allen, 720 feet west of Beaver Creek station, east stone abutment of Chesapeake & Ohio Ry. bridge No. 836 over mouth of Beaver Creek, in top of south end of bridge seat; aluminum tablet stamped "638".....	638. 098
Dwale, 1 mile northeast of, 360 feet north of private crossing and house east side of track, 500 feet north of culvert over branch from west, east side of track; top of bolt head in south end of cattle guard painted white marked "648.9".....	648. 69
Woods, 0.5 mile southwest of station, east end of cattle guard, south side of track; bolthead painted white marked "647.6".....	647. 34
Woods, 25 feet north of station platform, 55 feet south of section house, on top of east end of concrete culvert under track; chiseled square marked "643.6".....	643. 29
Woods, 0.2 mile north of, north end of siding, in top of east end of concrete culvert under track; aluminum tablet stamped "640".....	639. 590
Alonzo, in front of station, top of west rail.....	642. 8
Alonzo, at mouth of Lisleys Branch, east side of track, opposite platform and store of Preston Coal Co., 60 feet south of coal tippie; spike in base of telegraph pole marked "636.9".....	636. 62
Alonzo, 0.9 mile northeast of, on west side of track; spike in base of milepost "H 79-E 49" marked "641.6".....	641. 36
Bull Creek station, 0.8 mile southeast of, 100 feet south of private-road crossing, 140 feet south of house on west side of railroad, east side of track, south end of cattle guard; top of bolthead painted white marked "642.7".....	642. 42

Bull Creek station, northwest of road crossing, east end of cattle guard; top of bolthead painted white marked "640.6"	Feet. 640.33
Bull Creek station, 0.2 mile north of, concrete railroad bridge over mouth of Bull Creek, in top of south end of bridge seat, east abutment; aluminum tablet stamped "635"	634.392
Bull Creek station, 1.3 miles northwest of, 40 feet west of milepost 876-E. 52, 130 feet west of house standing on south side of railroad, in top of east end of cattle guard on south side of track; bolthead painted white marked "640.0"	639.68
Prestonsburg, 0.8 mile southeast of, at Colonial station, south side of track, east side of switch to coal tipple; spike in base of station signboard marked "638.1"	637.83
From point near Coal Run northwest along Chesapeake & Ohio Ry. to Beaver Creek.	
Coal Run station, 1.2 miles southeast of, opposite mouth of Ratliff's Creek, 120 feet south of Samuel Keel's barn standing on east side of track, at branch from west, in top of east end of concrete heading of iron drain under railroad; bronze tablet stamped "670"	670.221
Coal Run station, 30 feet north of track, in west base of telegraph pole; spike	672.89
Keyser station, 3 feet south of station sign, southwest corner of station platform, at mouth of Cabin Branch, in top of timber curbing; copper nail ..	673.59
Wagner station, 0.2 mile north of, 1,050 feet south of Mossy Bottom station, 510 feet north of milepost H 98 E 30, top of east end of concrete culvert under railroad; bronze tablet stamped "665"	664.964
Mossy Bottom, in front of station; top of rail	670.9
Mossy Bottom station, 0.9 mile northwest of, 500 feet west of milepost H 97 E 31, east side of road at third-class road crossing, in southeast corner of cattle guard; top of bolt head painted white	669.14
Mossy Bottom station, 1.5 miles northwest of, 100 feet west of Staten Branch, 500 feet east of bend in railroad to north, east side of lane south to house in field, in southeast corner of cattle guard; top of bolt head painted white	667.79
Boldman station, 0.5 mile northeast of, 300 feet west of center of curve in railroad to south, 150 feet west of house standing on north side of track, east side of lane crossing, in southwest corner of cattle guard; top of bolt head painted white	666.40
Boldman, in front of station; top of rail	665.1
Harold station, 1.3 miles southeast of, 770 feet west of Boldman station, east end north side of track of Chesapeake & Ohio Ry. stone arch culvert over mouth of Hurricane Creek, in top; bronze tablet stamped "653" ..	652.930
Harold station, 12 feet south of south end of platform to station, in top of northeast corner of concrete foundation of Chesapeake & Ohio Ry. water tank, on track side; chiseled square	663.30
Harold station, 0.3 mile north of, on top of south abutment at west end of parapet wall of railroad bridge 931 over mouth of Mud Creek; chiseled square	663.11
Betsy Layne station, 0.5 mile southeast of, 80 feet north of whistling post, 525 feet south of milepost H 92 E 36, west side and 1 foot lower than track, at foot of rock cliff, in top of stone projection; chiseled square	661.89
Betsy Layne, in front of station; top of rail	661.7
Betsy Layne station, 780 feet west of, north side of track, at mouth of Betsy Layne Branch, in top of east end of concrete culvert under railroad; bronze tablet stamped "646"	646.226

Betsy Layne station, 0.6 mile northwest of, 750 feet south of mail crane and house standing on east side of track, 120 feet south of milepost H 91 E 37, in top of cattle guard on west side of track; bolt head painted white....	Feet. 661.76
Betsy Layne station, 1.6 miles northwest of, opposite and about 0.25 mile northwest of mouth of Mare Creek, 150 feet west of house standing in mouth of hollow, on south side of track, 390 feet east of milepost H 90 E 38, 720 feet east of Tram post office mail crane, on top at south end of concrete culvert under railroad; chiseled square.....	657.96
Ivel station, 1.5 miles southeast of, 90 feet west of railroad culvert over mouth of Camp Branch, east side of third-class road crossing at east end of cut, north side of track, in base on track side of chestnut post 6 feet high; top of head of $\frac{1}{2}$ -inch bolt painted white.....	656.58
Ivel station, 0.5 mile south of, 300 feet north of Straten Branch, 130 feet north of house, west side of track, in cattle guard; top of center bolt head painted white.....	655.92
Ivel station, 150 feet north of, east side of track, at cattle guard, north side of east end of concrete culvert under railroad, in top; bronze tablet stamped "653 Ky".....	652.742
Ivel station, 0.9 mile northwest of, 210 feet northwest of milepost H 87 E 41, 400 feet north of drain from west and house in mouth of hollow, north side of track, on top of concrete culvert under railroad; chiseled square.....	654.51
Banner station, 0.5 mile southeast of, 170 feet west of milepost H 86 E 42, 30 feet west of whistling post, 300 feet west of house on south side of track, at mouth of hollow from south, north side of track, in east end of cattle guard; top of bolt head painted white.....	655.09
Banner station, 0.1 mile southeast of, 60 feet south of road crossing, Chesapeake & Ohio Ry. stone bridge over Preator Creek, in top of south abutment at west end of parapet wall; chiseled square.....	648.67
Banner, in front of station; top of rail.....	653.6
Beaver Creek station, 1 mile southeast of, south side of railroad, in east end of cattle guard; top of bolt head painted white.....	650.75
Beaver Creek station, 700 feet west of east abutment, top of south end of bridge seat of bridge over mouth of Beaver Creek; aluminum tablet stamped "638".....	638.098

From Harold southwest along highway to Alliance.

Harold station, 0.7 mile west of, 0.2 mile south of mouth of Little Mud Creek, on west side of road, 25 feet northwest of center of road forks, opposite house, at foot of fence corner, in top of oak stake 2 inches square and 4 inches above ground; copper nail.....	646.12
Harold station, 1.5 miles southwest of, 80 feet southeast of George Aker's store, just north of mouth of Tollers Creek, northwest corner of road forks, 12 feet west of northeast corner of Aker's yard, in fence line, in root on road side of 6-inch butternut tree; copper nail.....	668.79
Harold station, 2.2 miles southwest of, 0.3 mile southeast of schoolhouse, 250 feet south of residence of Press Tackett, on east side of and 12 feet above road, in face of sandstone cliff; bronze tablet stamped "667"....	666.914
Harold station, 3 miles southwest of, at south side of branch from east, in front of residence of Ida Clark (houses on both sides of road), east side of road, on top of rock; chiseled square.....	677.38
Harold station, 4.1 miles southwest of, 0.25 mile northeast of mouth of Parsons Branch, opposite end of low spur from west, at small branch from east, residence of Isaac Parsons stands on west side of road, east side of road, on north side and in bed of branch, on top of flat rock; chiseled square.....	686.30

Alliance, 0.25 mile southeast of, 60 feet south of road forks at mouth of Branham's Creek, east side of south road, on top of flat rock; chiseled square.....	Feet. 681. 18
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From Drift north along highway to Alphoretta.

Alphoretta, 4.8 miles south of, at ford on Left Fork of Beaver Creek, 320 feet west of mouth of Hunters Branch, 200 feet east of house standing on south side of road, north bank of Beaver Creek, in root on north side of 2-foot walnut tree; copper nail.....	662. 72
Alphoretta, 4.1 miles south of, 0.7 mile north of Hunters Branch, 350 feet south of Richard Salsbury's residence, 150 feet north of drain from west, 300 feet south of another drain from west, east end of low spur from north-west between drains, west side of road, in top of projection of rock cliff; aluminum tablet stamped "693".....	693. 121
Alphoretta, 3.3 miles south of, 100 feet west of mouth of Jake Akers Branch, at west end of loop in road and creek to west, east side of road, in front of large white house standing in mouth of branch from west, in base of telephone pole; copper nail.....	672. 52
Alphoretta, 2.4 miles south of, 210 feet south of road forks, opposite mouth of Sparlock Branch, 25 feet south of southeast corner of Adam Halbert's yard, on west side of road, in root on road side of 2-foot elm tree; copper nail.....	662. 43
Printer, 1.9 miles south of Alphoretta, 15 feet north of northeast corner of Jake Spurlock's store, west side of road, 80 feet south of branch from southwest, in root on west side of 10-inch apple tree; copper nail.....	663. 35
Printer, 0.2 mile north of, 1.6 miles south of Alphoretta, 150 feet north of house standing in mouth of cove from west, 150 feet north of bend in road to north, west side of road, at foot of low spur from west, opposite blacksmith shop, on north side of entrance to coal opening, in face of sandstone rock; aluminum tablet stamped "689".....	688. 496
Alphoretta, 0.8 mile south of, at house in mouth of branch from west, 40 feet north of branch crossing on west side of road, at foot of east post of gate to field, on top of stone; chiseled square.....	645. 73
Alphoretta, at road forks; top of stone in center.....	649. 4
Alphoretta, 375 feet east of post office, west concrete abutment of steel highway bridge over Left Fork of Beaver Creek; in top of north end of parapet wall; chiseled square (on spur line).....	651. 04
Alphoretta, 0.5 mile north of, at store of T. J. Craft & Co., west concrete abutment of steel highway bridge over Right Fork of Beaver Creek, south end of concrete bridge seat, in top; aluminum tablet stamped "653".....	652. 451

PAINTSVILLE QUADRANGLE.

[Latitude 37° 45'-38"; longitude 82° 45'-83".]

From point near Buffalo station along Chesapeake & Ohio Ry. to East Point.

Buffalo station, 0.7 mile southwest of, road crossing at Concord schoolhouse, at southwest corner of crossing, in base of warning post; spike.....	625. 83
Paintsville, 0.6 mile north of Chesapeake & Ohio Ry. station, east side of railroad, north side of road crossing, at foot of warning post; iron post stamped "616".....	615. 597
Paintsville, 210 feet south of Chesapeake & Ohio Ry. station, in top of north-east concrete foundation of steel pillar of water tank; chiseled square...	619. 36

Stafford station, in top of southeast corner of concrete curbing of platform; chiseled square.....	Feet. 621. 17
Stafford station, 1 mile southeast of, 0.22 mile north of Millers Creek platform, 60 feet west of track on west side of railroad right-of-way line, at road crossing; iron post stamped "620".....	620. 167
Millers Creek, 0.8 mile southwest of, at milepost "E 65 H 63" on east side of track, in north post of railroad stand at; spike.....	620. 29
Lesley station (Flambeau post office), south side of track, in base of telegraph pole; spike.....	620. 14
East Point, 0.9 mile northeast of, second pole east of milepost "E 63 H 65," in base of telegraph pole on south side of railroad; spike.....	622. 22
East Point, in front of station; top of rail.....	625. 4
East Point, in front of J. C. B. Auxier's store, at west end of south concrete abutment of driveway under railroad; iron post stamped "615".....	614. 796

POUND QUADRANGLE.

[Latitude 37°-37° 15'; longitude 82° 30'-82° 45'.]

Ore Knob southwest along highway to Jenkins, thence south to Pound Gap.

Ore Knob, 1.8 miles west of, 80 feet east of roads forks at Pigeon Branch; nail in root of maple tree, marked "B. M. 1235".....	1, 234. 90
Ore Knob, 2.9 miles west of, 400 feet east of Big Branch; chiseled square on large boulder, marked "B. M. 1259".....	1, 258. 14
Ore Knob, 4.4 miles west of, 150 feet north of schoolhouse, in rock ledge; aluminum tablet stamped "1912 1296".....	1, 295. 225
Shelby Gap, 0.5 mile east of, 150 feet south of road, on north bank of Elkhorn Creek; chiseled square marked "U. S. B. M. 1347".....	1, 346. 31
Jenkins, 5 miles east of, west end of Sandy Valley & Elkhorn Ry. bridge over Elkhorn Creek, north side of track; bolt painted white, marked "U. S. B. M. 1397".....	1, 395. 93
Jenkins, 4 miles east of, south end of Sandy Valley & Elkhorn Ry. bridge over secondary road, in east abutment; aluminum tablet stamped "1409".	1, 408. 009
Jenkins, 3 miles east of, 750 feet west of No. 1 mine, south side of track; spike in telephone pole, marked "U. S. B. M. 1443".....	1, 442. 92
Jenkins, 2 miles east of, at switch to mine No. 3, south side of track; spike in telephone pole, marked "U. S. B. M. 1476".....	1, 475. 34
Jenkins, 0.5 mile east of, at brick kilns, north side of track; spike in telephone pole, marked "U. S. B. M. 1511".....	1, 510. 13
Jenkins, southwest corner of main store, in cement walk; aluminum tablet stamped "1528".....	1, 527. 321
Jenkins, 1 mile west of, at T road south to Pound, 5 feet west of house; chiseled mark on ledge, marked "U. S. B. M. 1828".....	1, 827. 08

From point near Jenkins along highway west and north to Chip, thence southeast to Jenkins.

Jenkins, 2 miles west of, 150 feet east of store where road crosses Kentucky River, north side of road; chiseled square on ledge, marked "U. S. B. M. 1496".....	1, 495. 75
Jenkins, 3 miles west of, 150 feet east of Sam Wright's house, opposite store, in ledge; aluminum tablet stamped "1391".....	1, 390. 889
Jenkins, 4 miles west of, 100 feet south of road, 25 feet west of Kentucky River; nail in root of large beech tree, marked "U. S. B. M. 1298".....	1, 297. 82
Jenkins, 5 miles west of, 200 feet east of house, 60 feet south of road, on south bank of Kentucky River; chiseled square on rock, marked "U. S. B. M. 1252".....	1, 251. 88

	Feet.
Jenkins, 5.5 miles west of, 600 feet north of mouth of Boone Fork, west side of railroad culvert over creek; aluminum tablet stamped "1255"	1, 254. 222
Boone Fork, at mouth of, 1 mile north of, west end of culvert over creek; chiseled square, marked "U. S. B. M. 1265"	1, 264. 39
Chip, 1 mile south of, 150 feet north of culvert over Boone Fork, 100 feet west of railroad grade; nail in root of sycamore tree, marked "U. S. B. M. 1274"	1, 273. 80
Chip, 0.2 mile north of, 10 feet east of road to McRoberts, in culvert; aluminum tablet stamped "1286"	1, 284. 994
Jenkins, 4 miles northwest of, 1 mile east of mouth of Potters Creek, 25 feet south of road, at foot of cliff; chiseled square marked "U. S. B. M. 1316" ..	1, 315. 95
Jenkins, 2.5 miles northwest of, 300 feet east of Holcomb's store, 20 feet south of road, in boulder; aluminum tablet	1, 390. 883
Jenkins, 1.5 miles northwest of, 0.5 mile west of Potters Gap, south side of road; chiseled square on ledge, marked "U. S. B. M. 1507"	1, 506. 40
Jenkins, 1.5 miles north of, at tipple of mine No. 6, 50 feet east of track; spike in telephone pole, marked "U. S. B. M. 1574"	1, 573. 34

From point 2 miles north of Shelby Gap south along Sandy Valley & Elkhorn Ry. to Shelby Gap.

Shelby Gap, 1.9 miles north of, 60 feet north of road crossing, just south of Reese Branch, south concrete abutment of Sandy Valley & Elkhorn Ry. bridge over Shelby Creek; chiseled square on east end of bridge seat, marked "1246.4"	1, 246. 36
Shelby Gap, 1.6 miles north of, at mouth of Vanover Branch, stone culvert under railroad; chiseled square on top of west end at north corner; marked "1273.5"	1, 273. 53
Shelby Gap, 0.9 mile north of, at mouth of Agie Branch, stone culvert under railroad; chiseled square on top of east end, marked "1323.4"	1, 323. 37
Shelby Gap, 0.2 mile southwest of, east concrete abutment of Sandy Valley & Elkhorn Ry. bridge over Elkhorn Creek, parapet wall; chiseled square on top of south end, marked "1392.0"	1, 391. 99

Near Kona Stations.

Kona, 350 feet west of station, 600 feet north of mouth of Boone Fork, in top of north side at east end of railroad culvert over creek; aluminum tablet stamped "1255"	1, 254. 222
Kona, 0.6 mile northwest of, on top of south abutment west parapet wall of railroad bridge over North Fork of Kentucky River; chiseled square marked "1246.6"	1, 246. 63

From point near Oven Fork post office east along highways to State line.

Oven Fork, 1.4 miles northeast of, 65 feet south of road summit, on west side of road crossing bridge between Meadow Branch and Poor Fork of Cumberland River, in root on road side of 2½-foot chestnut tree; copper nail stamped "2077.5"	2, 077. 19
Oven Fork, 1.9 miles northeast of, just north of Henry Mullin's residence, on south side of road, 70 feet east of top, at crossing of gap in spur, on top of rock outcrop; chiseled square marked "2064.4"	2, 064. 04
Flat Gap, 1.4 miles southwest of, in center of road forks at mouth of Roberts Branch, 20 feet southeast of mail box, 50 feet southwest of ford, on top of flat rock; chiseled square marked "2046.95"	2, 046. 63
Flat Gap, 1 mile west of, 30 feet west of State line, on south side of road, in front of Joseph Boling's barn, at road crossing State line between Kentucky and Virginia in Flat Gap, in top of sandstone outcrop; aluminum tablet stamped "2116"	2, 116. 101

REGINA QUADRANGLE.

[Latitude 37° 15'–37° 30'; longitude 82° 15'–82° 30'.]

From Praise (Elkhorn City) southwest along highway to Ore Knob.

	Feet.
Praise (Elkhorn City), 100 feet west of station, in base of walnut tree; Carolina, Clinchfield & Ohio Ry. bench mark, marked "B. M. 794.18" ..	794.940
Praise, in west end of south abutment of railroad bridge over Russells Fork; aluminum tablet stamped "791, 1912"	790.972
Praise, 1.7 miles west of, 100 feet south of large branch to right, 4 feet above creek bed; chiseled square on rock ledge, marked "B. M. 810" ..	809.90
Praise, 3.2 miles west of, north of Elkhorn Creek, 5 feet above water; chiseled square on rock ledge, marked "B. M. 879"	878.74
Praise, 4.2 miles west of, 500 feet west of house at mill dam, north of road, in large boulder; aluminum tablet stamped "936, 1912"	935.380
Praise, 5.2 miles west of, 100 feet south of house south of road; top point of large boulder, marked "B. M. 966"	965.08
Praise, 6.4 miles west of, north of road; chiseled square on large boulder, marked "B. M. 1036"	1,035.64
Ashcamp, 150 feet east of, north of road, in large boulder; aluminum tablet stamped "1084, 1912"	1,083.583
Ashcamp, 1.9 miles west of, 3 feet south of road, chiseled square on large boulder, marked "B. M. 1109"	1,108.82
Ashcamp, 3.1 miles west of, 50 feet west of mouth of Sycamore Branch; nail in root of large birch tree, marked "B. M. 1151"	1,150.66
Ore Knob, 500 feet east of, south of road, in large boulder; aluminum tablet stamped "1188, 1912"	1,187.731

VIRGIE QUADRANGLE.

[Latitude 37° 15'–37° 30'; longitude 82° 30'–82° 45'.]

From Isaac Branch southwest along highway to Specht, thence northeast down Long Fork of Shelby Creek to Virgie, thence south up Shelby Creek to point 2 miles north of Shelby Gap.

Kite, 4.6 miles southeast of, southeast of mouth of Mud Lick Fork, at fence corner; chiseled square on top of rock, marked "1128.8"	1,128.70
Kite, 5.8 miles southeast of, 250 feet northeast of mouth of Stover Branch, at fourth-class road leading up Stover Branch to triangulation station at county corners, 220 feet north of house owned by W. J. Hall's heirs and occupied by Ephram Little, north side of Beaver Creek, in face of rock ledge; aluminum tablet stamped "1297"	1,297.225
Kite, 6.4 miles southeast of, 1.7 miles northwest of Specht, west side of trail through gap between Right Fork of Beaver Creek and Long Fork of Shelby Creek at county line between Pike and Knott counties, 15 feet south of center of gap; copper nail without washer in east side of 2-inch white oak tree, marked "1827.8"	1,827.74
Specht, 1.2 miles northwest of, at head of Long Fork of Shelby Creek, at foot of south side of divide between Right Fork of Beaver Creek and Long Fork of Shelby Creek, at top of bank on east side of creek at forks, 70 feet south of house and in yard; nail in root of east side of 2-foot beech tree, marked "1431.0"	1,430.96
Specht, 0.4 mile southwest of, at mouth of Rockhouse Branch, east side of road to north, north side of forks of road, 200 feet southeast of house standing in northwest corner of road forks; chiseled square on top of stone, marked "1233.8"	1,233.79

Specht, at mouth of Yonts Branch, southeast corner of road forks, 70 feet southeast of Silas Johnson's store (Specht post-office), in top of projection of rock ledge; aluminum tablet stamped "1207"	Feet. 1, 206. 842
Specht, 0.9 mile northeast of, on west side of road and east bank of creek, 180 feet east of residence of Monroe Johnson, 120 feet east of mouth of Big Branch; copper nail without washer in root of 15-inch walnut tree, marked "1112.3"	1, 112. 23
Specht, 1.5 miles northeast of, opposite and 100 feet west of mouth of Bull Hollow, 50 feet north of creek, 60 feet west of house owned by W. B. Johnson, inside of fence line; chiseled square in top of projection at foot of rock ledge, marked "1072.1"	1, 072. 02
Specht, 2.5 miles northeast of, 1.2 miles north of Etty, at southwest corner of forks of Long Fork of Shelby Creek, 350 feet south of forks of creek, in face of stone pillar of foundation at northeast corner of public school-house; aluminum tablet stamped "1019"	1, 018. 831
Hartley, 0.3 mile west of, northeast corner of creek intersection, 12 feet east of fence corner, southeast fence corner of yard of Alec Johnson's residence, at mouth of Marshals Branch; nail in trunk of 1-foot sycamore tree, marked "985.5"	985. 50
Hartley, 0.6 mile northeast of, in front of James Tackett's residence, 50 feet north of mouth of Abel Tacketts Branch, 30 feet north of ford, on west bank of Long Fork, on south side of 14-inch sycamore tree; chiseled square on top of embedded small stone, marked "958.2"	958. 12
Hartley, 1.7 miles northeast of, 4.8 miles southwest of Virgie, at end of low spur of ridge from northwest, on west side of Long Fork, 800 feet northeast of mouth of Buck Tackett's Branch, 760 feet northeast of residence of Neal Little, 400 feet southwest of Newsome Branch, in top of projection of rock ledge; aluminum tablet stamped "930"	929. 518
Virgie, 3.8 miles southwest of, 130 feet west of bend in creek to north, 125 feet east of residence of Caleb Hampton, 25 feet southwest of storehouse, on north bank of Long Fork, south side of road; copper nail in root on creek side of 2½-foot elm tree, marked "900.3"	900. 32
Virgie, 3.1 miles southwest of, 80 feet north of schoolhouse on west bank of Long Fork, at bend in creek to east; nails in root on south side of 14-inch sycamore tree, marked "884.5"	884. 43
Virgie, 1.9 miles southwest of, on west bank of Long Fork, 120 feet north of mouth of Hunts Branch and Grant Tackett's residence; chiseled square on top of large rock, marked "853.3"	853. 30
Virgie, 0.7 mile west of, 120 feet east of mouth of Indian Creek, in front of Marion Tackett's residence, north side of Long Fork, south side of road; nails in root on north side of 2½-foot elm tree, marked "825.1"	825. 09
Virgie, Sandy Valley & Elkhorn Ry. bridge over Shelby Creek and highway, in top of west end of bridge seat of north concrete abutment; aluminum tablet stamped "837"	836. 635
Virgie, 1.2 miles south of, on north side of private road crossing; spike in base of second fence post west of track, marked "868.5"	868. 49
Virgie, 1.6 miles south of, 300 feet south of road crossing, Chesapeake & Ohio Ry. bridge over Shelby Creek near mouth of Ellzick Branch, on top of north abutment east end of parapet wall; chiseled square, marked "877.9"	877. 94
Virgie, 2.5 miles south of, at mouth of Ben Hall Branch from west, at bend in creek and road to southeast, on top at east end and south corner of stone culvert; chiseled square, marked "891.9"	891. 86

Virgie, 3.7 miles south of, 0.5 mile north of Burks Branch, at mouth of small branch from west, in front of residence of Stephen Osborne, in top of north concrete abutment at west end of bridge seat of Sandy Valley & Elkhorn Ry. bridge over Shelby Creek and highway; aluminum tablet stamped "933".....	932. 771
Burks Branch, 100 feet south of crossing, west side of railroad track; spike in base of telegraph pole, marked "945.9" (By single unchecked sight). ..	945. 94
Myra, 0.6 mile north of, at first bend in creek to south, at small drain from north; nails in top at north end of plank culvert under railroad, marked "960.4".....	960. 41
Myra, 0.5 mile north of, at rear of residence of Elizabeth Greer, stone culvert under railroad; chiseled square on top of west end, marked "956.9" .	956. 88
Myra, at east end of footbridge over Shelby Creek, opposite post office, in top of post on south side; nail, marked "968.3".....	968. 29
Myra, on east side of railroad, 50 feet south of east end of footbridge, 160 feet north of mouth of Beef Hide Creek; chiseled square on top of projection of rock, marked "977.3".....	Feet. 977. 25
Myra, 0.4 mile south of, Sandy Valley & Elkhorn Ry. bridge over Cane Branch, parapet wall of south concrete abutment; chiseled square on top of west end, marked "986.3".....	986. 26
Dorton, railroad bridge over mouth of Dorton Creek, in top of north abutment west end of bridge seat; aluminum tablet stamped "1017".....	1, 017. 312
Dorton, 0.6 mile south of, 60 feet north of house standing on east side of track, at mouth of small branch from east, stone culvert under railroad; chiseled square on top of west end of north corner, marked "1044.3"....	1, 044. 29
Dorton, 1.2 miles south of, Sandy Valley & Elkhorn Ry. bridge over mouth of Owl Creek, parapet wall of north concrete abutment; chiseled square on top of west end, marked "1098.2".....	1, 098. 16
Dorton, 2.2 miles south of, Sandy Valley & Elkhorn Ry. bridge over Shelby Creek at mouth of Threemile Creek, bridge seat at north concrete abutment, in top of west end; aluminum tablet stamped "1168".....	1, 168. 131

From Virgie northeast along Baltimore & Ohio R. R. to Pikeville and Coal Run.

Virgie, Baltimore & Ohio R. R. bridge over Shelby Creek and highway, top of west end of bridge seat, north concrete abutment; aluminum tablet stamped "837".....	836. 635
Virgie, 0.5 mile north of station, Baltimore & Ohio R. R. bridge over Shelby Creek, 50 feet south of road crossing, top of east end of parapet wall of north concrete abutment; chiseled square.....	824. 84
Virgie, 1.8 miles northeast of, 40 feet south of road crossing, Baltimore & Ohio R. R. bridge over Shelby Creek, in top of west end of parapet wall of north concrete abutment; chiseled square.....	802. 76
Penny, in front of station; top of rail.....	793. 4
Penny station, 0.2 mile north of, 400 feet southwest of mouth of Caney Creek, 260 feet north of milepost 8, top of west end of small concrete culvert under Baltimore & Ohio R. R.; aluminum tablet stamped "783" ..	Feet. 783. 027
Penny station, 1.2 miles northeast of, 70 feet south of milepost 7, 0.2 mile south of bend in railroad and creek to east, in top of east end of stone culvert under Baltimore & Ohio R. R., at southeast corner; chiseled square.....	774. 72
Penny station, 1.9 miles northeast of, 30 feet north of road crossing, Baltimore & Ohio R. R. bridge over Shelby Creek, in top of west end of parapet wall of south abutment; chiseled square.....	768. 35

Penny station, 2.5 miles northeast of, in top of east end of concrete center pier of Baltimore & Ohio R. R. bridge over mouth of Robinson Creek and highway; aluminum tablet stamped "755".....	754. 901
Yeager station, 0.8 mile southwest of, 70 feet south of Riddle farm residence, 300 feet north of milepost 15, top of west end of iron culvert under railroad, at mouth of small branch from northwest; painted square.....	748. 10
Yeager, in front of station; top of rail.....	733. 7
Yeager, 470 feet north of station, at mouth of Little Creek, on north abutment top of west end of parapet wall of Baltimore & Ohio R. R. bridge over Shelby Creek; chiseled square.....	730. 70
Yeager station, 0.8 mile northeast of, 300 feet north of road crossing and residence of H. E. Yates, south abutment top of east end of parapet wall of Baltimore & Ohio R. R. bridge over Shelby Creek; aluminum tablet stamped "714".....	713. 886
Yeager station, 1.8 miles northeast of, 550 feet north of road crossing, in top of west end of parapet wall of south abutment of Baltimore & Ohio R. R. bridge over Shelby Creek; chiseled square.....	706. 84
Shelby station, 1.6 miles southwest of, west side of track, in point in base of milepost 1, on track side of fence; staple.....	701. 32
Shelby station, 0.6 mile northwest of, 475 feet west of junction of Baltimore & Ohio R. R. and Chesapeake & Ohio Ry., east stone abutment, in top of south end of parapet wall of Chesapeake & Ohio Ry. bridge over mouth of Shelby Creek; bronze tablet stamped "698 1913".....	697. 863
Fords Branch, at south end of station platform; top of rail.....	693. 2
Fords Branch station, 150 feet north of station signboard, in southeast corner of cattle guard; bolthead painted white.....	692. 38
Fords Branch station, 1.3 miles northeast of, 30 feet east of milepost H 110 E 18, on top of south end of concrete culvert under railroad; chiseled square.....	689. 10
Kewanee station, 140 feet east of platform, south end of concrete culvert under railroad, in top of; bronze tablet stamped "686".....	685. 977
Kewanee station, 0.8 mile northwest of, mouth of Marions Branch, in northeast corner of cattle guard; top of bolthead painted white.....	686. 50
Kewanee station, 1.6 miles northwest of, 400 feet north of milepost H 108 E 20, 150 feet north of house on west side of track, in northwest corner of cattle guard; top of bolthead painted white.....	686. 21
Island Creek, 340 feet north of station, in top of south abutment east end of stone bridge seat of Chesapeake & Ohio Ry. bridge over mouth of Island Creek; bronze tablet stamped "679".....	679. 358
Island Creek station, 0.9 mile northeast of, 225 feet north of milepost H 106 E 22, 200 feet south of center one of three houses on west side of railroad, on top of east end of concrete culvert under railroad; chiseled square.....	677. 98
Pikeville, at top of southwest corner of concrete curbing around station platform; chiseled square.....	680. 03
Pikeville, northwest corner of yard to Pike County courthouse; top of cap, on letter "B" (U. S. Corps of Engineers b. m.).....	683. 37
Pikeville, northwest corner of courthouse yard; top of pin at bottom inside of B. M. 44 (Army engineers' elevation not obtained).....	681. 38
Pikeville, northeast corner of Pike County courthouse, in north face of stone foundation, first stone under water table; bronze tablet stamped "685 Ky".....	685. 220
Pikeville, 0.8 mile northwest of, 90 feet east of railroad turntable, in top of north end of concrete culvert under railroad; chiseled square.....	674. 95

Pikeville, 1.7 miles northwest of, 70 feet north of Cedar Creek, east end of railroad cut, southwest corner of cattle guard, in top of post level with ground; copper nail.....	Feet. 678.21
Pikeville, 2.8 miles northwest of, 120 feet south of branch from west, west side of track, 270 feet south of house standing on east side of track, in cattle guard; center bolt-head painted white.....	677.69
From Alliance south along highway to Beaver, thence southwest and west to Fed, thence north to Drift.	
Alliance, 0.4 mile south of, 800 feet southwest of road forks, at mouth of Branhams Creek, 7 feet above and on west side of road, in face of sandstone rock; aluminum tablet stamped "726".....	725.711
Alliance, 1 mile southwest of, 0.7 mile southwest of road forks, at mouth of Branhams Creek, opposite and 100 feet north of residence of Jerry Sward standing on east side of road, 300 feet south of branch from west, on west side of road, at small drain crossing, in root on east side of 2-foot sycamore tree (called "Sixmile tree"); copper nail.....	694.30
Craynor, 650 feet north of post office, 350 feet north of M. Tackett's store, 80 feet south of point where S. Frazier's branch crosses road, on west side of road, in root on north side of 3-foot walnut tree; copper nail....	701.61
Craynor, 1 mile south of, 250 feet east of mouth of Will Hamilton's branch, on south side of road, in root on north side of 3-foot sycamore tree; copper nail.....	713.92
Craynor, 1.6 miles south of, 0.6 mile south of Will Hamilton's branch, 300 feet west of bend in creek to west, 500 feet west of mouth of Rod Akers's branch and residence of Robert Hamilton, 150 feet east of bend in creek to south, on north bank of creek, 20 feet from water's edge, in large sandstone rock; bronze tablet stamped "736 Ky".....	735.757
Craynor, 2.5 miles south of, at northwest corner of road forks, at mouth of Noah Newson's branch, end of spur from northwest, on north side of and 2 feet above road to west; on top of projecting sandstone rock; chiseled square.....	767.73
Craynor, 3.2 miles south of, mouth of Dry Branch, 60 feet east of mouth on north side of road, in root on south side of 2-foot sycamore tree; copper nail.....	790.81
Craynor, 4.1 miles south of, 770 feet north of mouth of Howell Branch, 300 feet south of residence of Jonah Isaacs standing on west side of road, on west bank of Mud Creek, in top of large sandstone rock; aluminum tablet stamped "825".....	824.451
Beaver, 0.25 mile west by 1.2 miles north of, at mouth of Mitchell Fork, at store of A. J. Hamilton, jr., in front of house standing on west side of road, in root on west side of 2-foot beech tree; copper nail.....	885.18
Beaver, 0.25 mile west of, 270 feet southwest of road forks, at mouth of Tackett Branch, on north bank of Mud Creek, in front face of corner foundation stone at southeast corner of M. E. Church; bronze tablet stamped "976".....	976.005
Beaver, 1.2 miles west of, mouth of Tim Hinson's branch, north side of Mud Creek, west side of branch, at third class road leading northwest to head of Fraziers Creek, 15 feet south of fence corner, in base on west side of 5-inch walnut tree; copper nail.....	1,060.88
Beaver, 1.9 miles southwest of, 50 feet north of mouth of Harmon More Fork (last forks of Mud Creek), north side of creek, on top of projecting rock in cliff, about 1.5 feet above bed of creek; chiseled square.....	1,155.29

Fed, 3.6 miles east of, 550 feet northwest of schoolhouse, 450 feet northwest of branch from southeast, 0.25 mile south of Joseph Henson's residence, 60 feet north of mill and dam, on east bank of Clear Creek, 4.5 feet above water level, in face of rock cliff; aluminum tablet stamped "1112"	Feet. 1, 111. 429
Fed, 2.7 miles east of, at mouth of Reynolds Branch, 170 feet west of Jim Reynolds store, on north bank of Clear Creek, opposite mouth of branch, on top of rock cliff; chiseled square	1, 018. 76
Fed, 1.9 miles east of, 60 feet east of mouth, south bank of Clear Creek, north side of road to south, at mouth of Osborne Branch, at road forks, in root on west side of 1-foot sycamore tree; copper nail	947. 89
Fed, 1.25 miles east of, 180 feet east of mouth of John Reynolds Branch, north bank of Clear Creek, in root on south side of 2-foot sycamore tree; copper nail	899. 75
Fed, mouth of Clear Creek, north side of Clear Creek, east side of left fork of Beaver Creek, 30 feet above bed of creek, in point of spur from east, in face of sandstone outcrop; bronze tablet stamped "837"	837. 256
Fed, 1.1 miles north of, 340 feet north of mouth of Alse Justice Branch, 100 feet north of Ben Martin's store, on west side of road, in root on south side of 8-inch poplar tree; copper nail	777. 58
Fed, 1.9 miles north of, at mouth of small drain from east, at splash dam, east end of loop in creek to east, large white house known at "The Company Club House" on east bank of left fork of Beaver Creek, north side of road and branch from east, on southwest corner of concrete well curbing in front yard; chiseled square	783. 48
Fed, 3.5 miles north of, 285 feet north of mouth of branch from east, east end of loop in creek to east, 0.3 mile southeast of McCurry Branch, west side of creek, at fence corner, 3 feet east of fence, in root on west side of 6-inch sumac tree; copper nail	738. 70
Fed, 3.8 miles north of, 60 feet south of mouth of McCurry Branch, west side of road and creek, inside of fence, in root on north side of 2-foot elm tree; copper nail	735. 33
Fed, 3.8 miles north of, 250 feet west of mouth of McCurry Branch, on north side of McCurry Branch, at rear of house, end of low spur from northwest, 25 feet above branch, in face of sandstone rock outcrop; aluminum tablet stamped "766"	765. 666
McDowell, 3.2 miles south of, 100 feet west of mouth of John Moore Branch, 20 feet east of bend in road to south, on south side of road and branch, in foot of telephone pole; copper nail	728. 07
McDowell, 2.5 miles south of, 60 feet south of road forks, 60 feet west of store, east bank of Beaver Creek at mouth of Spuewen Camp Branch, south side of branch, at corner of picket fence, on top of rock; chiseled square	716. 28
McDowell, 1.8 miles south of, opposite small branch from east, east end of loop in creek to east, opposite and 50 feet south of log house, west side of Beaver Creek and road at fence line, in root on creek side of 2-foot elm tree used as corner fence post; copper nail	703. 30
McDowell, 0.6 mile southwest of, 100 feet north of bend in road and creek to east, on east side of road at fence line; in root on north side of 2.5-foot elm tree; copper nail	697. 84
McDowell, mouth of Fraziers Creek, northeast corner of road forks, 20 feet south of southeast corner of Millford Hall's store, 20 feet north of southeast corner of store lot at east lot line, in top of sandstone rock 2.5 feet long and 5 inches square at top, set in ground with top 4 inches above ground; bronze tablet stamped "705 1913"	704. 539

McDowell, 1 mile northwest of, 835 feet north of residence of Preston Hall, 210 feet north of branch from east, at east end of loop in creek to east, on north bank of small drain from east, east bank of Beaver Creek, west side of road, in root on south side of 14-inch elm tree; copper nail.....	Feet. 695.76
Minnie, 0.5 mile east of, road forks opposite mouth of Sycamore Branch, 75 feet east of William Stumbo & Son's store, 30 feet north of barn, front of coal shed, southwest corner of road forks at drain crossing, on edge of west wagon track, on top of sandstone; chiseled square.....	696.51
Minnie, 0.5 mile east by 0.9 mile northeast of, at mouth of Simpson and Martin Branch, east side of road, north side of branch, at foot of low spur from northeast, below church and schoolhouse, 40 feet east of road crossing branch, in face of rock cliff, 2.5 feet above bed of branch; aluminum tablet stamped "688 1913".....	687.597
Minnie, 0.5 mile east by 1.4 miles northeast of, southeast corner of wooden highway bridge over Frozen Creek, top of south end of log; copper nail..	689.03
Drift, 0.5 mile east by 0.2 mile south of, 50 feet north by 30 feet west of stream, 10 feet west of west fence line, 60 feet north of fence corner, at road crossing Joel Martin branch from east, in root on road side of 1-foot elm tree; copper nail.....	678.30
Drift, 0.5 mile east by 0.3 mile northeast of, 180 feet east of small branch from southeast, 300 feet west of bend in creek to north, north side of road, in front of house standing on south side of road, south side of creek, opposite and 100 feet east of house standing on north side of creek; in root on south side of 3-foot elm tree; copper nail.....	670.86

CORNETTSVILLE QUADRANGLE.

[Latitude, 37°-37° 15'; longitude, 83°-83° 15'.]

From point near Blackey station northwest along Lexington & Eastern Ry.
to Hazard.

Blackey station, 1.8 miles northwest of, road crossing at mouth of Candill's Branch, 40 feet west of branch, east side of road, north side of track, in base of telegraph pole; spike marked "980.3".....	979.95
Blackey station, 2.9 miles northwest of, 470 feet west of Gourd post office, in top of east stone abutment at north end of bridge over North Fork of Kentucky River; aluminum tablet stamped "972".....	971.974
Ulvah station, 1.9 miles southeast of, at mouth of branch from north at residence of John Back, 0.2 mile west of bend in river to west, on top of south end of stone culvert under railroad; chiseled square marked "970.2".....	969.83
Ulvah station, 0.7 mile southeast of, at mouth of small drain from north, in front of and 100 feet east of residence of Widow Lusk, top of south end of stone culvert under railroad; chiseled square marked "963.9".....	963.55
Ulvah, north side of track, northeast pier of stone foundation of railroad water tank, in top of second stone from top; aluminum tablet stamped "962".....	961.742
Ulvah station, 0.8 mile west of, opposite and 200 feet east of branch from south, on south side of railroad, on top of stone culvert; chiseled square marked "956.1".....	955.76
Ulvah station, 1.5 miles northwest of, at east end of railroad cut through spur, near mouth of Bull Run, on east abutment south end of parapet wall of bridge over North Fork of Kentucky River; chiseled square marked "953.9".....	953.50
Cornettsville, in front of station; top of rail.....	953.6

Cornettsville, 0.6 mile west of, opposite mouth of Leatherwood Creek; 50 feet east by 80 feet north of east end of railroad cut, 80 feet north of railroad on east bank of small drain from north, in rock outcrop; aluminum tablet stamped "961"	Feet. 960.572
Cornettsville, 1.7 miles northwest of, opposite and 150 feet south of mouth of Campbell Branch, 110 feet north of milepost Lex. 154, on top of east end of stone culvert under railroad; chiseled square marked "944.2" ...	943.78
Cornettsville, 2.8 miles northwest of, 550 feet north of milepost Lex. 153, on top of east end of stone culvert under railroad; chiseled square marked "935.1"	934.66
Hombre station, 1.2 miles south of, at mouth of Fort Branch, north end, west side of railroad trestle over Fort Branch, in top of guard rail; bolt head painted white, marked "933.0"	932.59
Hombre station, 150 feet south by 75 feet east of station, 200 feet north of Big Branch, in barn yard of, in rear of Richard McIntire's store (Fort Branch post office), 10 feet south of southeast corner of store, 5 feet south by 15 feet west of northwest corner of barn, in rock ledge; aluminum tablet stamped "923 1913"	922.200
Hombre station, 1 mile northwest of, 200 feet east of curve to northwest, at east end of cut, 0.3 mile east of milepost Lex. 150, north end of stone culvert under railroad, on top; chiseled square marked "918.0"	917.62
Hombre station, 2.1 miles northwest of, at mouth of Hurricane Branch, at east end of stone culvert under railroad, in top; chiseled square marked "910.2"	909.85
Masu station, 1.8 miles east of, 100 feet west of Felix Brashear's residence, just east of bend in river to south, south end of stone culvert under railroad; chiseled square marked "910.9"	910.60
Masu station, 0.6 mile east of, west abutment top of north end of parapet wall of railroad bridge over North Fork of Kentucky River; aluminum tablet stamped "908 1913"	907.560
Masu station, in front of station; top of rail	905.4
Masu station, 500 feet west of, in top of west abutment north end of railroad bridge over mouth of Macies Creek; chiseled square marked "897.52" ..	897.16
Masu station, 0.5 mile northwest of, north end of guard rail on east side of trestle bridge over mouth of Elk Branch; top of bolthead painted white, marked "905.8"	905.43
Masu station, 1.4 miles northwest of, at mouth of small drain from northwest at bend in river and railroad to east, on top of west end of stone culvert under railroad; chiseled square marked "894.9"	894.51
Hamdin station, 0.3 mile south of, about 700 feet north of mouth of Carr Fork, railroad bridge over North Fork of Kentucky River, on top of east abutment at south end; aluminum tablet stamped "890"	889.868
Hamdin station, in front of station; top of rail	897.1
Hamdin station, 0.3 mile north of, 220 feet south of Jeff post office, north end of guard rail, west side of railroad, on trestle bridge over mouth of Buckeye Creek; top of bolthead painted white, marked "895.8"	895.31
Hamdin station, 1.3 miles northwest of, in front of two houses standing on north side of track, in top of north end of stone culvert under railroad at drain from northeast; chiseled square marked "884.1"	883.60
Edjouet station, in front of; top of rail	885.9
Edjouet station, 0.5 mile north of, 75 feet south of mouth of Raccoon Branch, 100 feet east of railroad, east side of road, in rock cliff; aluminum tablet stamped "879"	878.099

Edjouet station, 1.4 miles northwest of, 400 feet north of mouth of Buffalo Branch, 200 feet east by 330 feet south of house standing on river bank, west side of track, 430 feet south of third-class road crossing, on top of west end of stone culvert under railroad; chiseled square marked "879.1"	Feet. 878.63
Hazard, 1.5 miles southeast of, at mouth of Gergor Branch, top of east end of stone culvert under railroad; chiseled square marked "866.5"	866.02
Hazard, 0.5 mile southeast of, on south abutment east end of parapet wall of south approach to railroad bridge over North Fork of Kentucky River, on top of east end of tunnel; chiseled square marked "877.0"	876.44
Hazard, in front of Lexington & Eastern Ry. station; top of rail	867.4
Hazard, First National Bank Building, in face of water table north side of entrance; aluminum tablet stamped "873"	873.280
From Ulvah station south along highways to mouth of Willson Branch on Defeated Creek, thence west to Cutshin Creek near Kate post office, thence north to Mason station.	
Ulvah station, 1.4 miles south of, on north side of Line Fork, at mouth of small drain from north, in front of William Lusk's store, in top of flat rock; chiseled square marked "954.1"	953.77
Ulvah station, 2.3 miles southeast of, bend in Line Fork to east, 300 feet northwest of mouth of branch from south, north side of creek, at fence corner, in root on creek side of 2-foot sycamore tree; copper nail marked "971.5"	971.15
Ulvah station, 3.3 miles southeast of, east bank of creek, at mouth of Cliff Branch on south side, on top of stone between roots of 2½-foot sycamore tree; chiseled square marked "978.6"	978.22
Ulvah station, 3.8 miles southeast of, 20 feet south of apple tree, east side of road, at mouth of Campbell Branch on south side, 5 feet north of gate, on top of rock; chiseled square marked "993.0"	992.58
Ulvah station, 4 miles southeast of, at west side of road, east bank of creek, opposite mouth of Long Branch, in root on roadside of 14-inch birch tree; tenpenny nail marked "991.6"	991.22
Banks, 1.6 miles northeast of, 170 feet south of mouth of Turkey Creek, on east bank of Line Fork, at point of spur from southeast, 90 feet south of 2½-foot sycamore tree, in rock cliff; aluminum tablet stamped "1012"	1,011.639
Banks, 0.8 mile northeast of, at bend in creek to southwest, west side of creek, opposite mouth of Pigeon Fork, in root on west side of 14-inch sycamore tree; copper nail marked "1044.6"	1,044.26
Banks, on west side of Turkey Creek, 30 feet south of mouth of Bates Fork, in front of post office, on top of rock; chiseled square marked "1080.5" ..	1,080.08
Banks, 0.5 mile south of, trail to southeast 100 feet south of mouth of Owens Cabin Branch, east bank of creek, west side of road at spring, on top of flat rock; chiseled square marked "1107.1"	1,106.74
Banks, 1.4 miles south of, 70 feet south of mouth of Eastern Branch, on east bank of creek; opposite large rock and 2 chestnut trees, in top of large sandstone rock; chiseled square marked "1162.3"	1,161.86
Banks, 2.1 miles south of, at west side of creek, 75 feet south of mouth of Deaden Branch, at foot of fence corner, in front of Mr. Smith's residence, in bed of creek, on top of flat rock; chiseled square marked "1218.3" ..	1,217.95
Banks, 2.6 miles south of, trail leading south to head of Defeated Creek, 100 feet west and 40 feet north of mouth of branch and trail to south, inside of fence line, in top of large sandstone rock; aluminum tablet stamped "1266"	1,265.496

Banks, 2.6 miles southwest by 0.4 mile south of, on bench on north side of divide between Turkey and Defeated creeks, at bend in trail to southwest, on west side of trail, in root on north side of 15-inch maple tree; copper nail marked "1798.9".....	Feet. 1, 798.46
Banks, 3.4 miles southwest of, at top of divide between Turkey Creek and Willson Branch of Defeated Creek, east side of trail, in root on east side of 2.5-foot oak tree; copper nail marked "2023.4".....	2, 023.03
Defeated Creek, 3.8 miles southwest by 0.6 mile north of, at forks of Willson Creek, at foot of south side of divide between Turkey and Defeated creeks, 150 feet northeast of forks, east side of trail, north bank of branch, 2 feet above water, on top of stone bedded in roots on south side of 14-inch gum tree; chiseled square marked "1637.8".....	1, 637.43
Defeated Creek, 3.8 miles southwest of, east side of Willson Branch, 60 feet north of mouth in root on east side of 2-foot sycamore tree; copper nail marked "1421.2".....	1, 420.80
Defeated Creek, 4.2 miles southwest of, road forks 50 feet west of mouth of Trace Branch, road leading south to Trace Fork of Line Fork, on south side of bed of Defeated Creek, at northeast edge of clump of pine trees, in top of large sandstone rock; aluminum tablet stamped "1481".....	1, 480.575
Defeated Creek, 5 miles southwest of, 30 feet south of forks at head of Defeated Creek, trail leading southwest to head of Jacksons Branch of Big Leatherwood Creek, west bank of south fork at end of spur from west, at water's edge, in root on south side of 1-foot chestnut tree; copper nail marked "1704.3".....	1, 703.88
Delphia, 4.7 miles east of, at top of divide between Defeated Creek and Jacksons Fork of Big Leatherwood Creek, at Perry-Letcher county line, 20 feet east of center of ridge, 20 feet south of trail, in root on west side of 3-foot chestnut tree; copper nail marked "2340.7".....	2, 340.28
Delphia, 4 miles east of, at head of Jacksons Fork, at foot of west side of divide between Defeated Creek and Big Leatherwood Creek, 250 feet north of forks, 250 feet southeast of house, 130 feet east of trail crossing creek, 75 feet west of two large rocks, on south side of trail, in root on south side of 15-inch lone pine tree; copper nail marked "1744.3".....	1, 743.91
Delphia, 3.7 miles east of, at mouth of Jacksons Fork, at bend in Big Leatherwood Creek to south, 35 feet west of forks of trail, 30 feet south of trail crossing branch, 50 feet south of log barn, south bank of Jacksons Fork and north side of trail, in top of large sandstone rock; chiseled square marked "1617.3".....	1, 616.86
Delphia, 2.4 miles northeast of, 200 feet west of mouth of Bark Camp Branch, on north bank of Leatherwood Creek, in top of large sandstone rock at water's edge; aluminum tablet stamped "1423".....	1, 423.029
Delphia, 1.5 miles northeast of, 110 feet south of mouth of Beech Rock Branch, 170 feet south of bend in creek to west, in front of stable, in center of road; top of rock, chiseled square marked "1341.6".....	1, 341.120
Delphia, 0.5 mile northeast of, in mouth of branch from east, opposite residence of Andy Shepherd, on west side of top of large sandstone rock; chiseled square marked "1209.5".....	1, 209.02
Delphia, west side of mouth of Stony Fork, in front of post office, at north end on west side of log breakwater, at south post of gate to store, in top of lower log; copper nail marked "1165.5".....	1, 165.05
Delphia, 0.8 mile northwest of, 800 feet southeast of mouth of Lynn Fork, 175 feet south of house, 15 feet east of road, 15 feet north of ford; top of gray flat rock; chiseled square marked "1119.8".....	1, 119.37

	Feet.
Delphia, 1.5 miles northwest of, 350 feet south of mouth of Clover Fork, 40 feet south of residence of William Asher, on east bank of Leatherwood Creek, under small elm and gum trees at water's edge, on top of sandstone rock; aluminum tablet stamped "1088".....	1, 087. 733
Delphia, 1.5 miles northwest by 0.8 mile west of, at forks of Clover Fork, on south bank of Left Fork, 60 feet southwest of center of forks, 10 feet east of small sycamore tree, 4 feet north of fence line, 5 feet northeast of east post of gate, on top of flat rock; chiseled square marked "1141.3".....	1, 140. 81
Delphia, 1.5 miles northwest by 2 miles west of, at mouth of Saddle Fork on Clover Fork, top of rock; chiseled square marked "1308.3".....	1, 307. 83
Delphia, 1.5 miles northwest by 2.5 miles west of, 20 feet north of mouth of Bee Tree Fork, west bank of Clover Fork, on top of rock; chiseled square marked "1400.8".....	1, 400. 37
Delphia, 1.5 miles northwest by 3.6 miles southwest of, at head of Clover Fork, opposite mouth of Lick Fork, west side of trail running under cliff (known as the Old Rockhouse), 0.6 mile east of Low Gap between Clover Fork and Low Gap Branch of Cutshin Creek, 10 feet south of north cliff, 2.5 feet above trail, set vertically in face of rock wall; aluminum tablet stamped "1605".....	1, 605. 046
Delphia, 1.5 miles northwest by 4.2 miles southwest of, at top of divide between Clover Fork and Low Gap Branch of Cutshin Creek, north side of trail, on Perry-Leslie county line, on top of flat rock; chiseled square marked "1755.55".....	1, 755. 09
Kate, 2 miles north by 1.25 miles southeast of, on Low Gap Branch of Cutshin Creek, 25 feet north of mouth of small branch from east, east side of bend in trail and creek to south; on top of large flat rock; chiseled square marked "1603.4".....	1, 602. 89
Kate, 2 miles north of, 220 feet north of house, 215 feet south of road forks, opposite mouth of Low Gap Branch, west side of and 3 feet above road, at northeast corner of large sandstone rock; aluminum tablet set vertically, stamped "1412".....	1, 411. 794
Kate, 2.5 miles north of, at mouth of Guthrie Branch, on east side of Cutshin Creek, south side of branch, in trail on top of rock; chiseled square marked "1324.5".....	1, 324. 07
Kate, 3.3 miles north of, on north bank of creek, south side of road at west end of log wing dam, in front of gate to house at ford, opposite mouth of Roan Branch, on top of rock; chiseled square marked "1237.8".....	1, 237. 36
Kate, 3.9 miles north of, 500 feet northwest of mouth of Laurel Branch, 30 feet north of ford, on east side of and 5 feet above road, on top of rock; chiseled square marked "1177".....	1, 176. 52
Kate, 4.6 miles north of, 3 miles southeast of Cutshin post office, on east bank, 200 feet northeast of mouth of Trace Branch, 150 feet south of Felix Lewis's residence, at water's edge, in top of large sandstone rock; aluminum tablet stamped "1107".....	1, 106. 466
Kate, 5.7 miles north of, 30 feet south of mouth and on south bank of Narrow Branch, on Trace Branch of Cutshin Creek, 100 feet southeast of schoolhouse, in root on south side of 2-foot poplar tree; copper nail marked "1198.5".....	1, 198. 04
Kate, 6.6 miles north of, 15 feet west of mouth and on north bank of Rock Creek, on Trace Fork of Cutshin Creek, on top of rock; chiseled square marked "1255.3".....	1, 254. 82
Farler, 5.2 miles south of, 30 feet southeast of intersection on south side of Trace Branch, at mouth of Lick Fork of Trace Branch of Cutshin Creek, at foot of fence, in top of rock; chiseled square marked "1267.35".....	1, 266. 86

Farler, 5.2 miles south of, 300 feet north of mouth of Lick Fork (Caddy Branch) of Trace Branch of Cutshin Creek, on east side of road, in top of rock ledge; aluminum tablet stamped "1270".....	Feet. 1, 269. 220
Farler, 4.8 miles south of, at forks of Lick Fork (Caddy Branch) of Trace Branch of Cutshin Creek, 150 feet northwest of intersection of forks, in in root on west side of 1-foot walnut tree; copper nail marked "1289.8" ..	1, 289. 27
Farler, 4 miles south of, 30 feet north of top of divide between Right Fork of Macies Creek and Lick Fork of Trace Branch of Cutshin Creek, west side of trail, in root on east side of 1-foot black-gum tree; copper nail marked "1587.6"	1, 587. 11
Farler, 3.4 miles south of, 300 feet south of branch from west, 200 feet south-east of house standing on west side of creek, south side of trail, east side of creek, at ford, in top of rock; chiseled square marked "1406.1"	1, 405. 58
Farler, 2.6 miles south of, 600 feet south of mouth of Adams Branch, at bend in creek to west, north edge of timber at forks of trail, east side of trail to south, south side of trail to west, 20 feet west of 2.5-foot white-oak tree, 30 feet south of 2-foot beech tree, 50 feet west of Adams Branch, in top of large flat rock; aluminum tablet stamped "1262"	1, 261. 977
Farler, 1.9 miles south of, 20 feet north of Saws Branch, 5 feet south of gate on west side of road, in front of Wm. Caudill's residence, at foot of fence; in top of stone, chiseled square marked "1180.5"	1, 180. 04
Farler, 0.6 mile south of, east bank at mouth of Mud Lick (Fields Fork), west bank of Right Fork, in root on south side of 1.5-foot sycamore tree; copper nail marked "1101.3"	1, 100. 83
Farler, 700 feet east of, 300 feet west of road forks, north side of road, south side of creek, in root on east side of 2-foot sycamore tree; 2 fence staples marked "1084.1"	1, 083. 60
Farler, 1,150 feet east of post office, 150 feet east of forks of road, 150 feet west of small house standing on north side of road (first house east of post office and road forks), 50 feet north of and 13 feet above creek at ford, on top of sharp projecting sandstone rock; aluminum tablet stamped "1093" ..	1, 092. 528
Masu station, 3.4 miles southwest of, 75 feet east of mouth of Wootens Fork, on north bank of creek, in root 3 feet west of 3-foot sycamore tree; three 8-penny nails marked "1053.7"	1, 053. 21
Masu station, 2.1 miles southwest of, northwest corner of intersection of creeks, mouth of Big Branch, in top of rock; chiseled square marked "1006.97"	1, 006. 45
Masu station, 1.2 miles southwest of, at bend in creek and road to west, 70 feet west of bend, 75 feet east of ford, north side of road, south bank of creek, in root on road side of 10-inch pine tree; four 8-penny nails marked "963.9"	963. 34

OVEN FORK QUADRANGLE.

[Latitude, 37°-37° 15'; longitude, 82° 45'-83°.]

From point near Kona station southwest along Lexington & Eastern Ry. to Blackey station (Indian Bottom post office) and 0.7 mile west of.

Kona station, 1.2 miles northwest of, 460 feet east of mouth of Millstone Creek, 270 feet east of store house, in front of house owned by Minnie Venter, on top of north end of culvert under railroad; chiseled square marked "1234.5"	1, 234. 44
Kona station, 1.7 miles northwest of, 0.4 mile southwest of mouth of Millstone Creek, on top of parapet wall of east abutment north side of track of railroad bridge over North Fork of Kentucky River; chiseled square marked "1230.7"	1, 230. 69

May King station, 2 miles northeast of, at mouth of Thornton Creek (Sergeant post office), on west concrete abutment top of south end of parapet wall of railroad bridge over Thornton Creek; aluminum tablet stamped "1222".....	Feet. 1, 221. 857
May King station, 1.3 miles northeast of, on top of east end of parapet wall of north abutment of railroad bridge over North Fork of Kentucky River; chiseled square marked "1217.0".....	1, 216. 97
May King station, 0.7 mile northeast of, 15 feet west of road crossing at railroad center stake; copper nail marked "1213.1".....	1, 213. 08
May King station, 0.25 mile northeast of, double undergrade crossing opposite May King post office, south crossing, in top of west end of plank abutment; copper nail stamped "1207.7".....	1, 207. 59
May King station, in front of station; top of north rail.....	1, 203. 0
May King station, opposite mouth of Bottom Fork, 40 feet south of track, 40 feet east of station board, in root on west side of 2-foot walnut tree; copper nail stamped "1202.5".....	1, 202. 42
May King station, 0.8 mile southwest of, 90 feet east of road crossing, on top of north end of stone culvert under railroad; chiseled square marked "1191.8".....	1, 191. 76
May King station, 1.6 miles southwest of, at mouth of Friday Branch on top of east end of stone culvert under railroad; chiseled square marked "1173.0".....	1, 172. 91
Whitesburg, 2.6 miles northeast of, 0.2 mile north of mouth of Colby Creek, at milepost Lex. 182 on west side of track, in face of rock cut; aluminum tablet stamped "1181".....	1, 181. 051
Whitesburg, 2.5 miles northeast of, at mouth of Colby Creek, in top of south plank abutment, east plank wall of railroad trestle over mouth of Colby Creek; copper nail marked "1174.6".....	1, 174. 49
Whitesburg, 1.8 miles southeast of, 30 feet north of road crossing, in east side of track, in base of telegraph pole; spike marked "1166.6".....	1, 166. 49
Whitesburg, 1 mile southeast of, on top of north end of plank wall at west abutment of railroad trestle over mouth of branch from north; copper nail marked "1163.6".....	1, 163. 49
Whitesburg, 0.6 mile southeast of, on top of west end of parapet wall at north abutment of railroad bridge over North Fork of Kentucky River; chiseled square marked "1156.4".....	1, 156. 26
Whitesburg, 300 feet east of station, north side of track and west side of road at road crossing, on top of stone; chiseled square marked "1144.9"....	1, 144. 71
Whitesburg, in front of Lexington & Eastern Ry. station; top of rail.....	1, 146. 6
Whitesburg, at northeast corner of Letcher County courthouse, in face of stone foundation; aluminum tablet stamped "1163".....	1, 162. 765
Whitesburg, 0.5 mile northwest of, on top of west end of parapet wall at north abutment of railroad bridge over North Fork of Kentucky River; chiseled square marked "1142.8".....	1, 142. 65
Whitesburg, 1.25 miles northwest of, on top of south parapet wall of east abutment of railroad bridge over North Fork of Kentucky River; chiseled square marked "1132.0".....	1, 131. 85
Whitesburg, 2.4 miles northwest of, 1.1 miles northeast of mouth of Big Cowan Creek, 120 feet north of house owned by Bob Day, on top of east end of stone culvert under railroad; chiseled square marked "1114.9"....	1, 114. 68
Whitesburg, 3.7 miles northwest of, 160 feet west of railroad bridge over Cowan Creek, on top of south end of stone culvert under railroad near mouth of Big Cowan Creek; chiseled square marked "1110.6".....	1, 110. 36

Uz station, 1.1 miles east of, 30 feet west of private crossing, 200 feet west of point of ridge from south, in front of house standing on south side of track, on north side of track, in base of telegraph pole; spike marked "1098.4".....	Feet. 1, 098. 15
Uz station, 0.6 mile southeast of, at west end of tunnel, in top of south parapet wall of west abutment of Lexington & Eastern Ry. bridge over North Fork of Kentucky River; chiseled square marked "1091.9".....	1, 091. 69
Uz station, 10 feet south of track, 30 feet north by 30 feet east of Nick Ison's store, 1 foot lower than rail, in top of south end of stone culvert under railroad; chiseled square marked "1079.4".....	1, 079. 19
Uz station, 0.6 mile southwest of, on top of west end of parapet wall of south abutment of railroad bridge over North Fork of Kentucky River; chiseled square marked "1074.1".....	1, 073. 87
Uz station, 1.9 miles southwest of, 600 feet west of mouth of Kingdom Come Creek, on top of south end of parapet wall of east abutment of railroad bridge over North Fork of Kentucky River; aluminum tablet stamped "1064".....	1, 063. 678
Uz station, 2.7 miles west of, top of bolt head south side of track in guard rail at east end of railroad trestle bridge over mouth of Smoot Creek; painted square marked "1056.3".....	1, 056. 08
Roxana station, 1.5 miles northeast of, at point where road turns to north-west leaving railroad to cross point of ridge, on top of north end of stone culvert under railroad; chiseled square marked "1047.8".....	1, 047. 53
Roxana station, 750 feet east of, 500 feet west of post office, opposite mouth of King Creek, 70 feet east by 30 feet south of undergrade crossing, 30 feet south of road, in rock ledge; aluminum tablet stamped "1048".....	1, 047. 847
Roxana station, 1.1 miles northwest of, 750 feet east of mouth of creek from south, at mouth of drain from north (east drain of finger spurs from north), north end of stone culvert under railroad, on top; chiseled square marked.....	1, 025. 11
Blackey station, 2.3 miles south of, at south end of deep cut just south of bend in river and railroad to east, opposite store house and mill dam, east side of track, on level with rail, on top of rock; chiseled square marked "1018.8".....	1, 018. 52
Blackey station, 1.2 miles south of, on top of west end of parapet wall of south abutment of Lexington & Eastern Ry. bridge over North Fork of Kentucky River; chiseled square marked "1008.3".....	1, 008. 04
Blackey station (Indian Bottom post office), just east of, 0.3 mile northwest of mouth of Rockhouse Creek, south abutment east concrete wing wall of highway bridge over North Fork of Kentucky River, in top; aluminum tablet stamped "1000".....	999. 348
Blackey, in front of station; top of rail.....	998. 3
Blackey station, 0.7 mile northwest of, opposite and 300 feet west of mouth Elk Creek, in front of I. D. Candill's residence, on north side of track, on top of north end of stone culvert under railroad; chiseled square marked "991.8".....	991. 48
From mouth of Big Cowan Creek south along highways to Partridge post office, thence east to Oven Fork.	
Whitesburg, 3.7 miles northwest of, 400 feet south of mouth of Big Cowan Creek, on west side of creek, in top of rock ledge; aluminum tablet stamped "1104".....	1, 103. 400
Dongola, 0.25 mile west by 0.6 mile northwest of, at mouth of Browns Branch, on rock bottom in center of Browns Branch, on south side of Big Cowan Creek; chiseled square marked "1119.7".....	1, 119. 51

Dongola, 0.25 mile west of, on west side of mouth of Little Cowan Creek at forks, 15 feet above bed of stream, in face of rock ledge; aluminum tablet stamped "1149"	Feet. 1, 148. 362
Dongola, 0.25 mile west by 0.5 mile southeast of, at mouth of branch from east, on west side of road, on east side of Cowan Creek, in root on creek side of 2-foot sycamore tree; copper nail marked "1152.8"	1, 152. 54
Mandrake, 1.4 miles northeast of, at mouth of Bart Ester branch from east, east side of Cowan Creek and west side of road, 40 feet east of mouth of branch, in root on east side of 2-foot sycamore tree; copper nail marked "1184.3"	1, 184. 12
Mandrake, 0.4 mile northeast of, east side of mouth of Joe Fraziers Branch, 60 feet northeast of intersection of creeks, on north side of road, in root on road side of 2-foot sycamore tree; copper nail marked "1270.1"	1, 269. 89
Mandrake, 0.4 mile southwest of, opposite mouth of Meeting House Branch, 23 feet northeast of northwest corner of schoolhouse, on south side of Cowan Creek, on top of large sandstone rock; chiseled square marked "1330.2"	1, 329. 96
Mandrake, 0.8 mile west of, in center of road forks at road leading north to Kingdom Come Creek, north side of east-west road, on top of sandstone rock; chiseled square marked "1373.9"	1, 373. 66
Mandrake, 1.2 miles southwest of, 225 feet south of road forks, on west side of road and east side of small branch from south, road leading south across Pine Mountain, in top of large sandstone rock; aluminum tablet stamped "1434"	1, 433. 548
Mandrake, 1.2 miles southwest by 0.7 mile south of, at bend in road to west on hillside, at upper edge of clearing on east side of road, on west side of road at point in road, on top of rock; chiseled square marked "1895.96" ..	1, 895. 73
Mandrake, 1.2 miles southwest by 1.2 miles south of, at first intersection of road and creek on mountain side, south side of road, east side of creek, on top of sandstone rock; chiseled square marked "2188.9"	2, 188. 71
Partridge, 1.9 miles north of, top of Scuttle Hole Gap in Pine Mountain between Partridge and head of Big Cowan Creek, 45 feet south of summit, on east side of road, on top of sandstone rock; aluminum tablet stamped "2518"	2, 517. 738
Partridge, 1.3 miles north of, east side of road on mountain side, at end of spur where road turns down steep grade to southeast, in root on road side of 1.5-foot chestnut-oak tree; copper nail marked "2358. 0"	2, 357. 76
Partridge, 0.9 mile north of, at gap in spur, road turns to west side of spur at south end of gap, at bend in road to west, on east side of road, in root on west side of 2-foot chestnut tree; copper nail marked "2113.0"	2, 112. 69
Partridge, 0.3 mile northeast of, on west side of road, north side of gap in spur, at base of telephone pole, in root on south side of old 2-foot stump; copper nail marked "1753.6"	1, 753. 35
Partridge, 50 feet west of post office, 140 feet west of road forks, 90 feet west of branch from north, on north side of road, in top of rock outcrop; aluminum tablet stamped "1585"	1, 584. 723
Partridge, 0.7 mile northeast of, at north end of loop in river, north bank of river, south side of road at cove to north, 200 feet east of house, four small pine trees, in root of west dead tree on road side; copper nail marked "1580.5"	1, 580. 19
Partridge, 1.4 miles northeast of, bend in road to south, 300 feet north of mouth of Horseshoe Branch, in center of road at bend in front of Hiram Raleigh's residence, east side of branch, on top of stone; chiseled square marked "1586.1"	1, 585. 82

Partridge, 1.8 miles northeast of, 50 feet east of church, 175 feet east of ford, on north side of road, in root on road side of 14-inch hickory tree; copper nail marked "1596.7"	Feet. 1, 596. 44
Partridge, 2.5 miles northeast of, at foot of ford across Cumberland River, north side of where road crosses low gap in spur, west side of river, north side of road at water's edge, on top of stone; chiseled square marked "1595.8"	1, 595. 47
Partridge, 3 miles northeast of, at bend in road and river to south at mouth of branch from north, 40 feet north of road, 20 feet east of branch, 15 feet east of forked pine tree, 10 feet west of center of west side of blacksmith shop owned by Henry Maggard, in top of sandstone rock; aluminum tablet stamped "1624"	1, 623. 984
Partridge, 3.9 miles northeast of, 0.4 mile northwest of mouth of Franks Creek, in southeast corner of bend to east in road, in front of residence of Jake Day, in root on road side of 1-foot butternut tree; copper nail marked "1647.4"	1, 647. 14
Partridge, 4.3 miles northeast of, 120 feet west of road forks at mouth of Franks Creek, 250 feet east of residence of Collier's heirs, on north side of road, at fence corner, in root on road side of 2.5-foot white-oak tree, copper nail marked "1640.7"	1, 640. 38
Eolia, 0.9 mile west of, 0.25 mile north of mouth of creek from southwest at house on east side of road, 250 feet north of bend in road to east, southwest corner of road forks, at west end of gate, in base of fence post; copper nail marked "1645.5"	1, 645. 19
Eolia, 70 feet west of road to south, in yard of public schoolhouse, 35 feet south of branch, 45 feet east of schoolhouse, in top of sandstone rock about 15 inches above ground; aluminum tablet stamped "1685"	1, 685. 187
Eolia, 1.1 miles east of, at foot of hill between Meadow Fork and Meadow Branch, 175 feet southeast of barn of William Stergill, 100 feet southeast of bend in road to southeast, 10 feet south of road, in root on south side of 2.5-foot chestnut tree; copper nail marked "1859.7"	1, 859. 42
Oven Fork, 0.3 mile southwest of, 40 feet northeast of top of ridge, 15 feet north of road at point where it crosses ridge, in root on road side of 3.5-foot chestnut tree; copper nail marked "2109.1"	2, 108. 77
Oven Fork, in front of post office, 30 feet west of stream crossing, south side of road, at foot of corner fence post (second post west of gate), on top of flat rock; chiseled square marked "2022.9"	2, 022. 62
Oven Fork, 0.5 mile east of, at foot of east side of hill on Meadow Branch, in center of road forks, on top of stone; chiseled square marked "1911.06" ..	1, 910. 74
Oven Fork, 0.6 mile east of, at forks of Meadow Branch, 70 feet west of stream crossing, 100 feet north of residence of A. A. Sergeant, east side of second-class road to south, south side of road at intersection, at base of 3.5-foot white-oak tree, in top of large flat rock; aluminum tablet stamped "1879"	1, 878. 215

From Blackey station northeast along highways to Colson, thence west to mouth of Troublesome Creek.

Blackey station, 0.9 mile northeast of, 300 feet southwest of mouth of Branson's Branch, at north end of foot log to H. B. Branson's residence, on south side of road, on top of large rock; chiseled square marked "1001.9" ..	1, 001. 60
Blackey station, 1.9 miles northeast of, at mouth of Candills Branch, north side of road, east side of branch, in rock ledge; chiseled square marked "1013.0"	1, 012. 66

Blackey station, 3.4 miles northeast of, 300 feet northeast of mouth of Perkins Branch, trail to south, on north bank of Rockhouse Creek, south side of road, 40 feet east of small drain from north, in root on road side of 2-foot walnut tree; copper nail marked "1040.9".....	Feet. 1, 040. 58
Jeremiah, 0.7 mile southwest of, 0.6 mile northwest of mouth of Spring Branch, on north side of Rockhouse Creek, 40 feet north of road, 200 feet south of residence of Orbin Stergill, 0.2 mile east of James T. Smith's residence, store, and mill dam, on east bank of small branch from north, in rock ledge; aluminum tablet stamped "1062".....	1, 061. 355
Jeremiah, 0.2 mile south of, at mouth of Dotty Branch, 50 feet south of branch from west, in front of Grant Isom's residence, west bank of Rockhouse Creek, in root on west side of west tree (forked sycamore tree, one trunk 18 and the other 15 inches in diameter); copper nail marked "1058.04".....	1, 057. 74
Jeremiah, 0.8 mile northeast of, 100 feet north of where road crosses Blair's Branch, on west side of road, in top of knot on road side of 3-foot ash tree, 2 feet above ground; copper nail marked "1074.8".....	1, 074. 53
Isom, 0.7 mile southwest of, 200 feet west of second-class road to north, at mouth of Garner Branch, at mill and dam, northeast corner of mill, top of north end of sill of mill building, south side of road; copper nail marked "1086.4".....	1, 086. 11
Isom, 0.2 mile east of, 375 feet east of mouth of Little Colby Creek, 40 feet north of road forks, on east side of and 3 feet above road, in rock ledge; aluminum tablet stamped "1107".....	1, 106. 839
Isom, 1.1 miles northeast of, on north bank of Rockhouse Creek, 40 feet northwest of ford of third-class road to southeast, 180 feet east of Henry Comb's residence, on south side of road, in root on road side of 2-foot birch tree; copper nail marked "1114.2".....	1, 113. 92
Isom, 2 miles northeast of, on north bank of Rockhouse Creek, 125 feet east of mouth of Daniel Branch, south side of road, in root of 15-inch sycamore tree the middle one of three; copper nail marked "1125.4".....	1, 125. 07
Colson, 1.8 miles southwest of, at mouth of Millstone Branch, north bank of Rockhouse Creek, west side of branch, south side of road, in projecting root on road side of 15-inch birch tree; copper nail marked "1135.5".....	1, 135. 21
Colson, 0.9 mile southwest of, at mouth of Low Gap Branch, on south side of Rockhouse Creek, west side of branch, at fence corner, in root on north side of 1-foot sycamore tree; two 8-penny nails marked "1142.1".....	1, 141. 78
Colson, at mouth of Camp Branch, in center of road forks, on top of rock; chiseled square marked "1151.2".....	1, 150. 87
Colson, at mouth of Camp Branch, 500 feet east of road forks, 540 feet west of post office, 135 feet east of Cal Crawford's residence, 50 feet east of small drain from north, 20 feet northeast of 2-foot elm tree, north side of road and 7 feet above road, in rock ledge; aluminum tablet stamped "1172".....	1, 172. 165
Colson, 1 mile north of, south side of mouth of Trace Branch, on west side of Rockhouse Creek, east side of wagon road, in root on road side of 2.5-foot elm tree; 20-penny spike marked "1152.04".....	1, 151. 74
Colson, 1 mile north by 1.6 miles northwest along Trace Branch, at east end of bend in road to east, on hillside about 400 feet west of house in hollow to east, on west side of road, north side of drain, at foot of 5-inch red-haws tree, in top of small stump; 20-penny spike marked "1380.1".....	1, 379. 78

Bath, 0.3 mile southeast of, forks of Little Carr (Burgey) Creek at its head, at foot of north side of gap, 350 feet west of C. B. Logan's residence, 85 feet east of intersection of creeks, on south side of road, inside of fence line, in root on east side of 2-foot hickory tree; two 20-penny spikes driven in, marked "1298.5"	Feet. 1, 298. 20
Bath, 375 feet east of post office, 200 feet west of William Collier's residence, 50 feet northwest of 3.5-foot oak tree, 20 feet above bed of Little Carr Creek on north side, in sandstone ledge; aluminum tablet stamped "1281" ...	1, 280. 929
Bath, 0.6 mile northwest of, on north bank of Little Carr (Burgey) Creek, 50 feet southeast of schoolhouse, 50 feet west of southeast corner of yard, in root on north side of 5-inch sycamore tree; copper nail marked "1198.6"	1, 198. 33
Bath, 1.7 miles west of, 190 feet north of mouth of Big Double Branch, south side of road, west bank of Little Carr Creek, in front of small log house, in root on north side of 8-inch tree; copper nail marked "1118.8" ..	1, 118. 54
Bath, 2.4 miles west of, at mouth of Wolfpen Branch, on north side of Little Carr Creek, south side of and 10 feet under road, 300 feet east of bend in creek to north, opposite mouth of Wolfpen Branch, on top of rock in bank of creek; chiseled square marked "1075.1"	1, 074. 85
Bath, 3 miles west of, bend in road to west at small branch from northeast, 60 feet north of branch crossing, 20 feet east of center of road, opposite house standing on west side of road, in trunk of west tree of row of four apple-trees inside of fence line, 1 foot above ground; copper nail marked "1086.6"	1, 086. 32
Bath, 4.1 miles west of, at mouth of Little Carr (Burgey) Creek on west side of Carr Fork, at center of road forks, 30 feet north of northeast corner of schoolhouse yard, on top of rock; chiseled square marked "1027.2"	1, 026. 95
Bath, 4.1 miles west of, 40 feet northwest of northwest corner of schoolhouse, 100 feet southwest of road forks, 150 feet west of Carr Fork, on north side of road, in root on south side of 2-foot walnut tree; copper nail marked "1034.7"	1, 034. 60
Pine Top, 4.3 miles southwest of, 635 feet east of mouth of bed of Troublesome Creek, north bank of Carr Fork, south side of road, 20 feet from water's edge, in top of large rock; aluminum tablet stamped "1034"	1, 034. 444

Buckhorn, Lee City, and Troublesome quadrangles.

BREATHITT, KNOTT, AND PERRY COUNTIES.

The elevations in the following list were determined by primary levels extended from the precise level line, Lexington to Jackson.

The leveling was done in 1911 by S. R. Archer.

BUCKHORN QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 83° 15'-83° 30'.]

From point 6.8 miles south of Jackson southeast along highway up Troublesome Creek to mouth of Fugitt Branch.

Quicksand, 4.5 miles southwest of, 125 feet east of C. Thomas's house, on south side of road near barn; chiseled square on top of stone, marked "768.3"	Feet. 768. 27
Lost Creek, 1.7 miles northwest of, road forks at mouth of Troublesome Creek, south side of road, 20 feet east of Watt's store, at foot of fence; chiseled square on top of stone, marked "747.8"	747. 80

Lost Creek, 0.5 mile northwest of, at residence of Sweet Landrum, south side of road, at northwest corner of small storehouse at roadside; chiseled square on top of stone, marked "780.9"	Feet. 780. 93
Lost Creek, in top of east abutment at north end of steel highway bridge over Troublesome Creek; aluminum tablet stamped "751"	750. 611
Clayhole, 0.45 mile southwest of, 75 feet south of road fork at T road south-east, northwest of mouth of Rileys Branch; copper nail in north root of 2-foot oak tree, marked "945.4"	945. 46
Clayhole, on west bank of Rileys Branch just south of road forks, in front of post office, at water's edge of creek; chiseled square on top of rock, marked "823.8"	823. 85
Clayhole, 0.7 mile southeast of, road forks at mouth of Clayhole Branch, on north bank of Troublesome Creek, on west side of bend in main road to east; copper nail in root on north side of 30-inch sycamore tree, marked "764.7"	764. 71
Clayhole, 1.4 miles southeast of, at mouth of Russell Creek, 200 feet west of creek, on north side of road, at private road north to house, in rock cliff; aluminum tablet stamped "763"	763. 205
Lost Creek, 5.2 miles east of, at mouth of Harveys Branch, in bed of stream in front of Nathan Miller's residence, 75 feet north of road forks; chiseled square on top of huge rock, marked "770.9"	770. 92
Lost Creek, 6.1 miles east of, opposite mouth of Caney Creek, north side of road at road forks; chiseled square on top of rock outcrop, marked "766.3"	766. 38
Lost Creek, 6.7 miles southeast of, along Troublesome Creek, at bend in creek to southeast. 0.7 mile above Caney Creek, at schoolhouse, north side of road, west side of small stream; chiseled square on top of large sand-stone rock, marked "776.0"	776. 10

From Lost Creek south along highway up Lost Creek to point 2.3 miles southeast of Ned post office.

Lost Creek, 0.9 mile south of, stream crossing and second-class road to west, at residence of Lee Deaton, at southeast corner of small store just south of house on north bank of stream; chiseled square on top of rock, marked "742.1"	742. 09
Lost Creek, 2.8 miles south of, in front of M. C. Grigsby's residence, on east bank of Lost Creek, on west side of public road; copper nail in root of second beech above ford, marked "760.0"	759. 99
Lost Creek, 3.4 miles southeast of, 160 feet north of mouth of Leatherwood Creek, on west bank of Lost Creek, in foundation stone at southeast corner of Tom Watt's store; aluminum tablet stamped "769"	768. 929
Lost Creek, 4.8 miles southeast of, 1.4 miles southeast of mouth of Leatherwood Creek, 175 feet west of C. J. Noble's residence, north side of road at southeast corner of private cemetery, at foot of fence; chiseled square on top of stone corner post, marked "821.6"	821. 57
Ned, 1.1 miles northwest of, north side of road at bend to east, at residence of Z. Neace, 50 feet east of top of rise; chiseled square on top of stone, marked "888.6"	888. 63
Ned, 0.4 mile northwest of, at road forks, at residence of Wash Noble, in northeast corner of stream confluence, at foot of stone cliff; copper nail in root on north side of 3½-foot sycamore tree, marked "798.4"	798. 39
Ned, in stone support to porch at southwest corner of residence of Jerry Combs (postmaster), 150 feet north of mouth of Cockrell Fork, on east side of road; aluminum tablet stamped "808"	808. 469

Ned, 1.2 miles south of, about 60 feet below mouth of Tenmile Creek, on east bank of Lost Creek, at water's edge, at foot of rock ledge; chiseled square on top of flat rock, marked "816.0"	Feet. 815. 98
Ned, 2 miles southeast of, 0.8 mile southeast of mouth of Tenmile Creek, 150 feet west of bend in road to southeast and 250 feet west of mouth of small stream from north, on north bank of Lost Creek, on south side of road; chiseled square on top of a large rock, marked "831.3"	831. 28
Ned, 2.8 miles southeast of, 1.6 miles southeast of county line between Breathitt and Perry Counties, at bend in road and creek to east, about 0.2 mile west of Elias Mullen's milldam, 75 feet east of mouth of small stream from south, in front of B. W. Watt's residence, south side of Lost Creek, in face of rock ledge; aluminum tablet stamped "841"	841. 245
From mouth of First Creek along highway west to Shoal, thence north down Middle Fork of Kentucky River to mouth of Punccheon Camp Creek.	
First Creek, opposite mouth of, on west bank of North Fork of Kentucky River, on east side of public road; copper nail in root on road side of 42-inch sycamore stump, marked "822.2"	822. 17
Yerkes, 4 miles southeast of, 0.6 mile northwest of mouth of First Creek, at bend in river to north, opposite tunnel of Louisville & Nashville R. R., in front of James Stacy's residence and general store, on west bank of river, on east side of road, in face of large rock on roadside; aluminum tablet stamped "841"	841. 033
Yerkes, 2.9 miles southeast of, bend in river to southwest, on west bank of river, 100 feet above ford opposite mouth of Second Creek, on east side of road; chiseled square on top of sandstone rock set vertical, marked "821.7"	821. 63
Yerkes, 2 miles east of, 1.1 miles above mouth of Willard Creek, 0.3 mile east of bend in river to southwest, on south bank of river, in front of Elhannon Fugitt's residence, north side of Louisville & Nashville R. R.; chiseled square on top of large rock, marked "826.4"	826. 31
Yerkes, 0.8 mile east of, on North Fork of Kentucky River, at old mouth of Willard Creek on east bank of river at bend to west, 150 feet north of Grant Campbell's store, 400 feet south of road to southeast; copper nail in root on east side of 30-inch forked elm tree, marked "805.8"	805. 71
Yerkes, North Fork of Kentucky River, at Louisville & Nashville R. R. stone culvert, at mouth of Forked Mouth Creek, 300 feet north of A. D. Campbell & Sons' store, in bridge seat at northeast corner of bridge; aluminum tablet, stamped "803"	802. 609
Yerkes, 0.6 mile west of, on Forked Mouth Creek, at forks of stream just above schoolhouse, at foot of hill to seathwest, on west side of intersection of two forks; chiseled square on top of stone, marked "857.9"	857. 83
Yerkes, 1 mile southwest of, on South Fork of Forked Mouth Creek, 0.4 mile southwest of schoolhouse, at mouth of stream from southeast, west side of road at bend to southwest; chiseled square on top of stone, marked "991.6"	991. 57
Yerkes, 1.3 miles southwest of, on Forked Mouth Creek, at residence of James Olliver, at mouth of small stream from west, at junction of creeks; chiseled square on top of stone, marked "1023.3"	1, 023. 27
Yerkes, 1.9 miles southwest of, at forks at head of southwest fork of Forked Mouth Creek, at foot of hill and bend in road to southwest, 200 feet north of Ira Baker's residence, 50 feet south of fence corner on west side of creek, 40 feet south of bend in road; copper nail in root of 12-inch poplar tree, marked "1111.6"	1, 111. 60

Yerkes, 2.4 miles southwest of, at top of Iva Gap, between heads of Forked Mouth and Trace Fork creeks, at county line between Perry and Leslie counties, north side of road; copper nail in root on south side of small blazed oak tree, marked "1335.2"	Feet. 1,335.16
Confluence, about 1 mile northeast of, 1.5 miles up Trace fork, at fork of South Fork near its head, on south side of trail at forks of trail; copper nail in root on north side of 30-inch beech tree, marked "1054.6"	1,054.60
Confluence, about 1 mile northeast of, at road forks, 0.9 mile up Trace Fork, north bank of South Fork at forks of creek, in front of house; copper nail in top of sycamore stump, marked "843.25"	843.22
Confluence, about 1.2 miles northeast of, on Middle Fork of Kentucky River, 450 feet south of mouth of Trace Fork, 0.25 miles north of mouth of Grassy Creek, on west bank of Middle Fork at water's edge, in top of large sandstone rock; aluminum tablet, stamped "786"	786.110
Confluence, 2.25 miles northeast of, opposite mouth of Poundmill Branch, at bend in river to west, on east side of road, on top of rise 40 feet above river on west bank; copper nail in root on road side of 30-inch beech tree, marked "807.5"	807.48
Confluence, 2.5 miles north of, 0.25 mile west of Poundmill Branch, at mouth of small stream from north, at ford, on west bank of river; copper nail in root on north side of sycamore stump, marked "772.4"	772.33
Confluence, 3.7 miles northwest of, opposite George Begley's residence, 20 feet north of fence line between Jasper Langdon's and Polly Mosier's lands, 70 feet east of east bank of river, 0.24 mile south of bend in river to west; copper nail in root on east side of small apple tree, marked "796.3"	796.30
Shoal, 6.6 miles northeast of, at road forks, 160 feet east of mouth of Langdons Branch, in front of Jasper Langdon's residence, on north bank of river, at road to northwest; copper nail in sycamore stump, marked "768.4"	768.38
Shoal, 6.25 miles northeast of, on west bank of Middle Fork of Kentucky River, 0.4 mile south of mouth of Langdons Branch, in west face of large sandstone rock; aluminum tablet stamped "771"	771.194
Shoal, 4.9 miles northeast of, just above Opossum Bend, on south bank of Middle Fork of Kentucky River, at mouth of Spring Branch, 280 feet east of Simon Langdon's residence; copper nail in root on river side of 3-foot forked sycamore tree, marked "760.8"	760.76
Shoal, 3.7 miles northeast of, at north end of Opossum Bend, on south bank of river, 75 feet below mouth of Coal Branch from north, 15 feet above water; copper nail in top of sycamore stump, marked "770.2"	770.20
Shoal, 2.8 miles northeast of, at trail to southeast, at mouth of small stream, 600 feet north of bend in river to west, just north of old house, on east bank of river, at water's edge; copper nail in root on east side of 42-inch sycamore tree, marked "757.4"	757.44
Shoal, 1.9 miles northeast of, on north bank of river at bend to south, 100 feet west of mouth of small stream from north, 160 feet east of residence of W. E. Bowling, at ford; copper nail in top of sycamore stump, marked "761.3"	761.28
Shoal, 1 mile northeast of, in northwest corner of road forks, 100 feet west of stream from north; copper nail in root on south side of 8-inch locust tree, marked "784.9"	784.93
Shoal, about 0.25 mile north of, opposite mouth of Elkhorn Creek, on north bank of Middle Fork of Kentucky River, on south side of public road, at water's edge, in top of large rock; aluminum tablet stamped "757"	756.790

Shoal, 1.3 miles northwest of, on north bank of Middle Fork of Kentucky River, at bend to southwest, 150 feet northwest of Garrett Barnes's residence, south side of road, inside of fence; copper nail in root on north side of beech stump, marked "761.3".....	Feet. 761. 32
Shoal, 2.2 miles northwest of, 150 feet north of mouth of Turkey Branch, on east side of river, north side of small stream from east, on east side of road; chiseled square on rock, marked "766.6".....	766. 64
Shoal, 2.6 miles north of, on east side of river opposite mouth of Leatherwood Creek, in front of Nelson Barger's residence, on east side of road at forks; chiseled square on top of rock, marked "778.4".....	778. 40
Shoal, 3.6 miles north of, about 400 feet south of John Deaton's store, at mill, 70 feet west of bend in road to north, on north bank of Langdons Branch, at forks of road; copper nail in root of small tree, marked "747.5".	747. 55
Buckhorn, 3.7 miles southeast of, 360 feet north of Jessie Bowling's residence, 60 feet north of barn, on east side of road, about 0.3 mile north of bend in river to north, in side of large rock; aluminum tablet stamped "792".....	792. 321
Buckhorn, 2.6 miles southeast of, on east bank of river at mouth of Meetinghouse Branch, on west side of road at road forks; copper nail in root of 2-foot beech tree, marked "757.3".....	757. 29
Buckhorn, 2.1 miles southeast of, at mouth of Guys Creek, 250 feet east of store, on north side of road at forks; chiseled square on top of stone, marked "753.6".....	753. 65
Buckhorn, 0.9 mile southeast of, 140 feet east of Alfred Riley's residence, at bend in river to west, 25 feet southeast of small stream from east, on north side of road; chiseled square on top of stone, marked "757.6".....	757. 60
Buckhorn, about 0.5 mile east of center of town, at mouth of Squabble Creek, 250 feet west of Middle Fork of Kentucky River at ford, on south side of road, in stone foundation at northeast corner of Rebecca Riley's house; aluminum tablet stamped "748".....	748. 185
Buckhorn, about 2.2 miles northeast of, 1,400 feet east of house on south side of river, just below bend to north; copper nail in root of 30-inch beech tree, marked "741.7".....	741. 70
Crockettsville, 3.1 miles southeast of, on east side of river, just south of residence owned by John Amy, on east side of road, north side of Buck Branch at corner of garden fence; copper nail in top of stake, marked "730.4".....	730. 40
Crockettsville, 2.1 miles southeast of, on east side of river, at northeast corner of bridge over Johnsons Lick Branch, about 0.25 mile below Thomas Branch; copper nail in floor.....	724. 09
Crockettsville, 1.2 miles southeast of, at crossing of stream from east, just north of county line, at northwest corner of Robert Amy's barn; chiseled square on top of rock in bed of creek, marked "732.4".....	732. 40
Crockettsville, 400 feet north of mouth of Longs Creek, on Middle Fork of Kentucky River, 150 feet north of mill, on east bank of river, opposite sand bar, in top of rock ledge 4 feet above water level; aluminum tablet stamped "710".....	709. 889
Crockettsville, 0.7 mile north of, on east side of road, at second class road to west at schoolhouse, on west bank of river and on north side of mouth of creek; copper nail in root on road side of 2-foot elm tree, marked "716.0".	716. 05
Crockettsville, 2.4 miles north of, at bend in river to northeast, in front of Louis Noble's residence, 0.7 mile southwest of mouth of Lick Branch, at gate to yard on east side of road; chiseled square on rock, marked "724.5".	724. 52

Crockettsville, 3.1 miles northwest of, opposite mouth of Lick Branch, east side of road at mill, on west bank of river; copper nail in root of 3-foot tree, first sycamore tree south of ford, marked "708.6"	Feet. 708. 68
Canoe, 3.2 miles south of, 650 feet west of mouth of Turner Branch, on north bank of river, on north side of road, 900 feet west of Joe Deaton's residence, in top of rock; aluminum tablet stamped "720"	719. 616
Canoe, 2.1 miles southwest of, on west bank of river at bend to north, on north bank of Elsom Creek at mouth; copper nail in root of 30-inch elm tree, with roots bare, marked "701.3"	701. 37
Canoe, 1.6 miles southwest of, 75 feet north of mouth of Sebastian Branch, on west bank of river, east side of road; copper nail in root on road side of 30-inch beech tree, marked "702.9"	703. 00
Canoe, on west bank of Middle Fork of Kentucky River, opposite mouth of Canoe Fork, 50 feet south of ford, on east side of road; copper nail in root on road side of 30-inch forked sycamore tree, marked "702.7"	702. 76
Canoe, 1.2 miles northwest of, on east bank of river, opposite Hollands Branch, 250 feet south of house situated on west bank of river and owned by Kent Sebastian, on west side of public road, on south side of creek; copper nail in root on road side of 36-inch maple tree, marked "700.3" ..	700. 35
Canoe, 2.7 miles northwest of, on north bank of Middle Fork of Kentucky River, at bend to west, 100 feet east of mouth of Mill Creek, on south side of public road, in top of sandstone ledge; aluminum tablet stamped "694" ..	693. 888
Canoe, 4.6 miles northwest of, 120 feet north of mouth of Old Buck Creek, on east bank of river on west side of public road, in front of store; copper nail in root on east side of 30-inch maple tree with roots bare, marked "691.7"	691. 78
Juan, 0.8 mile north of, on north bank 800 feet west of bend to west in Middle Fork of Kentucky River, 900 feet west of stream crossing, on north side of road, in road face of large sandstone rock; aluminum tablet stamped "704"	703. 914
Juan, 1.4 miles northwest of, just north of bridge over Middle Fork of Kentucky River, at mouth of Turkey Creek, in southeast corner of road forks, copper nail in west root of 24-inch elm tree, marked "712.2"	712. 26

LEE CITY QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 83° 15'-83° 30'.]

From mouth of Puncheon Camp Creek north along highway to Oakdale.

Juan, 2.4 miles northwest of, on east side of Middle Fork of Kentucky River, at mouth of Puncheon Camp Creek, 0.6 mile west of Highland College, at northeast corner of road forks; copper nail in root of 30-inch sycamore stump, marked "677.5"	677. 58
Oakdale, 4.1 miles southwest of, on Puncheon Camp Creek, 0.7 mile east of Middle Fork of Kentucky River, southeast corner of Highland College dormitory, in stone foundation; aluminum tablet stamped "711"	710. 670
Oakdale, 3.7 miles south of, 120 feet north of forks of Puncheon Camp Creek, 0.3 mile northeast of Highland College, at residence of B. H. Herald; copper nail in root of 30-inch elm tree, marked "716.4"	716. 44
Oakdale, 2.5 miles southeast of, on west side of road, at foot of south side of divide between upper Twin Creek and Puncheon Camp Creek, 100 feet north of house on west side of forks of stream, in root of old stump; copper nail marked "897.9"	897. 95
Oakdale, 2 miles southeast of, on top of divide between Twin and Puncheon Camp creeks, on east side of road, 10 feet north of rail fence; chiseled square on top of small rock, marked "1018.3"	1, 018. 40

Oakdale, 1.2 miles southeast of, at head of hollow, 250 feet north of bend in road to southeast, 400 feet north of forks of creek, on west bank of West Fork of Twin Creek just above mouth of stream from west; copper nail in root on south side of 24-inch sycamore tree, marked "847.6".....	Feet. 847. 65
Oakdale, 0.4 mile southeast of, at forks of Twin Creek, in front of Elias Spencer's residence, on west side of road at junction of creeks; copper nail in root on west side of sycamore tree, marked "779.4".....	779. 50
Oakdale, in front of Lexington & Eastern Ry. station; top of rail.....	791. 4
Athol, 2.9 miles southeast of, southwest corner of stone abutment of small bridge; aluminum tablet stamped "773" (precise level B. M.).....	773. 404

From Jackson south along highway 6.8 miles.

Jackson, in top of west end of stone wall at south side of courthouse yard; aluminum tablet stamped "791".....	791. 075
Jackson, 1 mile southeast of, on west side of public road, east bank of North Fork of Kentucky River; copper nail in root (under windlass) of 30-inch elm tree, marked "729.6".....	729. 62
Jackson, 2.3 miles southeast of, at small store on west side of public road in front of distillery, plank platform to store; copper nail in top, at north-east corner, marked "751.0".....	750. 99
Quicksand, on east side of highway, at east end of steel railroad bridge over North Fork of Kentucky River, in west face of north end of concrete pier; aluminum tablet stamped "732".....	731. 587
Quicksand, 1.3 miles southwest of, opposite south end of railroad tunnel, just east of bend in road to south, on south side of road; chiseled square on top of sandstone rock, marked "758.9".....	758. 89
Quicksand, 2 miles southwest of, about 50 feet north of Bud Turner's store, on south side of small ravine, on east side of road; chiseled square on top of stone ledge, marked "743.5".....	743. 52
Quicksand, 3.5 miles southwest of, 3.6 miles northwest of Lost Creek, on north side of public highway, about 0.25 mile east of bend in road to southeast, at northwest corner of main part of residence of Sylvester Tharp, in west face of stone foundation pillar; aluminum tablet stamped "747".....	747. 379

TROUBLESOME QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 83°-83° 15'.]

From point 2.8 miles southeast of Ned post office south to First Creek.

Ned, 3.9 miles southeast of, at mouth of small stream from northeast, just east of bend in Lost Creek to south, 0.2 mile below milldam, at foot of point of hill; copper nail in root on north side of small sycamore tree, marked "859.2".....	859. 15
Ned, 4.7 miles southeast of, just south of Mason Miller's house, 0.1 mile north of schoolhouse, on east side of road and on south side of Lost Creek; chiseled square on top of stone, marked "882.2".....	882. 13
Ned, 5.4 miles southeast of, just below John Campbell's residence, on east bank of Lost Creek, on west side of road at mouth of Cracker Creek; copper nail in root on east side of walnut tree, marked "899.8".....	899. 80
Ned, 6.6 miles southeast of, 0.2 mile west of mouth of Sixteenmile Creek, 200 feet west of Wm. Edward's residence, on north side of highway, in sandstone rock; aluminum tablet stamped "926".....	926. 092
Ned, 6.7 miles southeast of, at mouth of Sixteenmile Creek, on north bank of Lost Creek; copper nail in root on north side of 24-inch sycamore tree, marked "926.5".....	926. 46

Ned, 8.1 miles southeast of, 1.3 miles south up Sixteenmile Creek, at residence of Zacharia Fugitts, about 75 feet north of road to east, 100 feet below mouth of small stream from east, on north bank at bend in road and creek to south, at water's edge; chiseled square on rock, marked "995.7"	Feet. 995.70
Ned, 8.8 miles southeast of, 2.1 miles south up Sixteenmile Creek, at mouth of Trace Fork, at schoolhouse, T road to southwest leading to head of Second Creek, on south side of Sixteenmile Creek and on east side of Trace Fork, at bend in creek to east; chiseled square on top of sandstone rock, marked "1028.6"	1,028.50
Ned, 9.2 miles southeast of, 2.5 miles up Sixteenmile Creek, 100 feet north of residence of Wilson Campbell, at forks of trail to east leading to Lost Creek, on north side of road, about 125 feet west of stream crossing and bend in road to south, in face of rock ledge; aluminum tablet stamped "1082"	1,082.034
Ned, 9.8 miles southeast of, 3 miles up Sixteenmile Creek, on north side of divide between Sixteenmile Creek and First Creek, in front of residence situated on west side of creek between forks of creek, 40 feet northeast from northwest corner of picket fence on east side of road; chiseled square on top of sandstone rock, marked "1086.2"	1,086.16
Ned, 10.5 miles southeast of, on top of divide between Sixteenmile Creek and First Creek, on south side of road, 50 feet east of 3-foot oak tree; chiseled square on top of sandstone rock, marked "1460.7"	1,460.63
Hazard, 6 miles northwest of, at head of First Creek, 5.6 miles above mouth, south side of divide between Sixteenmile Creek and First Creek, in front of Wm. Napier's residence, 130 feet north of First Creek, on hillside; chiseled square on top of large rock, marked "1056.7"	1,056.68
Hazard, 6.1 miles northwest of, 4.1 miles above mouth of First Creek, at forks of First Creek at north foot of Hominy Mill Hill, in front of James Walker's residence, southeast corner of road forks and stream forks, 18 feet above level of creek, in face of sandstone ledge; aluminum tablet stamped "1026"	1,026.322
Hazard, 6 miles northwest of, on Hazard-Grapevine road where it crosses First Creek, 2.4 miles above mouth, on south side of creek, north side of First Creek road; chiseled square on top of rock, marked "921.1"	921.03
First Creek, in bed of, 1 mile east up from mouth, 150 feet north of ford in front of John Stacy's residence, 160 feet north of mouth of small creek from southeast; chiseled square on top of large rock, marked "880.7" ..	880.59
From mouth of First Creek along highway east up North Fork of Kentucky River 5.7 miles, thence north over Hominy Hill to First Creek.	
Hazard, 9.6 miles northwest of, on west bank of North Fork of Kentucky River, opposite mouth of First Creek, on east side of public road; copper nail in root on road side of 42-inch sycamore stump, marked "822.17" ...	822.17
Hazard, 8.7 miles northwest of, on west bank of North Fork of Kentucky River, on north bank of Big Creek, in front of John Field's store; copper nail in root on road side of 48-inch sycamore tree, marked "825.5"	825.48
Hazard, 7.6 miles northwest of, on east bank of North Fork of Kentucky River, 100 feet north of Judge Crawford's residence, 175 feet northwest of stream from north, on west side of road; copper nail in root on road side of 42-inch elm tree, marked "834.3"	834.29
Hazard, 6.7 miles northwest of, on North Fork of Kentucky River, at foot of hill just west of Abijah Combs's residence, on west side of road at stream crossing; chiseled square on rock, marked "853.7"	853.66

Hazard, 5.7 miles northwest of, on North Fork of Kentucky River, 0.3 mile north of bend in road to north, 0.2 mile north of railroad tunnel, on south bank of stream crossing south of Robert Combs's residence, on west side of road; copper nail in root on northeast side of 18-inch ash tree, marked "835.7"	Feet. 835. 65
Hazard, 4.6 miles northwest of, along North Fork of Kentucky River, T road to northwest at schoolhouse, at bend in river to south, 150 feet north of small stream from northwest, on west side of road; copper nail in root on road side of 30-inch chestnut tree, marked "843.3"	843. 23
Hazard, 3.9 miles north of, on north bank of North Fork of Kentucky River, at T road to north known as Hominy Mill Hill road, at northeast corner of wooden bridge; nail in root on east side of sycamore tree, marked "839.6"	839. 54
Hazard, 5.4 miles north of, on east side of Hominy Mill Hill road, at top of divide, between First Creek and North Fork of Kentucky River; copper nail in root on road side of 30-inch oak tree, marked "1382.05"	1, 391. 99
From point 3.9 miles north of Hazard south along road up North Fork of Kentucky River to Hazard. (Run twice.)	
Hazard, 3.2 miles north of, at mouth of Lots Creek, 160 feet north of road forks, 250 feet north of steel bridge over Lots Creek, on east side of road to north, 5 feet above level of road, in rock ledge; aluminum tablet stamped "848"	847. 816
Hazard, 1.3 miles north of, just east of bend in river to east, 360 feet west of drain, 250 feet west of blacksmith shop, on north side of road, on south side of river bank; copper nail in root of 24-inch sycamore tree, marked "861.2"	861. 12
Hazard, at First National Bank Building, on Main Street, in water table 0.7 foot above sidewalk, 12 feet from northeast corner, 5 feet north of entrance to bank; aluminum tablet stamped "873"	873. 280
From mouth of Fugitt Branch southeast along highway to Vest post office, thence south to Hindman, thence southwest to Elie, thence west to North Fork of Kentucky River.	
Noble (mouth of Buckhorn Creek), 2.7 miles northwest of, at bend in Troublesome Creek and road to southwest, 0.2 mile below mouth of Fugitt Branch, 175 feet west of Tolbert Campbell's residence, on north bank of Troublesome Creek, on south side of road, between two small streams from north, in top of large rock; aluminum tablet stamped "786"	786. 544
Noble, 1.8 miles northwest of, at loop in Troublesome Creek, on north side of road, opposite house; chiseled square on top of rock outcrop, marked "867.1"	867. 16
Noble, 105 feet east of Allen and Hay's store and post office, in front of blacksmith shop and opposite barn, on Troublesome Creek at mouth of Buckhorn Creek, at small hollow from north, on north side of road, on face of rock cliff; aluminum tablet stamped "792"	792. 437
Noble, 1.3 miles east of, at stream crossing from northwest, at bend in Buckhorn Creek to south, on north side of road, in bed of stream; chiseled square on top of large rock, marked "807.0"	807. 08
Noble, 1.8 miles northeast of, 300 feet north of Buckhorn Creek, on east bank of Bear Branch, at road crossing, on north side of road; chiseled square on top of large rock, marked "802.6"	802. 73
Noble, 2.4 miles east of, along Buckhorn Creek, at northeast corner of mouth of Long Fork, opposite A. Hay's residence; chiseled square on top of large rock, marked "803.05"	803. 15

	Feet.
Noble, 3.2 miles east of, opposite mouth of small stream from north, on south bank of Buckhorn Creek, opposite house (on north side); chiseled square on top of flat rock, marked "808.2".....	808.31
Noble, 3.8 miles east of, 100 feet north of Buckhorn Creek, 150 feet west of Lewis Branch, on north side of public road; aluminum tablet set horizontally in rock cliff, stamped "832".....	832.432
Noble, 4.4 miles east of, along Buckhorn Creek, at northwest corner of mouth of Clemens Fork, in front of Henry Noble's residence; chiseled square on top of small stone, marked "824.8".....	824.93
Noble, 5.4 miles east of, 1.5 miles southwest of county line between Breathitt and Knott counties, at south end of loop in Buckhorn Creek, 600 feet south of mouth of stream from southeast, 100 feet west of point in creek; copper nail in root on east side of 8-inch sycamore tree, marked "840.7" ..	840.80
Noble, 6.9 miles east of, at county line between Breathitt and Knott counties, 200 feet east of mouth of Coles Creek, at point of hill on east side of road and Buckhorn Creek, in rock ledge; aluminum tablet stamped "866".....	866.364
Noble, 7.9 miles east of, along Buckhorn Creek, 1.1 miles southeast of county line between Breathitt and Knott counties, at mouth of small stream from north, 0.4 mile below mouth of Dans Fork, beech and ironwood trees about 4 inches in diameter on west side of creek; copper nail in root of a beech tree, marked "883.9".....	884.07.
Noble, 9 miles east of, 2.2 miles above county line between Breathitt and Knott counties, on west side of Buckhorn Creek, at bend to south, opposite mouth of Jakes Fork; copper nail in root of old stump, marked "902.9".....	903.05
Noble, 10 miles east of, 0.6 mile north of mouth of Hurricane Fork, on west side of Buckhorn Creek, in bed of stream, 40 feet south of mouth of creek from west; chiseled square on top of flat rock, marked "923.8".....	923.97
Noble, 10.7 miles southeast of, 0.07 mile above mouth of Hurricane Creek, on west bank of Buckhorn Creek, on south side of road at ford, in face of north side of large rock; aluminum tablet stamped "944".....	943.870
Noble, 11.3 miles southeast of, 0.8 mile east of Hurricane Creek, in bed of Buckhorn Creek, at loop in creek, at upper crossing, on south side of road, at foot of flood gate; chiseled square on top of rock, marked "956.5" ..	956.60
Noble, 12.1 miles southeast of, at forks of road to northeast, on south side of stream at forks, in front of schoolhouse; copper nail in root of small sycamore tree, marked "974.5".....	974.64
Noble, 13.3 miles southeast of, near head of Buckhorn Creek, at point where public road leads southeast over hill to Balls Fork of Troublesome Creek, in road on west bank of small stream from southeast; copper nail in root on south side of small sycamore tree, marked "1098.9".....	1,099.10
Vest, 3.8 miles west of, on top of divide between Buckhorn Creek and Balls Fork of Troublesome Creek, on west side of road; chiseled square on top of rock, marked "1385.3".....	1,385.42
Vest, 3 miles west of, along Balls Fork of Troublesome Creek, at road forks, 200 feet north of mouth of small creek, 75 feet north of B. Dobson's residence, opposite barn, at fence line on west side of road leading to Buckhorn Creek, in road face of large rock; aluminum tablet stamped "1021".....	1,021.115
Vest, 2.3 miles west of, at T road southeast, at southeast corner of mouth of Laurel Creek on Balls Fork of Troublesome Creek, at water's edge; chiseled square on top of large rock, marked "1012.1".....	1,012.26
Vest, 1.6 miles west of, on north side of Balls Fork at mouth of Buck Lick Creek, in root on south side of small tree; copper nail, marked "1026.3".....	1,026.45

Vest, 0.7 mile west of, 60 feet west of bend in public road to west, on south side of road, north side of Balls Fork; copper nail in root on road side of large stump, marked "1034.9".....	Feet. 1, 035. 10
Vest, 550 feet north of road forks, at ford in front of store, about 700 feet north of mouth of Trace Fork, on east bank of Balls Fork, on west side of road, in top of large rock; aluminum tablet stamped "1044".....	1, 044. 386
Vest, 1.1 miles southeast of, on west side of Trace Fork, in front of southeast corner of John Hayes's barn, 125 feet north of mouth of stream from west; chiseled square on top of flat rock, marked "1112.4".....	1, 112. 61
Vest, 2.3 miles southeast of, along Trace Fork of Balls Fork, near foot of north side of divide between Trace Fork and Augdon Branch, 450 feet south of foot of hill, about 350 feet south of house, on west side of creek; chiseled square on top of rock 20 feet above stream, marked "1234.2".....	1, 234. 41
Vest, 2.6 miles southeast of, at top of divide between heads of Trace Fork of Balls Fork and Augdon Branch of Troublesome Creek, on west side of road; chiseled square on top of stone, marked "1426.5".....	1, 426. 72
Hindman, 2 miles west by 1.8 miles northeast of, at foot of hill near head of Augdon Branch, at forks of creek, on west side of road, on south side of creek to northwest; chiseled square on top of stone, marked "1119.2".....	1, 119. 45
Hindman, 2 miles west by 1.1 miles northeast of, at trail to east across hill to Hindman, on east side of creek, at northwest corner of fence, in front of house; copper nail in root of willow tree, marked "1068.1".....	1, 068. 34
Hindman, 2 miles west by 0.3 mile north of, opposite mouth of stream from west at trail leading northwest from Augdon Branch to head of Montgomery Branch, on east side of Augdon Branch; copper nail in root on east side of 36-inch beech tree, marked "1016.8".....	1, 017. 05
Hindman, 2 miles west of, along Troublesome Creek, 0.05 mile south of mouth of Augdon Branch, on east side of road, in sandstone cliff face; aluminum tablet stamped "1015".....	1, 015. 709
Hindman, 3.1 miles west of, along Troublesome Creek, at southeast corner at mouth of Big Branch from south; copper nail in east root of spreading sycamore tree, marked "991.23".....	991. 23
Hindman, 3.8 miles west of, 20 feet south of mouth of small creek from east, just back of house on Roberts' farm, on east bank of Troublesome Creek, in root of 8-inch willow tree; copper nail marked "936.7".....	936. 95
Hindman, 4.9 miles west of, along Troublesome Creek, on east side, 160 feet south of mouth of Mill Creek from south, 40 feet south of front of Peter Hay's house, in rock cliff; aluminum tablet stamped "981".....	981. 689
Hindman, 4.9 miles west by 1 mile south of, at mouth of Lower Field hollow, 30 feet south of mouth of small stream from east, on west side of Mill Creek, at foot of rail fence; chiseled square on top of brown sandstone rock, marked "1049.6".....	1, 049. 87
Hindman, 4.9 miles west by 1.8 miles south of, at road forks at forks of Mill Creek, on south side of creek to east, on east side of Mill Creek; chiseled square on top of stone, marked "1122.4".....	1, 122. 66
Hindman, 4.9 miles west by 2.8 miles southwest of, on top of divide between heads of Mill and Clear Creeks, in southwest corner of road forks; copper nail in root on road side of 24-inch blazed oak tree, marked "1630.5".....	1, 630. 73
Hindman, 7.9 miles southwest of, at Stone Gap, on top of divide between heads of Mill, Clear, and Lots creeks, at point where road to Lots Creek leaves divide, on east side of road, in north face of large stone; aluminum tablet stamped "1750".....	1, 750. 746

Elic, 1.7 miles northeast of, at foot of south side of divide between Lots Creek and Mill and Clear creeks, at point where road crosses Lots Creek, on south side of creek, on west side of road; chiseled square on top of large rock, marked "1220.8"	Fect. 1, 221. 02
Elic, 1.3 miles northeast of, at mouth of Elk Lick Fork on Lots Creek; painted square on top of rock, marked "1148.4"	1, 148. 70
Elic, 500 feet north of post office, 550 feet northeast of mouth of Kelleys Fork, on south side of Lots Creek, 80 feet west of bend in creek to north, at water's edge, on top of large rock; aluminum tablet stamped "1063" ..	1, 063. 654
Elic, 0.8 mile southwest of, 600 feet west of bend to west in road, at small stream crossing, opposite house standing on south side of Lots Creek, on north side of road; chiseled square on top of stone, marked "1146.7"	1, 146. 99
Cordia, 0.3 mile east of, along Lots Creek, 30 feet south of forks of road, at Big Fork Creek, on west side of public road, in root of apple tree; copper nail marked "1008.0"	1, 008. 31
Cordia, 1.9 miles northwest of, in front of residence owned by Martin and Benjamin Gerhart, on south side of Lots Creek, at mouth of Clear Fork, in top of large rock; aluminum tablet stamped "960"	960. 641
Cordia, 2.4 miles northwest of, on west side of mouth of Elk Fork, on south side of Lots Creek, 60 feet east of sycamore tree; chiseled square on top of large rock, marked "946.9"	947. 15
Cordia, 3.3 miles northwest of, about 200 feet north of mouth of Sooks Branch from southwest, on west side of Lots Creek, at water's edge, on creek side of large rock; chiseled square, marked "915.3"	915. 62
Grigsby, 260 feet north of mouth of Grigsby Branch, on north bank of Lots Creek at bend to west; chiseled square on top of large rock, marked "898.8"	899. 11
Grigsby, 0.8 mile west of, on north side of Lots Creek, about 0.05 mile west of bend to west, 360 feet west of house, in road face of large rock; aluminum tablet stamped "884"	884. 776
Grigsby, 1.9 miles west of, on south side of Lots Creek, 275 feet east of bend in creek to southwest, 0.2 mile west of Bales Grigsby's residence; chiseled square on top of flat rock, marked "864.4"	864. 73
Grigsby, 3.4 miles west of, on south side of Lots Creek, 1.3 miles east of mouth, 30 feet east of mouth of Trace Fork, at water's edge; copper nail in root of cucumber tree (roots bare), marked "846.0"	846. 28
Hazard, 3.2 miles north of, 160 feet north of road forks, 250 feet north of steel bridge over mouth of Lots Creek, in rock ledge on east side of road to northwest; aluminum tablet stamped "848"	847. 816

Baxter, Middlesboro, and Pineville quadrangles.

BELL AND HARLAN COUNTIES.

The elevations in the following list are based upon a copper bolt in the south edge of east pier of railroad bridge over Flat Creek, 0.7 mile west of Mascot, Tenn., a bench mark of the precise level net. For additional elevations in Middlesboro quadrangle see Tennessee and Virginia lists in bulletins 441 and 434.

The leveling was done in 1903 in Middlesboro quadrangle by W. N. Franklin and F. L. Foust, and in Pineville and Baxter quadrangles by Mr. Foust.

MIDDLESBORO QUADRANGLE.

[Latitude 36° 30'-36° 45'; longitude 83° 30'-83° 45'.]

From Cumberland north along Southern Ry. to point near Ferndale station, thence northeast along highway to Campbells Ford (Percivals Ford). (Mean direct and reverse line.)

Cumberland Gap, summit of; on stone post (Kentucky, Tennessee, and Virginia corner); chisel point.....	Feet. 1648. 47
Middlesboro, 775 feet south of station, in west end of south abutment of culvert over Cumberland Avenue; aluminum tablet stamped "1137 Lexington".....	1136. 447
Middlesboro, in front of station; top of rail.....	1138. 94
Excelsior, coal mines, in front of store door; top of west rail.....	1132. 2
Pineville, 6 miles southeast of, 375 feet northwest of Percivals Ford on Cumberland River, south edge of road; iron post stamped "1029 Lexington".....	1028. 385

From point 4 miles east of Ferndale east to mouth of Shillaly Creek.

Middlesboro, 8 miles northeast of, 30 feet south of mouth of Shillaly Creek, on Clear Fork of Yellow Creek, south edge of road, in bowlder; bronze tablet stamped "1362 Lexington".....	1362. 469
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From Cumberland River west along highway to Wasioto.

Wasioto, in front of station; top of rail.....	1025.
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PINEVILLE QUADRANGLE.

[Latitude 36° 45'-37°; longitude 83° 30'-83° 45'.]

From Wasioto to Pineville.

Pineville, in northeast corner of courthouse; bronze tablet stamped "1012 Lexington".....	1011. 622
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From Campbells Ford northeast along highway to Calloway.

Calloway post office, 200 feet northwest of, 300 feet northwest of residence of J. A. Calloway, 10 feet north of road, in large bowlder; bronze tablet stamped "1082 Lexington".....	1081. 923
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BAXTER QUADRANGLE.

[Latitude 36° 45'-37°; longitude 83° 15'-83° 30'.]

From Calloway east along highway to Harlan.

Layman post office, 200 feet west of, 6.5 miles northeast of Calloway, 0.2 mile west of mouth of Forrester Creek, at north edge of road; chisel point on large bowlder.....	1116. 13
Wallins Creek post office, 2.5 miles northeast of, 700 feet west of residence of Z. B. Wilson, near top of long hill at south edge of road; chisel point on large bowlder.....	1178. 85
Harlan (Mt. Pleasant), 20 feet east of east corner of courthouse; iron post stamped "1197 Lexington".....	1197. 061

From Harlan north along highway to point near mouth of English Fork.

Harlan, 5 miles north of, 200 feet west of west bank of Poor Fork, 0.2 mile south of mouth of English Creek; iron post stamped "1238 Lexington".....	1238. 020
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From Harlan southeast along public road to Pansy post office.

Pansy post office, 700 feet north of, 5 miles southeast of Harlan, 300 feet west of Catrons Creek and Slaters Fork, 300 feet west of Norris Napier's residence, 20 feet east of road; iron post stamped "1328 Lexington".....	1327. 589
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From Layman south along highway 1.3 miles.

Layman post office, 1.3 miles south of, west bank of Forrester Creek, 200 feet west of residence of Frank Saylor; iron post stamped "1158 Lexington"	Feet. 1158.036
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Burnside, Creelsboro, Jabez, and Monticello quadrangles.

CLINTON, PULASKI, RUSSELL, AND WAYNE COUNTIES.

The elevations in the following list are based upon Coast and Geodetic Survey bench mark F-5 at Burnside, being a "chiseled square in stone 40 feet south of station, 8 paces from nearest rail, 8 inches from stone wall, 2 inches from each side of a triangle on surface of a stone," the elevation of which is accepted as 772.086 feet above mean sea level.

The leveling in Burnside and Monticello quadrangles was done in 1906 by F. H. West and additional leveling in Monticello, as well as all the leveling in Creelsboro and Jabez quadrangles, was done in 1911 by C. E. Mills.

BURNSIDE QUADRANGLE.

[Latitude 36° 45'-37°; longitude 84° 30'-84° 45'.]

From Burnside west via Bronston and Sloan to Millsprings.

Bronston, 1.36 miles south from, in chimney on north side of Frisby Mercer's house, east side of Monticello pike; aluminum tablet stamped "881"	Feet. 884.585
Frazers, 1.5 miles northeast of, 0.5 mile northeast of Mercer Bros.' store, on east side of pike, in west face of chimney on north side of Mrs. Nan Corbett's house; aluminum tablet stamped "905"	905.006
Frazers, 1.86 miles southwest of, on east side of pike, 0.25 mile north of stage coach "Halfway" station, in north face of chimney on north side of J. B. Hines's house; aluminum tablet stamped "891"	890.914

MONTICELLO QUADRANGLE.

[Latitude 36° 45'-37°; longitude 84° 45'-85°.]

From Millsprings south via Steubenville to Monticello.

Millsprings, in south face of foundation to J. B. Pearrigin's house; aluminum tablet stamped "844"	843.978
Steubenville, 0.5 mile north of, west side of pike, 0.25 mile north of Steubenville oil-pumping station, in north face of chimney, on north side of house; aluminum tablet stamped "917"	916.933
Monticello, 1.5 miles north of, on east side of pike, at T road and pike southwest, in stone support to schoolhouse; aluminum tablet stamped "964"	964.039
Monticello, on north side of front steps to courthouse, in second step from bottom; aluminum tablet stamped "926"	926.010

From Monticello southeast to Oil Valley, thence southwest via Cooper to Shearer Valley.

Monticello, 3.55 miles southeast of, 1.5 miles northwest of Oil Valley, 21 feet from southeast corner of wall around graveyard, 200 yards east from schoolhouse, in wall, on south side of and 5 feet from pike; aluminum tablet stamped "938"	937.786
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Oil Valley, at junction of T roads 50 feet northeast from store, 3 feet north-east from and between two 3-foot white oaks, in bowlder; aluminum tablet stamped "966"	Feet. 966. 178
Cooper, 0.5 mile southeast of, at junction of Y roads 200 yards northeast from gate leading to Duncan's farm, in ledge of rock; aluminum tablet stamped "1001"	1000. 938
Shearer Valley, 1.55 miles northeast of, on north side of Shearer Valley-Cooper road, 20 yards east of gate to Cooper's place, in bowlder; aluminum tablet stamped "1074"	1073. 688

From Shearer Valley north via Bethesda, Alex, and Susie to Murl.

Bethesda, 0.47 mile west of, on north side of Albany road, 10 paces east of and on opposite side of road from blazed oak tree, in bowlder; aluminum tablet stamped "1101"	1101. 274
Alex, 1.65 miles southwest of, on east side of Albany road, on north side of J. P. Radse's house, in west face of stone chimney; aluminum tablet stamped "1061"	1060. 85
Murl, 0.5 mile south of, on south side of D. W. Rector's house, in chimney; aluminum tablet stamped "1036"	1035. 565

From Murl east to Monticello.

Monticello, 2.55 miles west of, on south side of road, 75 paces west of west bank of Beaver Creek, 5 feet from south side of road, in line with east end of residence building at pipe pumping station, in ledge; aluminum tablet stamped "756"	751. 613
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From Murl northwest via Parnell to Bart, thence northeast to Dell.

Murl, 2.55 miles northwest of, 200 yards east of intersection of Cooper Branch and Beaver Creek, on north side of Cooper Branch road, at east face of Shelby Cooper's house, in chimney; aluminum tablet stamped "655"	654. 803
Parnell, 0.75 mile southeast of, Prim. Trav. Sta. No. 9, at junction of Y roads, in southwest corner of schoolhouse; tablet stamped "1029"	1028. 663
Parnell, 3.15 miles northwest of, 0.09 mile south of deserted house on west side of road in hollow 1 mile south of R. W. Coons' house, 0.75 mile north from nearest house on road south, on west side of road, in rock; aluminum tablet stamped "971"	970. 172
Bart, 300 yards northeast of, at east side of R. A. Ramsay's house, in east face of chimney; aluminum tablet stamped "641"	640. 244
Palace post office, at north side of, in east face of chimney; aluminum tablet stamped "650"	649. 270
Dell, 100 paces south of, in field, 15 paces east of junction of T roads, near large oak stump, 10 paces east of fence, in bowlder; aluminum tablet stamped "Prim. Trav. Sta. No. 7, 989"	988. 365

From Dell southeast to Millsprings.

Dell, 4 miles southeast of, 2 miles northwest from Oak Grove schoolhouse, on south side of Monticello-Richards Ferry road, at east side of J. P. Brown's house, in east face of chimney; aluminum tablet stamped "1002"	1001. 320
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From Millsprings north along highways 4.7 miles.

Millsprings, in south face of foundation of J. B. Pearrigin's house; aluminum tablet stamped "844"	843. 978
Millsprings, 0.5 mile west of, on north bank of Cumberland River at ford; copper nail in base of 10-inch sycamore tree, marked "591.0"	591. 04

	Feet.
Cumberland River, surface of water at Millsprings ford, April 21, 1911...	588.
Millsprings, 1.6 miles north of, on Millsprings-Somerset road, in front of G. W. Johnston's orchard, in eleventh post south of northwest corner fence post; copper nail marked "854.1".....	854. 12
Millsprings, 2.6 miles north of, on Millsprings-Somerset road, in front of W. L. Barker's residence, on stone wall 1 foot south of gate; chiseled square marked "857.3".....	857. 31
Millsprings, 3.2 miles north of, on west side of Millsprings-Somerset road, 100 feet south of T road west, in top of 9 by 9 by 26 inch stone about 2 inches above ground; aluminum tablet stamped "Prim. Trav. Sta. No. 6, 1906, 924".....	923. 985
Millsprings, 3.5 miles north of, northeast corner of road forks on White Oak Creek; copper nail in root of 2½-foot beech tree, marked "720.6"...	720. 59
Millsprings, 4.7 miles north of, in front of Sam Van Hoosier's residence, in southwest corner of yard; copper nail in top of first fence post east of corner post, marked "947.7".....	947. 14
From point near Naomi west along highways to point 1 mile southeast of Vinnie.	
Naomi, about 1.8 miles south of, on Robertsport road, about 400 feet north of Cornelius Holcon's residence, on east side of road at T road west going down on Beelick Creek; copper nail in root of small oak tree, marked "993.5".....	993. 55
Naomi, about 3 miles west of, on ridge between Beelick and Faubush creeks, in northwest corner of Henry Dalton's yard; copper nail in top of fence post, marked "977.5".....	977. 53
Vinnie, about 3 miles southeast of, on west bank of Faubush Creek, in east end of north foundation wall of porch to James M. Ard's residence, 1.5 feet above ground; aluminum tablet stamped "674".....	674. 097
Vinnie, about 2.5 miles southeast of, 50 feet south of bend in road in front of Squire Richardson's residence, on west side of road; copper nail in root of black oak tree, marked "967.6".....	967. 58
Vinnie, about 1.8 miles southeast of, at northeast corner of road forks; copper nail in root of 16-inch white walnut tree, marked "947.0".....	947. 00
Vinnie, about 1 mile southeast of, on west side of road at road forks on Richardson road; copper nail in root of 2-foot beech tree, marked "945.1".....	945. 14
From point 1 mile northeast of Jabez west along highways to point 1.8 miles west by 1.3 miles south of Ono.	
Jabez, 0.7 mile northeast of, in center of road forks; copper nail in root of large oak tree, marked "1046.0".....	1, 046. 06
Jabez, in northwest corner of crossroads; copper nail in root of oak tree, marked "1051.3".....	1, 051. 35
Jabez, 0.6 mile west of, in southwest corner of T road south, copper nail in base of fence post, marked "1010.5".....	1, 010. 51
Jabez, 1.1 miles west of, in southwest corner of T road south; nail in root of small oak tree, marked "974.5".....	974. 52
Jabez, 1.6 miles southwest of, on Jamestown road, about 500 feet north of road, on south side of house of D. W. Stephens, in west side of large sandstone chimney; aluminum tablet stamped "975".....	975. 255
Jabez, 2.6 miles southwest of, 230 feet east of road forks, at Polston school; chiseled square on stone ledge on north side of road, marked "975.3"...	975. 37
Jabez, 3.4 miles southwest of, on Jamestown Road, hill on east side of Wolfe Creek, chiseled square on large limestone rock on north side of road; marked "833.6".....	833. 62

Ono, 1.1 miles southeast of, 4 miles west of Jabez, 400 feet north of Wolf Creek at ford, 150 feet south of road forks, 70 feet west of Jamestown road, at foot of hill on Elmer Hughes's farm, in limestone ledge; aluminum tablet stamped "648".....	Feet. 648. 273
Ono, at northeast corner of crossroads; copper nail in root of oak tree, marked "976.1".....	976. 17
Ono, 1.1 miles west of, on south side of road at top of hill going down to Caney Fork Creek; copper nail in root of stump of large tree, marked "929.8".....	929. 88
Ono, 1.8 miles west of, 350 feet above junction with Caney Fork, on west bank of McFarland Creek, in stone ledge about 3 feet above water level; aluminum tablet stamped "Prim. Trav. Sta. No. 8, 636".....	636. 043
Ono, 1.8 miles west by 0.9 mile south of, on Caney Fork, 300 feet south of house, on east bank of creek; painted square on stone ledge, marked "615.8".....	615. 88
Ono, 1.8 miles west by 1.3 miles south of, on east bank of Caney Fork at bend of creek to west; chiseled square on stone shelf, marked "611.3".....	611. 38

From point 3.7 miles southwest of Bart along highways to Bart.

Bart, 3.7 miles southwest of, on north side of road, 200 feet west of Elbert Haford's residence; chiseled square on top of large stone, marked "651.8".....	651. 83 .
Bart, 2.4 miles southwest of, 125 feet northeast of J. C. Miller's residence, 10 feet north of road, in limestone rock; aluminum tablet stamped "676".....	676. 018
Bart, 2 miles southwest of, on east side of small creek, on south side of road at T road north uphill; chiseled square on large rock, marked "648.8".....	648. 87
Bart, 0.8 mile southwest of, on north side of road; copper nail in root of 12-inch tree, marked "648.5".....	648. 52
Bart, on west side of Cumberland River, 100 feet north of Falkenberg and Meadow's store; copper nail in large sycamore tree, marked "613.2"....	613. 28
Cumberland River at Bart, surface of water, May 20, 1911.....	568. 5
Bart, 300 yards northeast of post office, in east face of chimney on east side of R. A. Ramsay's house; aluminum tablet stamped "641".....	640. 244

JABEZ QUADRANGLE.

[Latitude 37°-37° 15'; longitude 84° 45'-85°.]

From point 1 mile southwest of Naomi along highways to point 1.25 miles south of Naomi.

Millsprings, 6 miles north of, about 1 mile southwest of Naomi, in southwest corner of road forks, 150 feet south of Roberstport road, copper nail in top of stump of 11-inch black walnut tree, marked "983.3".....	983. 34
Naomi, about 1.25 miles south of, on Robertsport road, on west side of road, on south side of house of Rufus Tarter, in base of large stone chimney; aluminum tablet stamped "1017".....	1, 017. 502
Vinnie, about 0.8 mile southwest of, 200 feet east of Sandy Hollow school, 20 feet south of center of road, 15 feet west of haul road to south, in top of limestone rock 9 by 9 inches; aluminum tablet stamped "1055".....	1, 055. 151

CREELSBORO QUADRANGLE.

[Latitude 36° 45'-37°; longitude 85°-85° 15'.]

From point 1.8 miles west by 2.2 miles south of Ono south along highways to point 4.6 miles west of Bart.

Ono, 1.8 miles west by 2.2 miles south of, on east side of road, 50 feet south of forks of road on hillside, 100 feet northwest of house; chiseled square on large stone, marked "663.2".....	Feet. 663. 20
Ono, 1.8 miles west by 3.3 miles south of, on south bank of Wolf Creek, in center of road forks; copper nail in root of large hickory tree, marked "579.7".....	579. 69
Bart, 5.7 miles west of, on east bank of Wolf Creek, 425 feet above mouth, east side of road, in north face of large limestone rock; aluminum tablet stamped "611".....	610. 604
Bart, 4.6 miles west of, 1 mile southeast of mouth of Wolf Creek, on south side of road at T road north up hill; copper nail in base of fence post, marked "625.5".....	625. 55

Harrodsburg 30' quadrangle (comprising Bryantsville, Mitchellsburg, Nicholasville, and Talmage 15' quadrangles).**ANDERSON, BOYLE, GARRARD, JESSAMINE, LINCOLN, MERCER, AND WOODFORD COUNTIES.**

The elevations in the following list are based upon various bench marks of the Coast and Geodetic Survey precise level line passing through this quadrangle.

The leveling was done in 1902 by F. A. Franck and in 1903 by W. Goodwin, jr.

HARRODSBURG QUADRANGLE.

[Latitude 37° 30'-38°; longitude 84° 30'-85°.]

From Burgin along highway west to Harrodsburg, thence southwest to Mitchellsburg, thence along Louisville & Nashville R. R. east to Shelby Ciy, thence north along highway to Burgin.

Burgin, 300 feet southwest of southwest corner of Cincinnati, New Orleans & Texas Pacific Ry. station, in east foundation wall of Burgin Roller Mills, 33 feet north of southeast corner, 22 inches above ground, 4.5 inches below tin siding; brass bolt (Coast and Geodetic Survey bench mark "M").....	Feet. 901. 169
Harrodsburg, in foundation under northwest corner of courthouse, 0.14 foot above ground; aluminum tablet stamped "870 Lexington." (Reported destroyed, 1912).....	871. 108
Perryville, in foundation under northwest corner of Baptist Church, at intersection of Danville and Mitchellsburg pikes; aluminum tablet stamped "851 Lexington".....	851. 393
Danville, in front step of courthouse; aluminum tablet stamped "988 Lexington".....	988. 535
From Harrodsburg along highway west via Rose Hill to Bruners Chapel and Bestonia. (Single-spur line.)	
Harrodsburg, 1.2 miles from, on southeast side of masonry of bridge over Salt River near Power House; bolt.....	825. 687
Rose Hill, 1.5 miles west of, on Maxwell Pike, east side of Bruners Chapel (Baptist), in masonry; aluminum tablet stamped "921 Lexington"....	921. 374
Bestonia, in southwest corner of abutment of bridge crossing Chaplin River; aluminum tablet stamped "747 Lexington".....	746. 998

From Mitchellsburg south along highway to Forkland. (Single-spur line.)	
	Feet.
Mitchellsburg, at station; spike in telegraph pole.....	993. 55
Forkland, near southeast corner of Calhoun's store; iron post stamped "806 Lexington".....	806. 702
From Danville east along highway to Marksburg.	
Marksburg, in southwest corner of foundation of store and post office; aluminum tablet stamped "981 Lexington".....	981. 175
From Shelby City along highway south to Milledgeville, thence east to Stanford.	
Milledgeville, in northeast corner of foundation of Moss Russell's residence, on west side of pike, in heavy stone; aluminum tablet stamped "1035 Lexington".....	1, 035. 453
Stanford, in east side of step of courthouse; aluminum tablet stamped "912 Lexington".....	912. 495
From Milledgeville west 1.3 miles to Harris Creek. (Single-spur line.)	
Milledgeville, 1.3 miles west of, at forks of road, 30 feet from intersection, 15 feet from center of right fork leaving Milledgeville, in top of small rough rock; aluminum tablet stamped "1010 Lexington".....	1, 010. 157
From Stamford northeast along Louisville & Nashville R. R. to Lancaster, thence along highway north via Marksburg to Wilmore.	
Lancaster, in top step of front corridor of courthouse, north side; aluminum tablet stamped "1032 Lexington".....	1, 032. 216
From Lancaster southeast along highway to Sweeney. (Double-spur line.)	
Sweeney, 175 yards west of post office, west side of pike, near cut, on summit of hill, 3.5 feet above pike, in small bluff; aluminum tablet stamped "1023 Lexington".....	1, 024. 273
From Bryantsville east along highway to Bourne. (Single-spur line.)	
Bryantsville, opposite store at road west, in top of stepping block; aluminum tablet stamped "953".....	953. 442
Bourne, at corner of road south, near famous Buckeye Corner, in northeast corner of foundation of old stone building; aluminum tablet stamped "928 Lexington".....	928. 000
From High Bridge northeast along Cincinnati, New Orleans & Texas Pacific Ry. to Brannon.	
High Bridge, north end of bridge over Kentucky River, on coping stone of pier, west of track, 10 inches east of west edge; brass bolt (Coast and Geodetic Survey bench mark J-1).....	763. 888
Nicholasville, in east end of top stone step of courthouse; aluminum tablet stamped "947 Lexington." (This bench mark is on a single spur line.).	947. 935
Brannon, in table stone of front doorstep of stones at brick store near Cincinnati, New Orleans & Texas Pacific Ry.; aluminum tablet stamped "1041 Lexington".....	1, 041. 057

From Brannon along highway west via Mortonville to Salvisa, thence south along Southern Ry. to Harrodsburg.

Pinckard, in west foundation of store at junction of Versailles and Lexington and Nicholasville and Lexington pikes; bronze tablet stamped "824 Lexington".....	Feet. 824. 140
Mortonville, in southwest corner of foundation of post office; bronze tablet stamped "789 Lexington".....	789. 877
Salvisa, in south side of masonry of Masonic Lodge; bronze tablet stamped "808 Lexington".....	808. 262

From Salvisa west along highway to Kirkwood. (Single-spur line.)

Kirkwood, at northeast corner of store; iron post stamped "852 Lexington".	852. 453
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From McAfee west along highway to Mayo. (Single-spur line.)

McAfee station (Talmage), west side of track, 35 feet south of turnpike, near cattle guard, in stone in right of way; aluminum tablet stamped "821 Lexington".....	821. 428
Mayo, 16 feet northwest of steps of residence of Mr. Kelly, in circular part of stone wall; bronze tablet stamped "904 Lexington".....	904. 555

Frankfort, Georgetown, Lockport, Owenton, and Sadieville quadrangles.

ANDERSON, FAYETTE, FRANKLIN, HENRY, OWEN, AND WOODFORD COUNTIES.

The elevations in the following list are based upon a line of precise leveling from Georgetown to Louisville.

The leveling in the Georgetown and Frankfort quadrangles was done in 1904, mostly by L. L. Lee, and was completed in 1906 by L. P. Hoover and F. H. West; that in Lockport, Owenton, and Sadieville quadrangles was done in 1906 by F. H. West.

FRANKFORT QUADRANGLE.

[Latitude 38°-38° 15'; longitude 84° 45'-85°.]

From Benson via Lockport to Pleasant Home.

Benson, 4 miles northwest of, 1.2 miles south of old Tioga post office, on east side of Mt. Zion Pike, in west face of chimney of Mr. Allison's house; aluminum tablet stamped "857".....	Feet. 857. 028
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From Versailles along Southern Ry. west to Lawrenceburg, thence south to Salvisa.

Milner, 0.6 mile east of, in northeast corner of Griens Church; aluminum tablet stamped "894".....	892. 616
Tyrone, 125 feet southwest of station, 20 feet north of rail, 2 feet inside right of way fence, on property of W. H. Lillard; iron post stamped "737 Lexington".....	737. 560
Lawrenceburg, Anderson County courthouse, at north edge of west entrance step, in north sandstone head block; aluminum tablet stamped "788 Lexington".....	788. 078

From Lawrenceburg north along highway to Frankfort.

Alton, at northeast corner of junction of T roads, in west face of foundation of doctor's house; aluminum tablet stamped "839".....	839. 167
Farmdale, on east side of Frankfort Pike, 300 feet south of Morris McCuen's store, in stone gate post; aluminum tablet stamped "849".....	849. 154
Frankfort, in extreme southwest corner of State capitol grounds; iron post stamped "511 Lexington." (Loose in wet weather.).....	511. 208

From Frankfort southeast along Louisville & Nashville R. R. to Spring Station.

Jetts, 100 feet southeast of, on west side of Louisville and Nashville R. R., in east foundation of mills; aluminum tablet stamped "791".....	Feet. 791. 000
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LOCKPORT QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 84° 45'-85°.]

From Benson north via Harpers Ferry to Pleasant Home.

Old Tioga post office, 1.6 miles north of, on south side of St. Johns pike, 300 feet east of junction of St. Johns and Mt. Zion pikes, old house facing St. Johns pike, front of chimney between wings; aluminum tablet stamped "912"	912. 362
Lebanon Church, north face of foundation; aluminum tablet stamped "890".....	889. 550
Benson, 11.4 miles north of, junction of Bald Knob-Bailey's mill pike and Pleasantville-Flat Creek pike, at southeast corner of Edwin Bailey's house, north face of chimney; aluminum tablet stamped "906".....	906. 031
Harpers Ferry, 0.5 mile south of, on Harpers Ferry-Flat Creek pike, north side of road, in chimney in Mr. Harding's house; aluminum tablet.....	880. 216
Harpers Ferry, 3.8 miles north of, 100 feet west of junction of Lockport and Portrifle Creek roads, Mrs. Lucy Halls; aluminum tablet.....	612. 366
Lockport, lock 3 feet from north end, west wall; aluminum tablet stamped "450"	450. 131
Gratz, 0.5 mile south of, at Y roads, in corner of E. T. Thamori's yard; iron post stamped "496" (traverse station mark also)	495. 842
Gratz, Joe Scott's house, north side, in east face of chimney; aluminum tablet stamped "484"	484. 019

From Pleasant Grove east and south via Cedar Hill and Hesler to Walnut Grove.

Cedar Hill, H. W. Scott's house, northwest corner of foundation; aluminum tablet.....	897. 791
Hallam, 0.8 mile south of, west side of Georgetown pike, stone chimney of James Taylor's house; aluminum tablet.....	939. 816
Hesler, 0.1 mile north of Hesler's store, in stone foundation of J. O. Ban- non's house; aluminum tablet.....	941. 827
Walnut Grove, 2 miles north of, south side, east front of chimney of G. G. Gaines's house; aluminum tablet	942. 865
Walnut Grove, north side of Indian Creek, in front of Jack Gaines's residence, in slab; aluminum tablet.....	687. 363

From Walnut Grove west 13 miles to point south of Harpers Ferry.

Walnut Grove, 3.4 miles west of, 0.5 mile west of junction of Cedar and Indian creeks, east side of road, in chimney of Mr. Conway's house; aluminum tablet stamped "636"	635. 754
Junction of Bald Creek road and Ballards Landing-Monterey road, in foun- dation of S. J. Ballard's house; aluminum tablet stamped "499".....	498. 550

From Walnut Grove south via Harmony and Elmville to Switzer.

Elmville, east side of north face of R. B. Givin's house; aluminum tablet stamped "720"	719. 690
Peaks Mills, 0.8 mile north of, in east abutment, south side, of bridge over Camp Pleasant Branch; aluminum tablet stamped "526"	525. 442
Switzer, 3.2 miles north of, south side of abutment of bridge over Peaks Mills Creek, at Jackson's store; aluminum tablet stamped "542"	541. 911

OWENTON QUADRANGLE.

[Latitude $38^{\circ} 30' - 38^{\circ} 45'$; longitude $84^{\circ} 45' - 85^{\circ}$.]

At Pleasant Home.

Pleasant Home, north side of Owenton-Clear Lick pike, in chimney of W. H. Lowdenbach's house; aluminum tablet stamped "888".....	Feet. 887. 449
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SADIEVILLE QUADRANGLE.

[Latitude $38^{\circ} 15' - 38^{\circ} 30'$; longitude $84^{\circ} 30' - 84^{\circ} 45'$.]

Near Harmony.

Harmony, 0.5 mile south of; on Elmville-Harmony road, south face of stone chimney in W. B. Watson's house; aluminum tablet stamped "717".....	716. 423
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NOTE.—Rerunning shows that the line between Walnut Grove and a point 9.7 miles south may be 2.5 feet in error. The first running has been accepted.

GEORGETOWN QUADRANGLE.

[Latitude $38^{\circ} - 38^{\circ} 15'$; longitude $84^{\circ} 30' - 84^{\circ} 45'$.]

From Lexington along Southern Ry. west to Versailles, thence north to Midway, thence west to Spring station.

Lexington, at northeast corner of North Main and Maxwell streets, at east stairway entrance to Dr. H. A. Phillip's drug store, in center of west end of door stone, brass bolt; lettered "U. S. C. & \oplus G. S." (Coast and Geodetic Survey b. m.).....	979. 552
Lexington, corner stone at southeast corner of Natural Science Building, State University; aluminum tablet stamped "984".....	983. 806
Lexington, county courthouse, in second stone step of Mill Street or west entrance; aluminum tablet stamped "957".....	956. 992
Elk Chester station, on Southern Ry., 75 feet west by 20 feet north of track, in southeast stone pillar of large warehouse; aluminum tablet stamped "841 Lexington".....	841. 286
Versailles, 400 feet west of station, crossing of Frankfort pike, southwest angle of, in lot of Belle Hunter; iron post stamped "923 Lexington"....	923. 238
Bonita, 1 mile west of, 3 miles north of Versailles, on Versailles-Midway pike, in large brick house of Mr. Geo. McLeod; aluminum tablet stamped "904.69".....	904. 729
Midway, northeast corner of post office; aluminum tablet stamped "820"...	820. 317
Spring station, south face of stone, at northeast junction of railroad and pike crossing; aluminum tablet stamped "816".....	815. 774

From Lexington to Elk Chester station.

Lexington, Broadway and Maxwell streets, 0.7 mile west of crossing of Louisville Southern R. R. and West High Street; top of ear drum of southeast railroad gate holder.....	956. 122
Paynes, 1 mile east of station, in southeast corner of iron bridge over branch; lone bolt-head.....	888. 174
Paynes Crossing, 1 mile west of, on north edge of railroad; point on top of large rock near cattle guard.....	909. 311

Taylorsville quadrangle.

[Latitude 38°-38° 15'; longitude 85° 15'-85° 30'.]

BULLITT, JEFFERSON, SHELBY, AND SPENCER COUNTIES.

The elevations in the following list were determined by primary leveling extended from the precise-level line between Georgetown and Louisville, which crosses this quadrangle. Additional elevations will be found in list under precise leveling.

The leveling was done in 1910 by E. C. Bibbee.

From Long Run station south along highways to Waterford, thence west to Smithville.

	Feet.
Long Run station, 100 feet east of, north of track, at intersection of road with right of way; iron post stamped "629"	629. 399
Long Run, 1 mile south of, on south end of stone culvert under wagon road; chiseled square painted "734.2"	734. 31
Clark station, 600 feet east of, on east end of culvert under pike, 12 feet north of railroad at road crossing; paint spot on large rock, painted "695.5"	695. 54
Clark, on north side of railroad, 100 feet northwest of station, at railroad crossing; iron post stamped "685"	685. 011
Clark, 0.7 mile south of, on east side of road; spike in top of large oak stump, painted "761.3"	761. 45
Clark, 1.6 miles south of, north side of T road north; bolt head in root of ash tree, painted "638.1"	638. 33
Wilsonville, 2.7 miles north of, on Louisville pike, at crossroads, on southwest corner; iron post stamped "600"	600. 561
Wilsonville, 1.9 miles northwest of, on Louisville pike, near southeast corner of church lot; iron bolt in root of large oak tree, painted "645.1"	645. 34
Wilsonville, 0.6 mile northwest of, on pike, top of rock milepost marked "L 22 T 10," painted "720.4"	720. 66
Wilsonville, southwest corner of R. H. Heady's yard, at intersection of Louisville-Taylorsville pike and Waterford pike; iron post stamped "642"	642. 631
Wilsonville, 0.9 mile south of, 25 feet south of small creek at ford; top of rock, painted "623.4"	623. 66
Wilsonville, 1.9 miles south of, south end of pike where road enters creek; chiseled square on rock, painted "598"	600. 84
Wilsonville, 3 miles south of, 480 feet south of north end of pike, in southeast corner of H. Jennings's garden; iron post stamped "591"	591. 682
Wilsonville, 4 miles south of, on east end of culvert under wagon road; chiseled square painted "564.6"	564. 95
Wilsonville, 5 miles south of, on west side of pike, opposite old ice house; chiseled square on rock, painted "555.6"	555. 98
Wilsonville, 6.4 miles south of, at T road near junction of Little Plum and Big Plum creeks; iron post stamped "513"	513. 683
Wilsonville, 7.4 miles south of, at T road east, on south abutment east side of small bridge; chiseled square painted "487.4"	487. 83
Waterford, on east side of pike, 200 feet north of junction of Waterford-Elk Creek pike; bolt head in top of stump of large sycamore tree painted "473.4"	473. 77
Waterford, at northwest corner of public schoolhouse; iron post stamped "468"	468. 28

Waterford, 0.8 mile west of, at T road east; bolt head in root of elm tree on east side of road painted "455.9"	Feet. 456. 28
Waterford, 1.28 miles west of, on south side of public road; paint spot on top of large rock, painted "477.8"	478. 17
Waterford, 2.5 miles west of, on south side of public road, 25 feet east of T road east, at McGee ford over Salt River, 45 feet southwest of R. E. Cochran's residence; iron post stamped "455"	455. 731
Smithville, 2.4 miles east of; top of west end of iron culvert under road, painted "444.1"	444. 51
Smithville, 1 mile east of, on pike, south side of road at Y road; chiseled square on rock, painted "474.9"	475. 25

From Waterford east along highways to Taylorsville, thence south along highways to point about 2 miles northwest of Wakefield.

Waterford, 1.6 miles east of, on southwest corner of abutment of small bridge; chiseled square painted "565.6"	566. 03
Waterford, 3 miles east of, 15 feet west of Waterford-Taylorsville pike, 150 feet west of Elk Creek ford, in southeast corner of J. E. Dearnmyers's yard; iron post stamped "522"	522. 534
Taylorsville, 2.4 miles west of, at private road south, on southwest corner of abutment of small bridge; chiseled square painted "496.6"	496. 98
Taylorsville, at southeast corner of courthouse, iron post stamped "Trav. Sta. No. 4, 489"	489. 642
Taylorsville, 1.1 miles south of, on pike at T road west, on large flat rock at west side of pike; chiseled square painted "695.0"	695. 43
Taylorsville, 2.1 miles south of, on pike, at northwest corner of T road; bolt head in root of walnut tree, painted "727.8"	728. 20

NOTE.—The above elevations are not adjusted, as there is an excessive error in the circuit in closing on the line from Smithville south and east to Wakefield.

Bardstown quadrangle.

[Latitude 37° 45'-38°; longitude 85° 15'-85° 30'.]

BULLITT, NELSON, SPENCER, AND WASHINGTON COUNTIES.

The elevations in the following list were determined by a single unchecked spur line based on a triple checked spur line run from the bench mark at Mt. Washington to High Grove. A correction of 0.115 foot has been added to the elevation to agree with the adjusted elevation of the bench mark at High Grove. The closing error of minus 0.277 foot in the circuit based on the single unchecked spur line has not been distributed through the circuit.

The leveling was done in 1906 by F. H. West and E. P. Hoover.

From High Grove south along highways to Coxs Creek, thence easterly to Fairfield.
(Single unchecked line.)

High Grove, in chimney of W. T. McClure's house; aluminum tablet.....	Feet. 498. 947
Bardstown-Louisville pike, top of milepost "7 miles to Mt. Washington" ..	605. 34
Mt. Washington, 8.2 miles south of, in foundation wall of W. B. Well's house; aluminum tablet.....	705. 449
Mt. Washington, 10.8 miles south of; on Bardstown-Louisville pike, in corner of wall of Mrs. Lou Able's house; aluminum tablet.....	670. 292

Mt. Washington, 11 miles south of, top of milepost marked "11 miles Mt. Wash.".....	Feet. 703. 454
Mt. Washington, 13 miles south of, on east side of Bardstown-Louisville pike, in doorstep of Oscar Manning's house; aluminum tablet.....	692. 020
Coxs Creek post office, 1 mile east of, east side of Fairfield pike; on stone..	650. 01
Coxs Creek post office, 2.5 miles east of, on Fairfield pike, in front foundation of E. B. Well's house; aluminum tablet.....	735. 625
Coxs Creek post office, 2 miles east of, on north side of Fairfield pike, in middle of T road; on rock.....	704. 04
Fairfield, in foundation of C. I. Stewart's house; aluminum tablet.....	715. 525

From Fairfield east along highways to Bloomfield, thence north to point 2.8 miles north of Wakefield, thence south to starting point. (A closed circuit based on a single unchecked spur line.)

Bloomfield, Louisville & Nashville R. R. bridge over Simpson Creek, southeast corner of abutment; aluminum tablet.....	640. 811
Bloomfield, 2.8 miles north of, culvert over railroad track, 4 feet west of west track, north abutment, at northwest corner; aluminum tablet.....	715. 811
Wakefield, 1 mile northwest of, at entrance of private roadway to Geo. W. Down's house, in rock culvert; aluminum tablet.....	681. 415
On Little Union pike going west to Fairfield, 100 yards west of Lower Camp Branch school (16th district), south side of pike, nearest Simpson Creek, in rock; aluminum tablet.....	517. 789
Bardstown pike, 3.3 miles southwest of, M. B. Allen's brick house on north side of Little Union pike, east side of chimney; aluminum tablet.....	767. 322

From point 1 mile northwest of Wakefield along highway to a point 3.2 miles south of Taylorsville.

(The following elevation is not adjusted, as there is an error of 1 foot in closing on the line from Taylorsville run in 1910.)

Taylorsville, 3.2 miles south of, on Bloomfield pike, northwest side of road, on stone culvert; chiseled square, painted "743.8".....	743. 21
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Clermont, Kosmosdale, Lagrange, Louisville, Prospect, and Vinegrove quadrangles.

BULLITT, JEFFERSON, AND OLDHAM COUNTIES.

The elevations in the following list are based upon bench marks at Louisville and Westport, United States Corps of Engineers precise line, Ohio River Survey.

The leveling was done in 1905 by Fox Wood.

KOSMOSDALE QUADRANGLE.

[Latitude 38°-38° 15'; longitude 85° 45'-86°.]

From Louisville from United States Engineers b. m. No. 10, on old guard gate, south to Fourth Street crossing Louisville & Nashville R. R. and return.

NOTE.—All elevations in the following list are determined by single-line offsets from main level lines.

Louisville, on old abutment, south side of canal, about 10th Street near west end of gate recess; north quadrant of circle (U. S. Corps of Engineers b. m. 10).....	417. 143
Louisville, edge of city, Ahren & Ott's Standard Sanitary Manufacturing Co., in northeast corner of factory building; aluminum tablet stamped "465, Adj., 1903." (Redetermined by precise leveling of 1906.).....	465. 074

From Louisville southwest along highway near Louisville & Nashville R. R. to Riverview, thence southeast to Shepherdsville.

	Feet.
Shively, junction of Seventh and Eighteenth Street roads, in St. Helen's Church; aluminum tablet stamped "458, Adj., 1903".....	458. 246
Valley station, 1 mile west of, in front doorsill of Bethany Church; aluminum tablet stamped "452, Adj., 1903".....	452. 365
Barrallton, 1.5 miles southwest of, in R. D. Snellen's yard, on Riverview-Shepherdsville road; iron post stamped "Prim. Trav. Sta. No. 33, 483, Adj., 1903".....	482. 802

VINEGROVE QUADRANGLE.

[Latitude 37° 45'-38°; longitude 85° 45'-86°.]

From Riverview southwest to West Point. (Single spur line.)

West Point, Kentucky and Indiana Bank building; aluminum tablet stamped "441, Adj., 1903".....	441. 204
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CLERMONT QUADRANGLE.

[Latitude 37° 45'-38°; longitude 85° 30'-85° 45'.]

From Gap in Knob south to Shepherdsville.

NOTE.—This elevation was determined by a single-line offset from a main level line.

Shepherdsville, in northwest corner of courthouse yard; iron post stamped "Prim. Trav. Sta. No. 32, 445, Adj., 1903".....	445. 589
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LOUISVILLE QUADRANGLE.

[Latitude 38°-38° 15'; longitude 85° 30'-85° 45'.]

From Louisville along highway south to Gap in Knob, thence east to Mount Washington, thence north to Jeffersontown.

NOTE. —All elevations in the following list, except at Gap in Knob and Brooks Station, are determined by single-line offsets from main level lines.	
South Park, 60 feet south of station, in rock in corner of fence; aluminum tablet stamped "Prim. Trav. Sta. No. 31, 478, Adj., 1903".....	478. 407
Brooks, 0.25 mile north of station, between mileposts 12 and 13, in east end of stone culvert; aluminum tablet stamped "513, Adj., 1903".....	513. 698
Gap in Knob, 100 yards north of station, west of railroad, in stone culvert; aluminum tablet stamped "493, Adj., 1903".....	493. 332
Pleasant Grove Schoolhouse, 200 feet south of, 50 feet from front of R. L. Smith's residence, north of Shepherdsville and Mount Washington roads, in large flat stone; aluminum tablet stamped "577, Adj., 1903".....	576. 844
Shepherdsville, 6 miles east of, on Shepherdsville and Mount Washington roads, south side of road; iron post stamped "651, Adj., 1903 Prim. Trav. Sta.".....	651. 263
Mount Washington, in corner of Peoples Bank building; aluminum tablet stamped "688, Adj., 1903".....	688. 678
Mount Washington, 2 miles north of, on Bardstown Pike, east side of bridge across Floyds Fork, in south abutment; aluminum tablet stamped "487, Adj., 1903".....	487. 507
Fairmount, on Bardstown Pike, 15 miles from Louisville, in southeast corner of Fairmount Church; aluminum tablet stamped "717, Adj., 1903".....	717. 259

From Jeffersontown west along Southern Ry. to Fourth Street crossing in Louisville.

Jeffersontown, in Jefferson Bank; aluminum tablet stamped "711, Adj., 1903".....	Feet. 711. 561
Burchel, 1.1 miles north of station, on Bardstown Pike, in stone bridge across Bear Gross Creek; aluminum tablet stamped "484, Adj., 1903".....	483. 903
Louisville, Preston Street Pike, in concrete abutment of Southern Ry. bridge over pike; aluminum tablet stamped "512, Adj., 1903".....	511. 952

From Jeffersontown along highway north to Anchorage.

Middletown, corner of Anchorage and Shelbyville pikes, in brick church; aluminum tablet stamped "722, Adj., 1903".....	721. 872
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From Mount Washington south to Smithville.

Smithville, corner of yard behind Fairbanks scales; iron post.....	488. 014
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PROSPECT QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 85° 30'-85° 45'.]

From Anchorage north along highway to Goshen, thence northeast to Westport.

NOTE.—All elevations in the following list are determined by single-line offsets from main level lines.

Anchorage, in circular park, about 300 feet northwest of clubhouse, 62 feet southwest of track; iron post stamped "Prim. Trav. Sta. No. 38, 724, Adj., 1903".....	724. 264
Worthington, in Campbellite Church; aluminum tablet stamped "694, Adj., 1903".....	694. 848
Goshen, in Presbyterian Church; aluminum tablet stamped "699, Adj., 1903".....	699. 241
Skylight, 0.1 mile west of, on west side of road nearly opposite house on east side, in ledge of rock; aluminum tablet stamped "704, Adj., 1903"....	704. 041

LAGRANGE QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 85° 30'-85° 45'.]

At Westport.

NOTE.—These elevations are determined by single-line offsets from main level lines.

Westport, northeast corner of public-school grounds; iron post stamped "Prim. Trav. Sta. No. 40, 486, Adj., 1903"	486. 727
Westport, 350 feet north of road to Ohio River, in root on south side of pine tree; spike (U. S. Corps of Engineers b. m. 577 A)	446. 514

East Cincinnati and West Cincinnati quadrangles.

BOONE AND KENTON COUNTIES.

The elevations in the following list are based on the bench mark "T" at Cincinnati, established by the Coast and Geodetic Survey, consisting of a copper-bolt projection fixed in the west side of the courthouse, on the north side of the south door, about 2 feet above pavement, the elevation of which is now accepted as 546.537 feet. (Refer to Bulletins 411 and 476 for additional elevations in Ohio in these quadrangles.)

The leveling was done in 1898 by Ralph Stewart.

EAST CINCINNATI QUADRANGLE.

[Latitude 39°-39° 15'; longitude 84° 15'-84° 30'.]

At Fort Thomas.

Fort Thomas, east side of foundation of tower; aluminum tablet stamped "852, Cin".....	Feet. 851. 577
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WEST CINCINNATI QUADRANGLE.

[Latitude 39°-39° 15'; longitude 84° 30'-84° 45'.]

From Florence to point near Covington.

Florence, southwest corner of intersection of Burlington and Lexington pikes, southeast corner coping of foundation of red brick building; aluminum tablet stamped "936, Cin".....	935. 191
Burlington, near northwest corner of foundation of courthouse; aluminum tablet stamped "848, Cin".....	847. 386
Covington, 1.5 miles southwest of, on Lexington Pike, 20 feet east of northwest corner, in coping stone of foundation; aluminum tablet stamped "894, Cin".....	893. 115

Daysville, Drakesboro, Dunmor, Glenmore, Little Muddy, Russelville, and Salmons quadrangles.

BUTLER, LOGAN, MUHLENBURG, TODD, AND WARREN COUNTIES.

The elevations in the following list are based on elevations of bench marks in adjoining quadrangles.

The leveling was done in 1911 by E. C. Bibbee.

DUNMOR QUADRANGLE.

[Latitude 37°-37° 15'; longitude 86° 45'-87°.]

From Drakesboro along highway east to Rochester, thence south to point 4 miles south of Quality.

Drakesboro, inside picket fence, 3 feet north of northeast corner of police station at cross street, 50 feet east of railroad; aluminum tablet stamped "Prim. Trav. Sta. No. 9, 1908, 398, Ky".....	Feet. 398. 066
Browder, railroad crossing near station; top of rail.....	419. 2
Browder, 0.8 mile east of, 20 feet south of large barn at Y road; highest point on limestone rock on north side of road.....	427. 53
Browder, 1.4 miles east of, at southwest corner of T road south, 1,000 feet west of Garley Ryan's residence; iron post stamped "419, Ky".....	419. 260
Ennis, 0.8 mile west of, on corner stone rock 18 inches above ground in center of road at T road south; chiseled square.....	446. 33
Ennis, in northeast corner of J. Canfield's yard, 61 feet south of gin store; iron post stamped "458, Ky".....	458. 048
Ennis, 0.9 mile east of, in front of William Knight's blacksmith shop and store; bolthead in top of white-oak stump.....	451. 88
Ennis, 2.1 miles east of, on south side of road, 25 feet east of Y road south, 200 feet east of Quinn Fleming's residence; iron post stamped "464, Ky".....	464. 685
Ennis, 2.7 miles east of, 25 feet east of T road north, 300 feet east of Jacob Robison's residence; bolthead in top of white-oak stump in road, on south side.....	470. 48
Rochester, southeast edge of, on Morgantown-Rochester road, at crossroads, in northwest corner of front yard of J. A. Marvin's residence; iron post stamped "Prim. Trav. Sta. No. 17, 1907, 450, Ky".....	450. 610

Rochester, 1.9 miles south of, on north side of road, 100 feet west of intersection of Morgantown-Rochester road with Rochester-Russellville road; bolthead in south root of black-oak tree.....	Feet. 487. 55
Huntsville, 0.8 mile north of, on west side of road, at crest of hill, 500 feet south of Miffords Branch (creek); chiseled square on large sandstone rock.....	479. 63
Huntsville, in southeast corner of front yard of Henry Vaughn's house, in northwest corner of crossroads; iron post stamped "548, Ky".....	548. 240
Huntsville, 1.2 miles south of, on south side of road opposite residence of R. E. Brown; bolthead in root of hickory tree.....	419. 80
Huntsville, 2 miles south of, on west side of road, 265 feet south of Deer Lick Creek, about 500 feet south of G. W. Brown's residence; chiseled square on limestone ledge.....	443. 48
Huntsville, 2.7 miles south of, on east side of road near crest of large hill; highest point on large conglomerate rock.....	555. 76
Huntsville, 3.8 miles south of, at forks of road in northwest corner of Mt. Zion schoolhouse yard; iron post stamped "597, Ky".....	597. 002
Quality, 1.6 miles north of, on west end of approach to small bridge over creek, at north side; chiseled square.....	424. 60
Quality, 0.7 mile north of, 200 feet south of crest of hill, 8 feet west of wagon road; chiseled square on large red sandstone rock.....	617. 40
Quality, 60 feet north of post office, at T road west; in northeast corner of John Harper's front yard; iron post stamped "503, Ky".....	503. 470
Quality, 0.4 mile south of, on east side of road, 35 feet south of lane leading to John Fellow's residence; highest point on white marble gravestone under fence.....	481. 03
Quality, 1.4 miles south of, on north end of retaining wall, at east side, 9 feet north of northeast corner of small bridge; chiseled square.....	451. 18
Quality, 2.4 miles south of, on south abutment of bridge over Delhams Creek, at west side; chiseled square.....	451. 21
Quality, 4 miles south of, on north side of road, 430 feet east of ford over Delhams Creek, 0.7 mile west of Mt. Zion negro church and schoolhouse; chiseled square on limestone ledge.....	485. 75

From Diamond Springs north along Louisville & Nashville R. R. to Penrod.

Diamond Springs, in front of hotel, 5 feet north of road, 55 feet north of bridge across creek; copper nail in root of beach tree.....	429. 13
Diamond Springs, 0.3 mile west of post office, at crossroads, on south end of bridge abutment, at east side; chiseled square on coping stone.....	412. 89
Diamond Springs, 150 feet west of post office, on railroad right of way, at road crossing; iron post stamped "424, Ky".....	424. 004
Dunmore, in east face of northeast corner of Farmers' Bank Building; aluminum tablet stamped "Prim. Trav. Sta. No. 8, 1908, 593, Ky".....	592. 982
Dunmore, 1.6 miles north of, 11 feet west of railroad, 20 feet east of public road; copper nail in top of post.....	495. 73
Penrod, 40 feet north of post office, on railroad right of way, 25 feet west of main track; iron post stamped "427".....	427. 265

From point 4 miles south of Quality southwest to Lewisburg, thence north along Louisville & Nashville R. R. to Diamond Springs. (Portion of line.)

Lewisburg, 6.1 miles east of, on north side of road at crest of hill; chiseled square on limestone ledge.....	550. 77
Lewisburg, 5.1 miles east of, on north side of road, 1 foot south of fence; bolthead in top of white-oak stump.....	551. 15
Lewisburg, 3.7 miles east of, in forks of road, 120 feet east of negro cabin; iron post stamped "497, Ky".....	497. 474

Lewisburg, 3.5 miles east of, on south side of road at T road south; chiseled square on limestone ledge.....	Feet. 464. 78
Lewisburg, 1.6 miles north of, on north end of trestle over Mud River (bridge No. 33), at east side; first drift bolthead.....	421. 77
Diamond Springs, 150 feet west of post office, on railroad right of way, at railroad crossing; iron post stamped "424, Ky".....	424. 004

From point 2 miles south of Rochester east along highway to point 1.4 miles east of Dunbar.

Rochester, 2.9 miles southeast of, on Rochester-Morgantown road, on south side, 200 feet west of T road north, 60 feet west of A. Jenkinson's residence; iron post stamped "554, Ky".....	553. 938
Rochester, 4.1 miles southwest of, on south side of road, near small bridge; chiseled square on rock.....	438. 93
South Hill, 0.6 mile west of, in southeast corner of crossroads; bolthead in root of white-oak tree, painted.....	472. 21
South Hill, 100 feet west of post office, opposite T road south; iron post stamped "546, Ky".....	546. 340
South Hill, 0.2 mile east of, 20 feet south of public road, 7 feet north of drive to M. E. Church (log); nailhead in root of black-oak tree.....	519. 19
South Hill, 1.2 miles east of, 7 feet south of wagon road; bolthead in root of 2-foot white-oak tree.....	459. 46
Dunbar, northeast corner of Baptist Church, 28.1 feet west of post office; iron post stamped "466, Ky".....	466. 61
Dunbar, 1.4 miles east of, on southeast corner of T road south; bolthead in root of black-oak tree.....	454. 90

From point near Pauline west to point 4 miles south of Quality.

Pauline, 1.6 miles north of, in center of road on Logan-Butler County line; bolthead in root of oak tree about 4 feet in diameter.....	533. 05
Pauline, 40 feet southeast of southeast corner of post office building; highest point on limestone rock.....	570. 72
Costelow, 1.5 miles north of, 0.8 mile south of Pauline, 35 feet west of small stream, 80 feet south of Mass blacksmith shop, on east side of road opposite junction; iron post stamped "Prim. Trav. Sta. No. 9, 1909, 496, Ky".....	496. 775
Mass blacksmith shop, 1.6 miles west of, on south side of road, 90 feet west of old barn; highest point on limestone rock.....	467. 73
Anderson, 1.2 miles east of, in forks of road opposite residence of Monroe Belcher; bolthead in root of black-oak tree.....	581. 01
Anderson, at southwest corner of T road south, 800 feet north of post office, 250 feet west of church, 2 feet northwest of northwest corner of old blacksmith shop; iron post stamped "637, Ky".....	637. 168
Anderson, 0.8 mile west of, 11 feet south of center of public road; bolthead in top of 28-inch white-oak stump.....	540. 89
Anderson, 2.3 miles west of, on south side of public road, 4 feet east of wheel track, about 1,200 feet northwest of Gum Springs schoolhouse; bolthead in root of 2-foot hickory tree.....	555. 19
Zion Baptist Church (negro), at southeast corner of, 300 feet northeast of forks of road; iron post stamped "Prim. Trav. Sta. No. 10, 1909, 594, Ky".....	594, 150
Quality, 4 miles south of, on north side of road, 430 feet east of ford over Delhams Creek, 0.7 mile west of negro church and schoolhouse; chiseled square on limestone ledge.....	485. 75

LITTLE MUDDY QUADRANGLE.

[Latitude 37°-37° 15'; longitude 86° 30'-86° 45'.]

From point near Dunbar along highway east to Morgantown, thence northwest to Logansport.

Morgantown, 3.3 miles west of, in forks of Morgantown and Mining City roads, 275 feet east of Pleasant Rock Church; iron post stamped "614 Ky".	Feet. 614. 479
Morgantown, 2.9 miles west of, on south side of road; chiseled square on sandstone ledge.....	518. 67
Morgantown, 1.5 miles southwest of, at northeast corner of small bridge over creek; chiseled square on stone.....	421. 62
Morgantown, in northwest corner of courthouse yard; iron post stamped "573, Ky"	573. 129
Morgantown, 1.6 miles northwest of, on south side of road near large barn; nailhead in root of white-oak tree.....	508. 56
Morgantown, 2 miles northwest of, at forks of road at southwest corner of yard; bolthead in root of sassafras tree.....	647. 08
Morgantown, 2.9 miles northwest of, in front yard of High Hill schoolhouse, 21 feet north of public road; iron post stamped "635, Ky"	635. 266
Morgantown, 4.2 miles northwest of, on south side of road; highest point on large conglomerate rock.....	556. 33

From Morgantown south along highway to Pauline.

Morgantown, 1.8 miles south of, on west side of road, 100 feet north of bottom of steep hill; chiseled square on sandstone ledge.....	453. 35
Morgantown, 2.8 miles south of, at forks of Morgantown-Russellville and Morgantown-Bowling Green roads; iron post stamped "428, Ky"	428. 822
Davenport, at southeast corner of Robert Smith's gin store; chiseled square on foundation stone.....	460. 55
Davenport, 1 mile southwest of, on north side of road, in center of T road north; bolthead in top of white-oak stump 3 feet in diameter.....	688. 18
Dimple, 2.8 miles north of, 1,800 feet north of church, in center of triangle, at junction of roads; iron post stamped "Prim. Trav. Sta. No. 12, 1909, 597, Ky"	597. 373
Dimple, 1.8 miles north of, on east side of road, at private road crossing; bolthead in root of black-oak tree 2 feet in diameter.....	597. 20
Dimple post office, 700 feet south of, on east side of road near the southeast corner of T road east; bolthead in root of poplar tree 18 inches in diameter.	467. 56
Dimple, 0.8 mile south of, at building known as Brick House in southwest corner of crossroads; iron post stamped "511, Ky"	510. 989
Dimple, 1.8 miles south of, on south side of road, on crest of hill opposite negro church and schoolhouse; bolthead in root of white-oak tree 16 inches in diameter.....	603. 08
Flatrock, 0.2 mile north of, in fork of Morgantown-Russellville and Rochester-Russellville roads; chiseled square on limestone.....	548. 92
Davis Crossroads, at northeast corner of intersection of Russellville-Greenville and Bowling Green-Greenville roads, 75 feet west of Geo. Davis's house; iron post stamped "634, Ky"	634. 394

From Davis Crossroads southeast about 4 miles to point 0.8 mile northwest of Cave Hill, thence north and west along highways via Johnsons store to Morgantown.

Davis Crossroads, 1.45 miles southeast of, at forks of road north; nailhead in top of 30-inch white-oak stump	689. 19
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Cave Hill, 2.9 miles northwest of, on east side of road, opposite residence of John Marlin; nail in root of white-oak tree.....	Feet. 717. 57
Cave Hill, 1.7 miles north of, 60 feet south of residence of Dick Bailey, 300 feet north of T road west, on west side of road, in limestone ledge; aluminum tablet stamped "613, Kentucky".....	612. 875
Cave Hill, 0.8 mile north of, in front of residence of James Tompson; chiseled square on step.....	624. 30
Cave Hill, 1.5 miles northeast of, on south side of road at T road east; nailhead in root of elm tree.....	619. 90
Cave Hill, 2.5 miles northeast of, on north side of road at private lane north, 10 feet south of property line; nailhead in top of white-oak stump.....	645. 01
Cave Hill, 3 miles northwest of, 1.2 miles north of Cohron post office, in corner of yard at southwest corner of T road south; iron post stamped "662, Kentucky".....	662. 346
Hadley, 1.8 miles west of, 20 feet south of road, near southeast corner of T road south; nailhead in root of maple tree.....	462. 85
Hadley, 0.8 mile west of, on north side of road; chiseled square on sandstone rock.....	639. 78
Hadley, 125 feet east of post office, in northeast corner of Dr. Bush's yard; iron post stamped "659, Kentucky".....	658. 824
Rockland, 1.6 miles west of, on south side of road at Y road; bolthead in root of beech tree.....	641. 86
Rockland, 1,200 feet north of post office, on top of hill, in front of Cole's store, at southwest corner of T road west; iron post stamped "665, Kentucky".....	665. 028
Rockland, 1.3 miles north of, at northeast corner of T road east; chiseled square on stone in retaining wall.....	484. 16
Rockland, 1.6 miles north of, on west side of wheel guard of iron bridge over Clifty Creek; second bolthead from south end.....	414. 19
Rockland, 2.4 miles north of, in southwest corner of Bennett Chapel; iron post stamped "519, Kentucky".....	519. 337
Rockland, 3.2 miles northwest of, 400 feet north of ford over Maxey Creek, on east side of road; chiseled square on sandstone rock.....	419. 10
Little Muddy, 2.6 miles southeast of, on north side of road, near property line at private lane west; nailhead in root of elm tree.....	473. 09
Little Muddy, 2.1 miles southeast of, on south side of public road, near Warren-Butler county line, 600 feet north of A. C. Chapman's residence; iron post stamped "458, Kentucky".....	458. 095
Little Muddy, 1 mile southeast of, on east property line in front of residence of C. R. Wiley; bolthead in root of elm tree.....	469. 38
Little Muddy, 0.2 mile south of, at southeast corner of T road east; chiseled square on curbstone of well.....	453. 15
Little Muddy, 300 feet south of post office, in northeast corner of C. M. Cole's garden; iron post stamped "468, Kentucky".....	467. 793
Woodbury, 2.25 miles south of, on northwest corner of bridge over Little Muddy Creek; first bolthead in wagon guard.....	409. 35
Woodbury, about 0.5 mile east of, 175 feet southeast of junction of Barren and Green rivers, on property line on south side of public road, in front of ferryman's residence; iron post stamped "412, Kentucky".....	411. 727
Johnsons Store, 0.9 mile south of, 100 feet northwest of Leonard Oak schoolhouse, on south side of road; chiseled square on sandstone rock.....	642. 19
Johnsons Store, 30 feet north of, in northeast corner of garden, at Y road; iron post stamped "647, Kentucky".....	646. 860

Johnsons Store, 0.8 mile northwest of, on south side of road near old house; chiseled square on large rock.....	Feet. 604. 35
Morgantown, 1.4 miles north of, at west end of large iron bridge over Welsh Creek in Green River bottoms, on north side; chiseled square on retaining wall.....	409. 18
Morgantown, in northwest corner of courthouse yard; iron post stamped "573, Kentucky".....	573. 129

From point near Cave Hill southwest along highways to Gasper Ford.

Cave Hill, 4 feet north of northeast corner of porch to post office; chiseled square on limestone rock.....	659. 60
New Gasper Church, 1,500 feet south of, at corner of wire fence, 20 feet north of crossroads, about 1.5 miles north of Galloway's mill; iron post stamped "Prim. Trav. Sta. No. 8, 1909, 676, Kentucky".....	676. 021
Cave Hill, about 3½ miles southeast of, on west bank of Gasper River, at Gasper Ford; bolthead in root of elm tree.....	456. 54

From point 7 miles south of Greencastle north along highways to point 1.5 miles south of Greencastle.

Greencastle, 7 miles south of, in forks of road; bolthead in root of 20-inch black-oak tree.....	763. 93
Greencastle, 5.6 miles south of, on north side of road, in corner of field at T road south, 300 feet northeast to residence of Grunda Davison; iron post stamped "740, Kentucky".....	740. 751
Greencastle, 4.8 miles south of, 150 feet north of John Westbrook's residence, at northeast corner of T road west; bolthead in root of black-oak tree.....	720. 62
Greencastle, 3.4 miles south of, in forks of pike, 0.4 mile north of Barren River Church; iron post stamped "669, Kentucky".....	668. 835
Greencastle, 2.7 miles south of, on west side of road, in front of house, 55 feet north of T road west; bolthead in root of cedar tree.....	584. 21
Greencastle, 1.5 miles south of, 15 feet east of center of pike; chiseled square on brown limestone rock.....	490. 41

From point 2.7 miles west of Vineyard west along highways to Johnsons Store.

Vineyard, 2.7 miles west of, 37 feet west of intersection of Y roads; bolthead in root of hickory stump.....	638. 51
Vineyard, 5.1 miles west of, at southeast corner of Cedar Grove schoolhouse yard; iron post stamped "642, Kentucky".....	642. 664
Johnsons Store, 1.8 miles northeast of, on west side of road, 200 feet south of Y road; bolthead in top of 24-inch black-oak stump.....	707. 66
Johnsons Store, 30 feet north of, in northeast corner of garden at Y road; iron post stamped "647, Kentucky".....	646. 860

GLENMORE QUADRANGLE.

[Latitude 37°-37° 15'; longitude 86° 15'-86° 30'.]

From Greencastle north along highways via Threlkel to Vineyard, thence west to Minnie Grove.

Greencastle, 80 feet south of post office, in corner of field, 2 feet west by 2 feet north of property corner; iron post stamped "424, Kentucky".....	424. 397
Greencastle, 1 mile north of, 300 feet southwest of T. Miller's residence; chiseled square on limestone rock.....	444. 40
Richardsville, at residence of Dr. Struthers, opposite post office, on foundation of retaining wall of yard; chiseled square.....	686. 15

Richardsville, 1 mile north of, 25 feet west of north-south road, at corner of fence; iron post stamped "Prim. Trav. Sta. No. 6, 1909, 560, Kentucky".	Feet. 560. 332
Richardsville, 1.9 miles north of, on west side of road, near property line; chiseled square on limestone ledge.	559. 75
Richardsville, 3 miles north of, at southeast corner of T road east; bolthead in top of post.	576. 23
Long, 2 feet south of southeast corner of post office; iron post stamped "618, Kentucky".	618. 332
Threlkel, 1.8 miles south of, 20 feet north of intersection of Y roads, on ridge; bolthead in root of black-oak tree.	660. 56
Threlkel, 100 feet southwest of post office, at northeast corner of dwelling; iron post stamped "429, Kentucky".	429. 597
Threlkel, 0.8 mile north of, in forks of road, 700 feet south of New Bethany Church; bolthead in root of sycamore tree.	611. 24
Threlkel, 2 miles north of, 15 feet east of center of public road; chiseled square on northwest corner of foundation of Silas Phelps's store.	430. 14
Vineyard, 1.3 miles south of, in northwest corner of P. C. Smith's garden, 25 feet east of center of public road; iron post stamped "430, Kentucky".	429. 978
Vineyard, 0.2 mile east of, 26 feet west of southeast corner of T road west; chiseled square on sandstone rock.	444. 15
Vineyard, 1 mile west of, on south side of road, at second-class road south; bolthead in top of 12-inch black-oak stump 3 feet above ground.	525. 74
Vineyard, 1.7 miles west of, 100 feet south of Whillinghill store, in northeast corner of yard in forks of road, known as "Minnie Grove"; iron post stamped "629, Kentucky".	628. 937

SALMONS QUADRANGLE.

[Latitude 36° 45'-37°; longitude 86° 30'-86° 45'.]

From point 4.4 miles west of Kuykindall's store east to same, thence 0.6 mile north to crossroads.

Kuykindall's store, 4.4 miles west of, on south side of road at forks, 0.6 mile east of Gasper Ford; iron post stamped "513, Kentucky".	513. 711
Kuykindall's store, 3.1 miles west of, on north side of road, 75 feet east of negro cabin; chiseled square on limestone rock in ledge.	520. 52
Kuykindall's store, 1.5 miles west of, in forks of road, on top of hill, 100 feet north of C. W. Crooper's gin store; bolthead in root of black-oak tree.	749. 61
Kuykindall's store, 5 miles northwest of Bowling Green, 10 feet south of southeast corner of W. E. Kuykindall's store, 40 feet west of junction of pikes; iron post stamped "Prim. Trav. Sta. No. 7, 543, Kentucky, 1909".	543. 055
Bowling Green, 4.4 miles northwest of, 0.6 mile west of Kuykindall's store, 4 feet south of south wheel track, 20 feet southwest to twin cedar at crossroads; chiseled square on limestone rock.	665. 92

RUSSELLVILLE QUADRANGLE.

[Latitude 36° 45'-37°; longitude 86° 45'-87°.]

Elevations at and near Lewisburg.

Lewisburg, 2.7 miles east of, on southeast corner of retaining wall to approach of Sutton's bridge over Mud River; chiseled square.	428. 36
Lewisburg, 1.8 miles east of, at southeast corner of crossroads, 1,300 feet east of forks of Lewisburg-Rochester and Lewisburg-Morgantown roads; iron post stamped "476, Ky."	475. 665

Lewisburg, 500 feet northwest of station, north side of road, in southeast corner of front yard of Arnold Hotel, 180 feet west of Louisville & Nashville R. R.; iron post stamped "Prim. Trav. Sta. No. 11, 496, Ky., 1909".....	Feet. 496.214
Lewisburg, 0.5 mile north of, on limestone ledge on west side of Louisville & Nashville R. R., opposite milepost; chiseled square marked "L 155 O 50".....	472.63

DAYSVILLE QUADRANGLE.

[Latitude 36° 45'-37°; longitude 87°-87° 15'.]

Elevations at and near Clifty.

Clifty, in front of Baptist and Christian Church, on east side of road; iron post stamped "805, Ky.".....	804.858
Clifty, 1.2 miles west of, 6 feet south of public road, opposite T road north; copper nail in root of hickory tree.....	807.98
Clifty, 2 miles west of, in front of residence of J. S. Wallis; copper nail in root of black-oak tree.....	815.08

DRAKESBORO QUADRANGLE.

[Latitude 37°-37° 15'; longitude 87°-87° 15'.]

From Depoy east along Illinois Central R. R. 1 mile, thence south along highway to Bancroft.

Depoy, 0.9 mile east of Illinois Central R. R. station, inside right of way, about 60 feet to center of road crossing over railroad tracks; iron post stamped "507".....	506.907
Depoy, about 3.5 miles southeast of, 75 feet to center of road, north side, 80 feet east of white-oak tree; iron post stamped "545".....	544.841
Bancroft, about 1.2 miles east of, on south side of road at T road north; spike in top of stump.....	496.97
Bancroft, about 0.8 mile east of, on south side of road, 15 feet to center; top of stone.....	538.48
Bancroft, 75 feet west of Harris & Co.'s store, 20 feet west of center of road; iron post stamped "485".....	485.567

From point near Depoy east along road to Drakesboro, thence northwest along Louisville & Nashville R. R. to Cleaton.

Greenville, 0.7 mile west of, on north side of road, at intersection of Greenville-Darkmansville road with Greenville-Depoy road; nail in root of wild-cherry tree.....	565.07
Greenville City Hall, in southwest corner of foundation; aluminum tablet stamped "538".....	538.406
Greenville, 1.1 miles east of, 45 feet east of first bridge, 6 feet north of wagon road; copper nail in top of white-oak stump.....	425.00
Greenville, 2.6 miles east of, at T road south; copper nail in top of white-oak corner post.....	427.52
Greenville, 2.6 miles east of, at southwest corner of T road south; iron post stamped "423".....	423.815
Greenville, 3.6 miles east of, on north side of road, at private road south, 400 feet east of creek; copper nail in top of white-oak post.....	410.77
Greenville, 4.6 miles east of, on north side of wagon road, 40 feet west of bridge over Pond creek, at T road south; chiseled square on large sandstone rock.....	402.92
Greenville, 6.1 miles east of, at northwest corner of Ebenezer Church, 125 feet southeast of crossroads; iron post stamped "535".....	535.705

Drakesboro, 1.5 miles west of, in southwest corner of T road south; copper nail in root of black-oak tree.....	Feet. 503.55
Drakesboro, inside picket fence, 3 feet north of northwest corner of police station, at cross streets, 50 feet east of railroad; aluminum tablet stamped "Prim. Trav. Sta. No. 9, 1908. 398".....	398.056
Elk Valley station, 15 feet east of railroad track, in southwest corner of foundation of telephone booth; copper nail.....	406.31
Bevier, 3 miles south of, 7 feet east of railroad, 17 feet north of railroad crossing; chiseled square on stone.....	408.24
Cleaton station, 90 feet east of, at southeast corner of culvert, in bottom stone; aluminum tablet stamped "444".....	443.083

From Greenville south along road to Kirkmansville, thence west to county line.

Greenville, 1.8 miles southwest of, on east side of road, 25 feet southwest of old coal mine; copper nail in root of white-oak tree.....	477.28
Greenville, 2.6 miles southwest of, on south side of public road, 25 feet east of Y road; copper nail in root of black-oak tree.....	608.95
Greenville, 3.2 miles southwest of, at northeast corner of T road, 900 feet west of Friendship Church and schoolhouse, in southwest corner of Francis Miles's yard; iron post stamped "579".....	579.357
Greenville, 3.8 miles southwest of, at northeast corner of bridge over Pond Creek; chiseled square on large flat rock.....	451.62
Greenville, 5 miles southwest of, on west side of road opposite residence of W. H. Metzker; copper nailhead in top of white-oak stump.....	561.56
Greenville, 5.6 miles southwest of, on Wier road, 12 feet west of center of public road, at south corner of W. G. Lee's garden; copper nailhead in root of twin oak tree.....	572.28
Weir, in front yard of residence of F. K. Jameson, 45 feet from southeast corner of dwelling, 78 feet from southeast corner of general store and post office, in sandstone; aluminum tablet stamped "Prim. Trav. Sta. No. 4, 1908. 628".....	629.204
Wier, 1.2 miles southwest of, on Kirkmansville road, 15 feet east from center of wagon road; copper nail in top of white oak stump 10 feet in circumference.....	455.63
Wier, 2 miles south of, at north end of bridge over Long Run, on east wing; chiseled square.....	429.36
Wier, 3.5 miles south of, in front of Long Star Church; iron post stamped "607".....	607.145
Wier, 4.9 miles south of, on west side of road, 1,200 feet north of crossway ford, 100 feet south of T road; copper nail in root of sycamore tree.....	421.23
Wier, 6.4 miles south of, east side of iron bridge over Pond River; chiseled square on north abutment.....	426.73
Wier, 7.9 miles south of, on west side of road, 150 feet north of T road, 5.3 miles south of iron bridge over Pond River; iron post stamped "464".....	463.834
Kirkmansville, 2.4 miles north of, 9 feet west of center of road at small stream crossing; chiseled square on limestone rock.....	439.21
Kirkmansville, 0.6 mile north of, 10 feet west of center of public road; copper nail in root of elm tree.....	438.61
Kirkmansville, 900 feet north of center of town, on west side of Greenville-Kirkmansville road, 200 feet north of crest of hill, in sandstone ledge; aluminum tablet stamped "Prim. Trav. Sta. No. 5, 1908. 475".....	475.515

From Greenville southeast along road to Clifty, thence west to Kirkmansville.

Greenville, in southwest corner of foundation of courthouse; aluminum tablet stamped "538, Ky".....	Feet. 538.406
Greenville, 1 mile south of, 17 feet north of center of public road, on top of hill; copper nail in root of white-oak tree.....	571.09
Greenville, 2.7 miles south of, on Elkton road, in front of Pleasant Hill Church; iron post stamped "536, Ky".....	536.742
Greenville, 5.3 miles south of, on east side of building in north fork of Elkton road; chiseled square in foundation stone.....	417.00
Greenville, 5.3 miles south of, in north fork of upper and lower Elkton roads, on east side of store; iron post.....	417.317
Greenville, 6 miles south of, on lower Elkton road, in northeast corner of Carters Creek Church lot, 25 feet east of center of road; copper nail in top of black-oak stump.....	561.45
Greenville, 6.7 miles south of, on lower Elkton road, on east side of road; copper nail in top of black-oak stump.....	525.42
Greenville, 8.4 miles south of, 2.5 miles west of Rosewood and Cisley post office, at southeast corner of T road; iron post stamped "495, Ky".....	495.044
Greenville, 9.5 miles south of, 10 feet east of center of road, 75 feet north-east of R. J. Jenkins's store; copper nail in root of black-oak tree.....	602.27
Greenville, 11.1 miles south of, on lower Elkton road, 35 feet north of north-east corner of crossroads; copper nail in root of walnut tree.....	686.63
Greenville, 11.6 miles south of, on lower Elkton road, in foundation stone of north chimney on west side of N. A. Shulte's residence; aluminum tablet stamped "725, Ky".....	725.169
Greenville, 12.4 miles south of, 11 feet east of public road, in front of residence of Elard Gragery; chiseled square in sandstone retaining wall...	736.67
Greenville, 13.1 miles south of, on lower Elkton road, at the northwest corner of New Harmony schoolhouse and church yard; copper nail in root of hickory tree.....	682.15
Greenville, 13.8 miles south of, on lower Elkton road, 7 feet north of center of public road; copper nail in top of 36-inch white-oak stump.....	697.44
Greenville, 14.7 miles south of, on lower Elkton road, at northeast corner of T road east; chiseled square on stone.....	750.41
Clifty, 3.7 miles west of, opposite residence of C. J. Mansfield, on west side of road, 150 feet east of small cemetery; iron post stamped "492 Ky".....	492.053
Kirkmansville, 1.6 miles west of, in front of residence of J. R. Heltsley, 100 feet west of public road; chiseled square on top of limestone rock.....	466.24

From point near Clifty east along road to Diamond Springs, thence north along Louisville & Nashville R. R. to Drakesboro.

Clifty, 2.5 miles northeast of, 15 feet east of intersection of road forks, 700 feet east of large barn of Marvin McElvin, in stone post; aluminum tablet stamped "Prim. Trav. Sta. No. 7, 790".....	790.792
Clifty, 3.2 miles east of, on Deerlick road, 35 feet south of crest of hill in front of residence of Clyde Powell; copper nail in root of 12-inch black-oak tree.....	763.59
Clifty, 4.2 miles east of, opposite T road south, 100 feet south of McElvin cemetery; iron post stamped "707, Ky".....	707.199
Deerlick, 2.8 miles west of, on north side of road at T road north; copper nail in root of cedar tree.....	688.49
Deerlick, 1.5 miles west of, at northeast corner of T road south; copper nail in root of sycamore tree.....	713.79

Deerlick, 1 mile west of, 15 feet north of public road at T road south, 85 feet southeast of Methodist Chapel; copper nail in root of white oak tree.	Feet. 731. 01
Deerlick, northeast corner of Baptist Church lot, 450 feet east of post office and T road north; iron post stamped "683, Ky".....	683. 401
Deerlick, 0.7 mile east of, in center of road, 0.3 mile east of Ashler school-house; copper nail in root of 24-inch black-oak tree.....	666. 38
Deerlick, 1.4 miles east of, on north side of road, at large poplar tree, 240 feet southeast of James Wisecarver's residence; chiseled square on large sandstone rock.....	610. 60
Twin Tunnel station, in front of, top of rail.....	500. 8
Belton, 180 feet southeast of post office, in southwest corner of hotel yard; iron post stamped "427, Ky".....	426. 992
Belton, 1.3 miles north of, south end of drain tile, 14 feet east of railroad, opposite residence of John Clearance.....	485. 90
Browder, 0.3 mile south of, on north abutment of bridge at east side; chiseled square on coping stone.....	420. 29
Browder, 0.8 mile north of, 17 feet west of south end of yard limit sign; copper nail in small culvert under railroad.....	404. 32

Central City, Earlington, Hartford, Horsebranch, Madisonville, and Whitesville quadrangles.

BUTLER, DAVIESS, HANCOCK, HOPKINS, McLEAN, MUHLENBURG, OHIO, AND WEBSTER COUNTIES.

The leveling was done in 1907 mostly by H. W. Peabody. One line in Earlington quadrangle was run by G. W. Crane.

EARLINGTON QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 87° 30'-87° 45'.]

From Providence east along highways to Madisonville.

Nebo, in west face of northwest corner of D. C. Moorow's brick store, at southwest corner of crossroads; aluminum tablet stamped "411, 1907"...	Feet. 410. 153
Manitou, 700 feet east of center of town, at southeast corner of cross roads, in west face of northwest corner pier of church; aluminum tablet stamped "428, 1907".....	427. 488

From Earlington west along highways to point 2.7 miles southwest of Dalton.

Earlington, in west face of northwest corner of Peoples Bank Building, in stone under ventilator flue; aluminum tablet stamped "423, 1907".....	422. 704
Beulah, 150 feet west of T road north, at northwest corner of Franklin's store; iron post stamped "Prim. Trav. Sta. No. 5, 540, 1907".....	540. 175
Beulah, 2.8 miles west of, north side of road, 0.25 mile east of crossroads, at east end of John McGregor's house, in south face of brick chimney; aluminum tablet stamped "512, 1907".....	512. 106

CENTRAL CITY QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 87°-87° 15'.]

From Calhoun south along highways to Sacramento.

Semiway post office, 4.5 miles south of Calhoun, in south face of southwest corner pier of post office and store building; aluminum tablet stamped "400, 1907".....	401. 070
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From point 1.2 miles north of Earles east along Kentucky Midland R. R. to Rockport.

Bethel Church, 5 miles west of Central City, northeast corner of crossroads, in south face of southwest corner of brick church building; aluminum tablet stamped "Prim. Trav. Sta. No. 7, 502, 1907"	Feet. 501.280
Central City, in west face of northwest corner of Gish Bank building; aluminum tablet stamped "427, 1907"	426.509
Nelson, 1 mile west of, 360 feet west of milepost "Louisville, 122," Illinois Central R. R. concrete bridge No. T 122 06, in bridge seat at southeast corner; aluminum tablet stamped "405, 1907"	404.316

From Livermore south along Louisville & Nashville R. R. to Central City.

Livermore, in wall of Bank of Livermore building (brick), at southwest corner, 1.9 feet from ground; aluminum tablet stamped "401, Louisville"	401.047
Island, in west end of stone box culvert about 1,200 feet south of station; aluminum tablet stamped "418, 1907"	416.956
Moorman, 0.5 mile north of, 40 feet east of wagon road, in next to top coping stone at northwest corner of small stone culvert; aluminum tablet stamped "410, 1907"	409.286
South Carrollton, on west side of M. E. Church, in foundation pier next to southwest corner; aluminum tablet stamped "457, 1907"	456.581

From Central City south along Louisville & Nashville R. R. to Cleaton, thence east along highways to Paradise.

Cleaton, 90 feet east of station, in bottom stone at southeast corner of culvert; aluminum tablet stamped "444, 1907"	443.083
Mount Carmel Church, 3 miles west of Paradise, in south face of southeast corner foundation pier of church; aluminum tablet stamped "504, 1907"	503.295

From Heflin south along highways to Centertown.

James Hill on Knott's Ferry road, 4 miles northwest of Centertown, 3.5 miles south of Heflin, west side of road on top of hill, in top of sandstone bluff; aluminum tablet stamped "507, 1907"	506.411
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HARTFORD QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 86° 45'-87°.]

From Centertown south along highways to Rockport, thence east along Kentucky Midland R. R. to Rosine.

Centertown, in south face of southeast corner of Dr. Chapman's brick block; aluminum tablet stamped "447, 1907"	446.686
West Providence Church, 3 miles north of Rockport, at northeast corner of church; iron post stamped "Prim. Trav. Sta. No. 12, 477, 1907"	476.393
Rockport, in west face of northwest corner of Rockport Deposit Bank building; aluminum tablet stamped "437, 1907"	436.320
Rockport, in front of station; top of north rail	407.0
Simmons, 1 mile west of, in top of parapet wall at southwest corner of bridge over Lewis Creek; aluminum tablet stamped "405, 1907"	404.309
Simmons, at station, top of rail	406.0
McHenry, in west face of southwest corner of Odd Fellows and Red Men Hall; aluminum tablet stamped "428, 1907"	426.988
Render station, road crossing; top of rail	445.5
Beaver Dam, in west face of southwest corner of Peoples Bank building; aluminum tablet stamped "414, 1907"	413.353

Beaver Dam, 3 miles east of, 1,260 feet east of road crossing, in bridge seat at southwest corner of bridge over Slough Creek; aluminum tablet stamped "410, 1907".....	Feet. 409. 038
Horton, 100 feet west of station, in top of northeast corner of stone pier of water tank; aluminum tablet stamped "428, 1907".....	427. 169

From Logansport west along highways to Paradise.

New Point Pleasant Church, in north face of northwest corner of foundation pier of church; aluminum tablet stamped "461, 1907".....	460. 177
Cool Springs Church, in west face of northwest corner foundation pier; aluminum tablet stamped "577, 1907".....	576. 308
Wysox, at northeast corner of crossroads, in west face of southwest corner foundation pier of Pleasant Valley Church; aluminum tablet stamped "402, 1907".....	400. 845
Paradise, in northeast corner of hotel yard; iron post stamped "Prim. Trav. Sta. No. 11, 409, 1907".....	408. 031

From Logansport north to Mount Pleasant Church.

Cromwell, 75 feet west of school building, in stone block in front of T. C. Pirtle's store; aluminum tablet stamped "485, 1907".....	482. 764
Bald Knob Church, at southeast corner of; iron post stamped "Prim. Trav. Sta. No. 15, 550, 1907".....	549. 547

HORSEBRANCH QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 86° 30'-86° 45'.]

From Mount Pleasant Church north along highways to Mount Vernon Church.

Mount Pleasant Church, 3 miles south of Rosine, in west face of northwest corner of foundation pier; aluminum tablet stamped "578, 1907".....	577. 114
Rosine, northwest corner of road forks, in foundation, center of south side of J. T. Allen's store; aluminum tablet stamped "565, 1907".....	563. 939

At Logansport.

Logansport post office, at northwest corner of Lebanon Church; iron post stamped "Prim. Trav. Stat. No. 16, 472, 1907".....	470. 783
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MADISONVILLE QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 87° 15'-87° 30'.]

From Slaughterville south along Louisville & Nashville R. R. to Earlington.

Slaughterville, at main south entrance to town-hall building, in limestone doorsill, on west side; aluminum tablet stamped "403, Adj., 1903".....	402. 887
Hanson, north side of road, 150 feet east of railroad, in south face of southwest corner of hotel building; aluminum tablet stamped "433, 1907"....	432. 503
Hanson, 2.5 miles south of, in west face of northwest corner of foundation of Mount Zion Church; aluminum tablet stamped "493, 1907".....	493. 052
Madisonville, in northwest corner of courthouse yard; iron post stamped "Prim. Trav. Sta. No. 2, 470, 1907".....	470. 249

From Earlington south along Louisville & Nashville R. R. to Mortons Gap, thence northeast along highways to Salem Church.

Barnsley, 100 feet west of Louisville & Nashville R. R., in front of St. Bernard Mining Co.'s store; iron post stamped "Prim. Trav. Sta. No. 3, 484".	483. 607
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From Salem Church northeast along highway to Earles, thence north to Sacramento, thence west to Hanson

Free Henry Ford, 1 mile west of, 6 miles northeast of Mortons Gap, in north face of northeast corner of foundation of Henry Whitefield dwelling; aluminum tablet stamped "417, 1907".....	Feet. 417. 038
Pleasant Hill Church, 4 miles west of Earles post office, in east face of southeast corner foundation pier of church; aluminum tablet stamped "608, 1907".....	608. 407
Earles post office, at southeast corner of crossroads, in foundation pier under center of west side of house of Mr. Sumners; aluminum tablet stamped "512, 1907".....	512. 216
Briar Creek Church, 3 miles north of Earles, in east face of southeast corner foundation pier of church; aluminum tablet stamped "476, 1907".....	476. 213
Sacramento, 3 miles south of, at southeast corner of road forks, in west face of southwest corner of J. M. Harned's brick house; aluminum tablet stamped "429, 1907".....	429. 936
Sacramento, 400 feet west of main street, at east corner of village school building; iron post stamped "Prim. Trav. Sta. No. 8, 497".....	497. 630
Sacramento, 4 miles west of, Tower Chapel, in north face of northwest corner of foundation pier; aluminum tablet stamped "422, 1907".....	422. 796
Hanson, 6 miles east of, 2 miles west of Pond River, in south face of southwest corner foundation pier of C. E. Eastwood's dwelling; aluminum tablet stamped "391, 1907".....	391. 523
Providence Church, 2 miles east of Hanson, in west face of southwest corner foundation pier; aluminum tablet stamped "459, 1907".....	459. 248

WHITESVILLE QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 86° 45'-87°.]

From Owensboro east along Illinois Central R. R. to Reynolds station, thence north along highways to Pellville.

Philpot, under southeast corner of J. P. Simpson's drug store, in east side of brick pillar; aluminum tablet stamped "400, Louisville".....	399. 036
O'Donnell, in front of station; top of rail.	406. 8
Shorts station (Whalen), in east face of brick chimney at east end of house, 720 feet west of road crossing, 120 feet north of track; aluminum tablet stamped "433, 1907".....	432. 143
Whitesville, 0.2 mile east of center of town, in south face of southwest corner of Baptist Church; aluminum tablet stamped "507, 1907".....	506. 312
Colliers, in front of station; top of rail.	454. 7
Deaneffeld station (Ætnaville), 0.2 mile east of railroad station, at southwest corner of road crossing, at southeast corner of store, in south face of foundation pier; aluminum tablet stamped "445, 1907".....	444. 389
Reynolds, 100 feet north of Illinois Central R. R., west side of road, at north end of W. S. Richards's house, in east face of brick chimney; aluminum tablet stamped "498, 1907".....	497. 145
Haynesville, at southeast corner of crossroads, in west face of southwest pier of church; aluminum tablet stamped "477, 1907".....	476. 371
Lyonia, at northwest corner of road forks, under east side of store, in foundation pier; aluminum tablet stamped "516, 1907".....	514. 693
Lyonia, 2 miles west by northwest of, 3 miles southeast of Pellville, in north face of northwest corner pier of Baptist Church; aluminum tablet stamped "628, 1907".....	627. 066

From Philpot south along highways to Hewlett's store, thence west to Utica.

Cane Run schoolhouse, 5.5 miles south of Philpot, at southwest corner of T road west, in north face of northeast corner foundation pier of schoolhouse; aluminum tablet stamped "427, 1907"	Feet. 425. 196
Pleasant Ridge, 1.5 miles north of, at northeast corner of road forks, in south face of brick chimney at east end of Hewlett's store; aluminum tablet stamped "429, 1907"	427. 965

From Deanefield south along highways to Magan, thence west to Hewlett's store.

Magan, 400 feet north of road forks, on west side of road, in south face of southwest corner foundation pier of church; aluminum tablet stamped "619, 1907"	617. 098
Ralph, 80 feet west of road forks, in southeast corner of iron bridge over Panther Creek, in bridge seat; aluminum tablet stamped "431, 1907" ..	429. 664
New Panther Creek Church, 4 miles south of Whitesville, in west face of northwest corner pier; aluminum tablet stamped "418, 1907"	416. 664
Bell Run (Westfield), 200 feet south of crossroads, on west side of road, northwest corner foundation pier of church, in north face; aluminum tablet stamped "465, 1907"	463. 526
Bell Run (Westfield), 3 miles west of, 3 miles east of Hewlett's store, in stone post at south side of road forks; aluminum tablet stamped "Prim. Trav. Sta. No. 2, 469, 1907"	467. 291

From Heflin east along highways to Crabtree's ferry, thence north along highways to Magan.

Beda, 400 feet east of road forks, in south face of southwest corner foundation pier of Beulah Church; aluminum tablet stamped "547, 1907"	546. 514
Washington Church, 3 miles east of Beda, in north face of northeast corner foundation pier; aluminum tablet stamped "457, 1907"	456. 478
Marvins Chapel, 1 mile south of Sunnydale, at northwest corner of church, in west face of foundation pier; aluminum tablet stamped "420, 1907" .	418. 738
Sulphur Springs, in north face of northwest corner of C. B. Bean's store; aluminum tablet stamped "419, 1907"	417. 837
Dundee, in west face of northwest corner of Dundee Deposit Bank building; aluminum tablet stamped "426, 1907"	424. 313

From Sulphur Springs south to Mount Vernon Church.

Mount Vernon Church, 1.5 miles south of Sulphur Springs, northwest corner of crossroads, southeast corner of church; iron post stamped "Prim. Trav. Sta. No. 14, 600"	599. 430
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Alzey, Calhoun, Evansville, Morganfield, Newburg, Owensboro, Providence, Sebree, Shawneetown, Sutherland, and Tell City quadrangles.**CALDWELL, CRITTENDEN, DAVIESS, HANCOCK, HENDERSON, HOPKINS, McLEAN, OHIO, UNION, AND WEBSTER COUNTIES.**

The elevations in the following list are based upon adjusted lines of precise leveling of the United States Geological Survey and the U. S. Corps of Engineers.

The leveling was done in Owensboro and Tell City quadrangles in 1900 by Dean Halford; in Henderson, Newburg, Calhoun, and Sebree quadrangles in 1902 by H. S. Lowe; in Calhoun and Sutherland quadrangles in 1903, by F. M. Goodhue; in Sebree quadrangle in

1907 by H. W. Peabody; in Morganfield, Newburg, Sebree, and Sutherland quadrangles in 1904 by L. L. Lee; in 1906, in Morganfield and Providence quadrangles by R. P. Thompson; and in Providence quadrangle by Thompson and G. W. Crane.

TELL CITY QUADRANGLE.

[Latitude 37° 45'-38°; longitude 86° 45'-87°.]

From Hawesville west along Louisville, Henderson & St. Louis Ry. to Maceo, thence to Rockport, Ind.

Hawesville, in stone foundation at southeast corner of courthouse; aluminum tablet stamped "422, Vin" (redetermined by Ohio River Survey, U. S. Corps of Engineers).....	Feet. 419. 855
Lewisport, in southeast corner of Dentin's store, 39 feet east of door step; bronze tablet stamped "393, Vin".....	394. 450

From Owensboro east to Knottsville thence northeast to Hawesville.

Knottsville, 300 feet southeast of post office, opposite hotel; iron post stamped "559, Vin".....	560. 413
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From Knottsville southeast to Pellsville. (Single-spur line.)

Pellsville, 1,000 feet east of crossroads, 10 feet south of Hardinburg road, in northeast corner of lot in which J. H. Abeuchain's house is situated; iron post stamped "531, Vin".....	533. 199
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OWENSBORO QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87°-87° 15'.]

From Maceo southwest along Louisville, Henderson & St. Louis Ry. to Stanley.

Maceo, 2.5 miles southwest of, 210 feet south of railroad bridge over Pup Creek, 20 feet west of railroad crossing, in Nat Young's field; iron post stamped "391, Vin".....	391. 694
Owensboro, in southeast corner of courthouse square, meridian mark on stone post; aluminum tablet stamped "394, Vin".....	395. 400
Owensboro, in northeast corner of courthouse yard, meridian mark on stone post; aluminum tablet stamped "396, Louisville" (redetermined by Ohio River Survey, U. S. Corps of Engineers).....	394. 638
Stanley, 50 feet south of railroad crossing, in southeast corner of forks of roads; iron post stamped "385, Vin".....	386. 430

From Stanley along highway south to Sorgho, thence east to Owensboro.

Sorgho, west end of, in southeast corner of forks of road; iron post stamped "389, Vin".....	390. 292
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NEWBURG QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87° 15'-87° 30'.]

From Stanley west along Louisville, Henderson & St. Louis Ry. to Lee's switch.

Worthington, 300 feet west of station, south of track, in northwest corner of sandstone foundation of water tank; aluminum tablet stamped "385, Adj., 1903".....	383. 872
Reed, 60 feet south of station, in northeast corner of Charles Williams's store; aluminum tablet stamped "379, Adj., 1903".....	378. 215

Spottsville, 600 feet east of, west edge of railroad bridge over Green River, in northwest corner of west sandstone pillar; aluminum tablet stamped "385, Adj., 1903".....	Feet. 384. 442
Baskett, 200 feet east of station, north of track, in foundation at southeast corner of tank room of Pittsburgh Coal Co.; aluminum tablet stamped "401, Adj., 1903" (reported destroyed October, 1907)	400. 316
From Lee's switch along highway southeast to Hebbardsville, thence east to Sorgho.	
Zion, in west side of northwest pillar of Zion Baptist Church; aluminum tablet stamped "455, Adj., 1903".....	454. 761
Hebbardsville, northwest corner of crossroads at, in southeast brick pillar of C. W. Johnson's store, on east side; aluminum tablet stamped "426, Adj., 1903".....	424. 964
Hamilton's ferry over Green River, 1,500 feet east of, in north side of brick chimney of house owned by Ed Hamilton and occupied by James Estler; aluminum tablet stamped "404, Adj., 1903".....	403. 300

EVANSVILLE QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87° 30'-87° 45'.]

From Lee's switch west along Louisville, Henderson & St. Louis Ry. to Henderson, thence north to Evansville.	
Lee's switch, 4 miles east of, in southeast brick pillar of Race Creek Church; aluminum tablet stamped "405, Adj., 1903".....	404. 551
Henderson, in south corner of front window sill of Planters State Bank building; aluminum tablet stamped "399, Vin".....	400. 737

SUTHERLAND QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 87°-87° 15'.]

From Calhoun along highway southeast to Livermore.

Buel, opposite McEwen's general store, in base of outside chimney at east end of Mrs. Susan A. Davis's house; aluminum tablet stamped "446, Louisville".....	445. 633
From Livermore north along Louisville & Nashville R. R. and highway to Owensboro.	
Utica, in south face of Utica Deposit Bank building (brick), immediately west of large front window; aluminum tablet stamped "418, Louisville".....	416. 984
Browns Valley (Crow-Hickman station), crossing just south of; highest rail.....	407. 7
Sutherland, highway crossing; top of rail.....	398. 0
Petit, 0.9 mile south of, nearly opposite "Smith" Road, in north base of chimney at north end of house owned by Albert Sisson; aluminum tablet stamped "390, Louisville".....	389. 585
From Sorgho southeast along highway to Moseleyville, thence east to Sutherland.	
Lyddone bridge, 1 mile southeast of St. Raphael Church, in sandstone foundation of bridge over Panther Creek; aluminum tablet stamped "384, Adj., 1903".....	383. 471
Moseleyville, 0.9 mile east of, in base of chimney at north end of house on west side; aluminum tablet stamped "396, Louisville".....	395. 326
From Livermore along highway northeast to Heflin, thence north to Maxwell, thence west to Livia.	
Heflin, 0.9 mile west of, 600 feet east of Woodward's Valley Church, in north-east corner of rock foundation to iron bridge over Barnett Creek; aluminum tablet stamped "388, Adj., 1903".....	387. 611

Livia, 1 mile east of, west side of base of chimney at west end of Mrs. R. Tanner's house, 1.3 feet from ground; aluminum tablet stamped "476, Louisville".....	Feet. 475.457
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CALHOUN QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 87° 15'-87° 30'.]

From Sorgho along highway south to Cleopatra, thence southeast to Calhoun.

Sorgho, 3 miles southwest of, on West Louisville-Sorgho Road, at south end of west side of bridge over Panther Creek; cross cut on top of abutment stone.....	380.12
West Louisville, in front of J. H. Elder's store, 1.5 feet above platform, at left of main entrance; aluminum tablet stamped "462, Louisville".....	461.711
Cleopatra, in base of chimney at south end of C. L. Short's house, 1.9 feet above ground; aluminum tablet stamped "498, Louisville".....	497.439
Calhoun, in top of limestone belt course (water table) around courthouse 1.6 feet south of main entrance; aluminum tablet stamped "397, Louisville".....	396.908

From Calhoun northwest along highway to Beech Grove, thence west to Sebree.

Beech Grove, in west wall of McLean County Bank building, 3.9 feet from northwest corner, 2 feet from ground; aluminum tablet stamped "408, Louisville".....	407.407
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From Delaware northwest along highway to Euterpe. (Single-spur line from circuit from Beech Grove to West Louisville.)

Euterpe, in north side of base of chimney at north end of Walter Scott's house, 0.25 mile east of Cash Creek Baptist Church; bronze tablet stamped "468, Louisville".....	467.353
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From Elmwood east along highway via Onton and Ashbyburg to Calhoun.

Elmwood, in front of Louisville & Nashville R. R. station; top of rail.....	391.2
Onton, in base of outside chimney of post office, which is Bryant's house; aluminum tablet stamped "478, Louisville".....	479.414
Ashbyburg, in east wall of Brown & Luck's store, 2.3 feet from southeast corner and 2.3 feet from ground; aluminum tablet stamped "391, Louisville".....	391.314
Calhoun (Rumsey), river gage at Government locks on Green River, elevation of "17" upper river gauge and "29" lower river gauge.....	372.94

SEBREE QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 87° 30'-87° 45'.]

From Sebree north via Louisville & Nashville R. R. to Henderson.

Sebree, in east face of brick schoolhouse, north side of main entrance; aluminum tablet stamped "499, Louisville".....	499.838
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From Robards northwest along highway to Corydon, thence southwest to Oakland schoolhouse.

Rock Springs, 7.4 miles east of, at Cherry Hill Church on Frog Island road, at T road west, in sandstone pillar in southwest corner of west face of church; aluminum tablet stamped "424, Adj., 1903".....	423.794
Rock Springs, in northwest angle of crossroads, in front of Green Whittege's house; iron post stamped "486, Adj., 1903".....	485.673
Corydon, on west side of Main Street, in limestone doorsill of public schoolhouse, on south edge of main entrance; aluminum tablet stamped "459, Adj., 1903".....	458.619

Corydon, 4.8 miles southwest of, on road to Herman running east and west to connect with the Sulphur Springs road running north and south, 3 feet from northeast corner of Oakland schoolhouse; iron post stamped "423, Adj., 1903".....	Feet. 422. 767
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From Sebree along highway northwest to Poole, thence southwest to Tilden.

Pratt, in northwest corner of crossroads, in southwest pillar of blacksmith shop; aluminum tablet stamped "502, Adj., 1903".....	502. 144
Poole, near crossroads, 1 foot west of northeast corner of Poole Deposit Bank building; aluminum tablet stamped "499, Adj., 1903".....	498. 674
Wanamaker, J. A. Aldridge's store, in northwest corner of crossroads, in southeast sandstone pillar, 0.5 foot above ground; aluminum tablet stamped "445, Adj., 1903".....	444. 544
Tilden, at southeast corner of crossroads, in northwest pillar of Tapp & Townsend's store; aluminum tablet stamped "425".....	425. 114

From Tilden along highway south to Dixon, thence east to Slaughterville.

Tilden, 2.8 miles south of, at junction with north-south road from Wanamaker to Dixon, in northwest corner of forks, in front of Tom Watson's house; iron post stamped "605, Adj., 1903".....	604. 594
Dixon, Webster County courthouse, on west side, 5 feet north of main entrance, 4 feet above ground; aluminum tablet stamped "543, Adj., 1903".....	543. 508
Catesville, 0.6 mile northwest of, on Slaughterville road, in southeast corner of rock foundation of iron bridge over Deer Creek; aluminum tablet stamped "397, Adj., 1903".....	397. 986
Catesville, 3.2 miles east of, on road to Slaughterville, in sandstone pillar at northwest corner of Mount Pleasant Church; aluminum tablet stamped "569, Adj., 1903".....	569. 658

From Sebree south along Louisville & Nashville R. R. to Slaughterville.

Sebree, 4 miles south of, at south end of Breton switch on Louisville & Nashville R. R., at road crossing, in northwest corner and 2 feet west of right-of-way corner post; iron post stamped "384, Adj., 1903".....	384. 463
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MORGANFIELD QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 87° 45'-88°.]

From Oakland schoolhouse along highway southwest to Herman, thence southeast to Tilden.

Herman, in front of J. M. Cottingham's store, in northwest angle of T road; iron post stamped "402, Adj., 1903".....	401. 439
Topeka, at northwest angle of crossroads, in south face of southeast sandstone pillar of large white church; aluminum tablet stamped "430, Adj., 1903".....	430. 341

From Herman along highways to Waverly, thence along Illinois Central R. R. to Grove Center.

Herman, 3.45 miles northwest of, 25 feet north of three-road intersection, 2 feet south of fence, 300 feet northwest of A. G. McClanahan's house, 25 feet east of telephone pole; iron post stamped "415, Adj., 1903".....	414. 894
Waverly, in garden in north corner of H. T. Willet's front yard, in sandstone post 3 feet from fence; bronze tablet stamped "Prim. Trav. Sta. No. 8, 408".....	407. 592
Flournoy station, 70 feet from southeast corner of Illinois Central R. R. station, 65 feet west of locust tree, 24 feet northwest of center of highway; iron post stamped "419, Adj., 1903".....	418. 760

Morganfield, 200 feet southwest of Illinois Central R. R. station, on northeast corner of abutment of concrete bridge over small creek; chiseled square.....	Feet. 408.841
Harding station, 50 feet east of southeast corner of, 18 feet south of warning post, 3 feet north of fence; iron post stamped "379, Adj., 1903." (Recovered by precise leveling.).....	378.925

From Sturgis southeast to Sullivan.

Sturgis, at right of entrance of First National Bank building, at first stone, in top stone of foundation wall; aluminum tablet stamped "379, Adj., 1903".....	378.608
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From Sullivan along highways via Hearin and Shelton to Topeka crossroads.

Wynn's bridge, 500 feet northeast of, 30 feet from northwest corner of Woodmont's mill, at center of three-road corners; iron post stamped "364, Adj., 1903".....	364.223
Hearin post office, in east corner of Mrs. Jennie Nall's garden, east corner of blacksmith shop bears north 50° 30' W., distant 141 feet; north corner of Mrs. Nall's residence bears S. 25° 15' W., distant 63 feet; in sandstone post 8 by 15 by 36 inches set 30 inches in ground; bronze tablet stamped "Prim. Trav. Sta. No. 9, 468, Adj., 1903".....	467.882
Shelton, 1.1 miles southwest of, at T roads, Morganfield and Dixon Pike, 10 feet from northeast corner of small bridge, 16 feet north of bank of ditch; iron post stamped "407, Adj., 1903".....	407.216
Shelton, 2.69 miles northeast of, at T roads at J. E. Gibson's; iron post stamped "566, Adj., 1903".....	565.667
Topeka, at northwest angle of crossroads, in south face of east sandstone pillar of large white church; aluminum tablet stamped "430, Adj., 1903".....	430.341

From Morganfield via Illinois Central R. R. to Uniontown. (Checked spur line.)

Morganfield, 3.36 miles north of, in center of three-road corners, 200 feet southwest of road crossing, about 1 mile north of Chapman station on Uniontown Branch of Illinois Central R. R.; iron post stamped "376, Adj., 1903".....	376.108
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From Morganfield along highway via Cullen and Bordley to Hearin.

Morganfield, in center face of west column at entrance to county courthouse; aluminum tablet stamped "439, Adj., 1903".....	439.127
Morganfield, 3.56 miles southeast of, at northeast corner of Baptist Church at Little Union, in stone post; aluminum tablet stamped "448, Adj., 1903".....	447.912
Little Union, 5.5 miles south of, north of road, 20 feet from southeast corner of I. H. Mahan's house, 2 feet outside of fence, at northwest angle of three-road corners at Cullen; iron post stamped "476, Adj., 1903".....	475.783
Bordley, north part of town, northeast corner of brick foundation of Baptist Church; aluminum tablet stamped "417, Adj., 1903".....	416.290

ALZEY QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87° 45'-88°.]

At Uniontown. (By checked spur line from Morganfield.)

Uniontown, in south part of, in south part of R. H. Looper Tobacco Co.'s property, nail in black-oak tree, bears N. 23° 30' W., distant 10.2 feet; south corner of tobacco factory (main building), bears N. 25° 15' E., distant 103.9 feet; corner post to south corner of fence is 4.6 feet distant, in top of sandstone post 7 by 13 by 26 inches set 23 inches in ground; aluminum tablet stamped "Prim. Trav. Sta. No. 13, 360, Adj., 1903".....	359.779
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PROVIDENCE QUADRANGLE.

[Latitude $37^{\circ} 15' - 37^{\circ} 30'$; longitude $87^{\circ} 45' - 88^{\circ}$.]

From Sullivan along Illinois Central R. R. via Blackford to Clay.

Sullivan, in north corner of John McGraw's front yard, northeast corner of McGraw's house bears S. $33^{\circ} 45'$ E., distant 166 feet; bronze tablet stamped "Prim. Trav. Sta. No. 10, 395, Adj., 1903"	Feet. 395. 286
Blackford, in top stone, center of northwest abutment of Illinois Central R. R. drawbridge over Trade Water River; aluminum tablet stamped "362, Adj., 1903"	361. 876
(Either or both of the following two elevations may be 1 foot too great.)	
Wheatscroft, 83 feet west of store opposite station, at southeast angle of T roads, 88 feet east of railroad bridge at station; iron post stamped "376, Adj., 1903"	375. 947
Clay, at railroad crossing, at southeast corner in east face of red brick block owned by the Clay Mercantile Co.; aluminum tablet stamped "380, Adj., 1903"	379. 941

From Clay along Louisville & Nashville R. R. to Providence.

(The first elevation of this list may be 1 foot too great.)

Clay, 3.18 miles southeast of, in center of top of west abutment of concrete retaining wall; iron pipe stamped "374, Adj., 1903"	373. 485
(One foot adjustment made between these bench marks.)	
Providence, in face of fence wall of T. B. Payne's residence at northeast corner of T. B. Payne's store; aluminum tablet stamped "453, Adj., 1903" ..	451. 717

From Providence along highway through Dalton, Creswell, Starr, and Tribune to highway crossing north of Repton.

Providence, 3.86 miles southeast of, in top stone of middle abutment east side of iron highway bridge over Clear Creek; aluminum tablet stamped "355, Adj., 1903"	353. 824
Providence, 8.53 miles southeast of, 3 feet north of center of front of schoolhouse at Dalton; iron post stamped "Prim. Trav. Sta. No. 18, 438, Adj., 1903"	436. 507
Dalton, 2.74 miles southwest of, in top stone of northeast abutment, center of iron highway bridge over Tradewater River; aluminum tablet stamped "372, Adj., 1903"	371. 114
Dalton, 6.01 miles southwest of, in top of stone on northeast abutment of iron highway bridge over Dolison Creek; aluminum tablet stamped "372, Adj., 1903"	371. 062
Quinn, 2.23 miles west of, 18 feet from schoolhouse, at southwest corner, 23.9 feet northeast of black walnut tree at Walnut schoolhouse; iron post stamped "Prim. Trav. Sta. No. 17, 1906, 588, Adj., 1903"	586. 792
Creswell, 1.68 miles southwest of, 100 feet east of three-road corners, 8 feet south of center of road, 400 feet west of Pleasant Hill Log Church, near road to north, in top of ledge of rocks; aluminum tablet stamped "417, Adj., 1903"	416. 916
Pleasant Hill, 3.48 miles west of, 500 feet southeast of D. W. Vinson's house, at northeast corner of T roads, 20 inches from corner of fence; iron post stamped "Prim. Trav. Sta. No. 16, 464, Adj., 1903"	463. 939
Starr, at northeast angle of crossroads, in southwest corner of foundation wall of red brick church; aluminum tablet stamped "541, Adj., 1903"	541. 082
Tribune, 31 feet west of southeast corner of crossroads, 4 feet north of fence, 12 feet south of tree, in ledge of rocks; aluminum tablet stamped "431, Adj., 1903"	430. 695
Tribune, 1.86 miles north of, inside southwest fence corner at crossroads; iron post stamped "Prim. Trav. Sta. No. 15, 1906, Adj., 508"	507. 954

From Repton along Illinois Central R. R. to Blackford.

Hoods station, 300 feet northwest of north end of switch, 30.5 feet west of west rail at post "J. E. 66-52," at highway crossing, in ledge of rocks; aluminum tablet stamped "444, Adj., 1903." (Recovered by precise levels.).....	Feet. 444. 268
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From Blackford via Fish Trap and Shady Grove to Walnut Grove. (Unadjusted secondary levels.)

Blackford, in top stone, center of northwest abutment of Illinois Central Railroad drawbridge over Trade River; aluminum tablet stamped "362, Adj., 1903"	361. 876
Fish trap, in foundation of Enon Church, in second stone from southwest corner; aluminum (probably) tablet stamped "409"	408. 973
Shady Grove, in foundation of S. T. Towery's house; aluminum tablet (probably) stamped "426"	426. 423

(The above line has not been adjusted on account of excessive closure error.)

SHAWNEETOWN QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 88°-88° 15'.]

From Grove Center along highway to Sturgis.

Gum Grove, northeast corner of Ben F. Perkins's front yard, northeast of residence, bears S. 56° 45' W., distant 39.9 feet; front face of silver poplar tree bears N. 51° W., distant 34.4 feet; telephone pole bears N. 32° E., 6 feet distant; in top of sandstone post 7 by 12 by 24 inches; aluminum tablet stamped "386, Adj., 1903, Prim. Trav. Sta. No. 11" ...	386. 065
Grove Center, 4.72 miles south of, 6 feet north of large oak tree, 2 feet east of wire fence at T roads; iron post stamped "369, Adj., 1903"	369. 220

Cobb, Dawsonsprings, Kuttawa, Nortonville, and Princeton quadrangles.**CALDWELL, CHRISTIAN, HOPKINS, AND LYON COUNTIES.**

The elevations in the following list were determined by primary leveling extended from the precise-level line from Shawneetown, Ill., to Cerulean, Ky., and the precise-level line of the United States Corps of Engineers along the Ohio River as adjusted by the Coast and Geodetic Survey.

The leveling was done in Cobb and Kuttawa quadrangles in 1908 by E. C. Bibbee; in Dawsonsprings quadrangle in 1907 by H. W. Peabody, in 1908 by Bibbee, and in 1909 by S. R. Archer; in Princeton quadrangle in 1908 by Bibbee and in 1909 by Archer; and in Nortonville quadrangle in 1907 by Peabody, in 1909 by Archer, and in 1910 by Ed. Shea and C. B. Shaw. The line from Fruit Hill to Kirkmansville was rerun in 1911 by Bibbee, and a new adjustment was made of the lines from Fruit Hill to Johnson and from Fruit Hill to Crofton.

COBB QUADRANGLE.

[Latitude 36° 45'-37°, longitude 87° 45'-88°.]

From Cobb via Hopson to point 3 miles northwest of Lamasco.

	Feet.
Cobb, at southwest corner of store occupied by S. C. Sizenmore, opposite station, north side of track at railroad crossing; iron post stamped "462" ..	462. 687
Hopson, in foundation of office building owned by L. A. Hopson, 150 feet south of crossroads, 20 feet west of center of public road; aluminum tablet stamped "544"	544. 629
Hopson, 2.77 miles northwest of, in paint spot on line rock in center of road; chiseled square painted "525.9"	526. 14
Hopson, 5.28 miles northwest of, in northwest side of chimney foundation of Joe Prescott's residence; aluminum tablet stamped "Prim. Trav. Sta. No. 19, 535"	535. 552

DAWSONSPRINGS QUADRANGLE.

[Latitude 37°-37° 15', longitude 87° 30'-87° 45'.]

From Claxton to Dawsonsprings, thence north about 4 miles.

Claxton, 3.0 miles east of, in west abutment south side of iron bridge; aluminum tablet stamped "411"	410. 797
Dawsonsprings, 1.0 mile west of, 100 feet east of railroad crossing, on west concrete abutment north side of iron railroad bridge; chiseled square painted "400.53"	400. 79
Dawson, 120 feet north of railroad, in southwest corner of Christian Church; aluminum tablet stamped "436"	435. 797
Dawson, in foundation of Dawson Salt & Water Co.'s store, at east entrance; aluminum tablet stamped "Prim. Trav. Sta. No. 22, 414"	414. 326
Dawsonsprings, 1.3 miles north of, on south end of culvert leading to Rose-dale Cemetery at Y road; chiseled square painted "437.0"	437. 34
Dawsonsprings, 2.4 miles north of, on sandstone ledge east of road; chiseled square	480. 05
Dawsonsprings, 3.5 miles northwest of, on large rock north of road, 25 feet west of T road; chiseled square	407. 83

From Dawsonsprings east along Illinois Central R. R. via St. Charles to Daniel Boone.

Dawsonsprings, 3.4 miles northeast of, 1.4 miles west of Ilsley station, opposite milepost "N. O. 627, L. 162," on south right-of-way line; iron post stamped "397"	396. 937
Ilsley station, southeast corner of platform on south side of track, in floor; copper nail marked "410.69"	410. 94
Hamby, 110 feet east of station, on south right-of-way line, east side of road, 60 feet east of railroad; iron post stamped "412"	412. 541
St. Charles, 100 feet northeast of station, 40 feet north of fence corner, bend in public road to east, east side of road, at foot of telephone pole; iron post stamped "427"	427. 031
Daniel Boone, 40 feet south of platform, 80 feet northeast of coal company's store; iron post stamped "494"	494. 545

From Crofton along roads west to point 2.5 miles north of Era, thence south to Era, thence west to Hawkins post office, thence northwest to point 1.5 miles southeast of Friendship.

Crofton, 1.4 miles west of, at private roads, south side of main road, east side of gate, in root of 1½-foot sweet-gum tree; copper nail marked "638.8"	Feet. 638. 95
Crofton, 2.6 miles west of, T road north, northwest corner of roads, inside fence corner; iron post stamped "637"	636. 881
Crofton, 2.8 miles west of, T road southwest, north side of road at forks, on top of stone; chiseled square marked "620.5"	620. 65
Crofton, 4 miles west of, in front of Geo. Bowlan's residence, in top of west side of small plank bridge; copper nail marked "512.6"	512. 69
Crofton, 5.7 miles west of, T road southwest, on top of stone boulder, at northeast corner; chiseled square marked "578.1"	578. 19
Crofton, 6.2 miles west of, 2.5 miles north of Era, 2.8 miles southeast of Pod, at southeast corner of crossroads; iron post stamped "605"	604. 749
Era, 1.9 miles north of, T road west, in center of road, in root of 2-foot hickory tree; copper nail marked "642.9"	643. 01
Era, 0.8 mile north of, private road west to house, in top of stump on east side of road; copper nail marked "655.03"	655. 15
Era, T road west, 300 feet south of store, at blacksmith's shop, northwest corner of road forks; iron post stamped "683"	682. 758
Era, 2 miles northwest of, 500 feet west of main branch of Camp Creek, 50 feet east of bend in road to southwest, on top of rock outcrop on north side of road; chiseled square marked "500.9"	501. 04
Era, 2.7 miles west of, T road northwest, south side of road forks, in base of 6-inch hickory tree; copper nail marked "561.1"	561. 17
Era, 3 miles west of, at Mount Carmel schoolhouse, north side of road, 110 feet south of southwest corner of schoolhouse, 30 feet north of center of road; iron post stamped "572"	572. 527
Era, 3.8 miles west of, about 900 feet north of Mount Carmel Church, east side of north-south road, at crossroads, in root of 2-foot oak tree; copper nail marked "742.4"	742. 49
Hawkins post office, 0.7 mile south of, at northeast corner of road forks, 1 foot from east end of plank culvert, on top of rock bottom of drain; chiseled square marked "736.4"	736. 48
Hawkins, opposite store, east side of road at foot of fence corner; iron post stamped "759"	759. 716
Hawkins, 0.6 mile northwest of, T road west, on west side of main road, on top of stone; chiseled square marked "755.05"	755. 15
Hawkins, 0.6 mile northwest by 1.9 miles southwest of, 150 feet southwest of private road to north through woods, in center of road on top of stone; chiseled square marked "545.6"	545. 72
Hawkins, 0.6 mile north by 3.3 miles southwest of, about 2 miles northwest of Bainbridge post office, on Princeton Pike, at southeast corner of crossroads; 100 feet south of center of crossroads, at fence line; iron post stamped "555"	555. 624
Friendship, 3.3 miles southeast of, southwest corner of crossroads, 500 feet south of small store, 8 feet from small sycamore tree; iron post stamped "506"	506. 629

From St. Charles south along roads via Pod post office to point 2.5 miles north of Era.

St. Charles station, 0.5 mile west by 1.5 miles southeast of, northeast corner of crossroads, near stone post; iron post stamped "466"	Feet. 465. 803
St. Charles station, 2.8 miles southwest of, center of T road east, on top of stone; chiseled square marked "436.2"	436. 45
St. Charles station, 3.8 miles southwest of, 1,000 feet northwest of Cranor schoolhouse, northeast corner of road forks, in top of oak stump; copper nail marked "514.5"	514. 72
St. Charles station, 4.2 miles southwest of, east side of road, at T road west; iron post stamped "543"	543. 393
Pod, 3.3 miles northeast by 0.3 mile west of, 300 feet east of county line, north side of road, in top of stump; copper nail marked "561.3"	561. 60
Pod, 2.8 miles northeast of, woods road to west, 100 feet north of stream crossing, 1.4 miles north of Castleberry Church, west side of road, 18 inches from fence line; iron post stamped "504"	504. 307
Pod, about 700 feet west of store, northwest corner of crossroads; iron post stamped "426"	426. 727
Pod, 1.4 miles southeast of, at steel bridge over Treadwater Creek, on top of south abutment, east wing wall of; chiseled square marked "438.3" ..	438. 54
Crofton, 6.2 miles west of, 2.5 miles north of Era, 2.9 miles southeast of Pod, at southeast corner of crossroads; iron post stamped "605"	504. 749

Near Earlington.

Earlington, 3 miles southwest of, 0.2 mile east of T road south, in north face of northwest corner of Allen Laffoon's dwelling; aluminum tablet stamped "499 1907"	499. 182
Earlington, 6 miles southwest of, at southeast corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 4, 428, 1907"	428. 448

KUTTAWA QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 88°-88° 15'.]

From Enon southwest to Fredonia.

Fredonia, 3.04 miles northeast of, 300 feet southeast of T. G. Maxwell's residence, in limestone ledge on west side of road; aluminum tablet stamped "470"	470. 367
Fredonia (old town), at southeast corner of T road opposite post office, on large stone; chiseled square	421. 56
Fredonia (new town), opposite station, in northwest corner of G. H. Rice's field; iron post stamped "402"	402. 534

PRINCETON QUADRANGLE.

[Latitude 37°-37° 15'; longitude 87° 45'-88°.]

From Princeton via Scottsburg to Claxton.

Princeton, in southwest corner of courthouse yard, 20 inches from corner of iron fence; iron post stamped "488"	488. 016
Scottsburg, 100 feet west of station, at northwest corner of Harlan Hoover's residence; iron post stamped "521"	521. 241
Claxton, 300 feet north of railroad, in foundation of Illinois Central R. R. section house; aluminum tablet stamped "450"	449. 884

From point 2 miles east of Scottsburg south to Cobb.

	Feet.
Scottsburg station, 1.98 miles east of and 0.88 mile south of, on stone step of Lebanon Baptist Church at Y road; chiseled square painted "587.6"...	587.88
Friendship, at southeast corner of crossroads; iron post stamped "Prim. Trav. Sta. No. 21, 525".....	524.807
Friendship, 0.91 mile south of, 100 feet north of T road west, on large limestone rock in center of road; chiseled square painted "482.9".....	483.17
Friendship, 2.38 miles south of, west of road near turn in road at creek crossing, on large rock; chiseled square.....	464.96
Friendship, 3.47 miles south of, in northwest corner of foundation of T. B. Howard's residence; aluminum tablet stamped "508".....	508.488

From Enon via Dulaney to point 3 miles northwest of Lamasco.

Crider, 5.75 miles north of, about 4 miles east of Fredonia, at T road, 25 feet east of southeast corner of Tom Blackburn's field; iron post stamped "535".....	535.198
Crider, 1.11 miles north of, 500 feet northwest of Bethlehem Church, opposite residence of W. L. Miller, on large rock on east side of road; chiseled square.....	489.28
Crider, in foundation of cistern top at southeast corner of Crider's store; aluminum tablet stamped "469".....	469.662
Crider, 0.25 mile south of station, in front face of northeast corner of foundation of residence of Mr. Crider; aluminum tablet stamped "Prim. Trav. Sta. No. 18, 1907, Kentucky, 475".....	475.385
Dulaney, railroad crossing; top of rail.....	544
Dulaney, 130 feet west of station, 85 feet north of track, between stores of Tom Jordan and Bill Johnes; iron post stamped "547".....	547.556
Dulaney, 60 feet north of railroad, in southeast corner of foundation of store owned by W. H. Jones; aluminum tablet stamped "546".....	546.722
Dulaney, 2.92 miles south of, in southeast corner of crossroads, 20 feet from fence on farm owned by William Garrett; iron post stamped "465".....	464.900
Hopson, 9.39 miles northwest of, north of road, opposite residence of L. H. Oliver, on large limestone rock; chiseled square.....	515.97
Hopson, 8.27 miles northwest of, 50 feet west of T road, 25 feet north of large oak tree, about 0.25 mile north of Friendship Church; iron post stamped "573".....	573.015

Near Olney.

Dawson, 4.5 miles northwest of, on rock at east approach south side of bridge over Bull Creek; chiseled square painted "390.79".....	391.04
Dawson, 4.87 miles northwest of, in southeast corner of foundation of Union Grove schoolhouse; aluminum tablet stamped "431".....	431.570
Kirkwood Springs, 1 mile south of, in southeast corner of Freedom school yard, 2 feet from fence; iron post stamped "543".....	543.664
Kirkwood Springs, 0.6 mile north of, on large sandstone rock at west side of road; chiseled square.....	419.94

At Friendship.

Friendship, southeast corner of crossroads, in top of 7-inch square stone; aluminum tablet stamped "Prim. Trav. Sta. No. 21, 525, 1908".....	524.807
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NORTONVILLE QUADRANGLE.

[Latitude 37°-37° 15'; longitude 87° 15'-87° 30'.]

From Nortonville east along Illinois Central R. R. to point 1 mile east of Depoy, thence southwest and west to Johnsons post office, thence west and southwest to Crofton.

	Feet.
Nortonville, 2.4 miles east of, near north end of west abutment of wooden railroad bridge J 148-55; iron post stamped "395, Ky".....	394. 948
Bakersport, about 75 feet southwest of water tank on south side of track; iron post stamped "397, Ky".....	396. 996
Graham, 600 feet west of station, on north side of track, about 100 feet east of switch; iron post stamped "409, Ky".....	409. 197
Depoy, 0.9 mile east of station, inside right of way, about 60 feet to center of road crossing over tracks; iron post stamped "507, Ky".....	506. 907
Depoy, about 3.5 miles southeast of, 75 feet to center of road, north side of road, 80 feet east of white-oak tree; iron post stamped "545, Ky".....	544. 841
Bancroft, 0.8 mile east of, 15 feet south of center of road; cross cut on top of stone.....	538. 48
Bancroft, 75 feet west of Harris & Co.'s store, 20 feet east to center of road; iron post stamped "485, Ky".....	485. 567
Bancroft, 0.5 mile south of, opposite A. W. McCown's residence, on north side of road; spike in root of walnut tree.....	431. 20
Bancroft, 0.8 mile south of, 50 feet north of and opposite residence of Mr. Vay Over, on west side of road; spike in root of walnut tree.....	447. 04
Bancroft, 1.5 miles south of, 25 feet north of center of road, at T road southeast; nail in root of small ash tree.....	472. 15
Bancroft, 2.6 miles south of, on east side of main road, at forks of road; iron post stamped "451, Ky".....	451. 044
Bancroft, 2.8 miles south of, at T road northeast, on east side of road; cross cut in cement culvert.....	435. 23
Bancroft, 3 miles south of, 50 feet south of T road east, on east side of road, in front of Mr. Carey, jr.'s, residence; spike in root of large oak tree.....	440. 63
Bancroft, 3.5 miles south of, on east side of road, at T road west; nail in root of small gum tree.....	411. 33
Bancroft, 3.8 miles south of, at T road east, in front of negro cabin; cross cut in stepping stone.....	439. 30
Bancroft, 3.8 miles south of, at T road northeast, on west side of road; nail in root of small white oak tree.....	450. 43
Johnsons, 1.4 miles north of, 600 feet south of schoolhouse, on west side of road, at T road northeast; spike in root of gum tree.....	478. 91
Johnsons, 0.2 mile north of, bridge over Pond River; cross cut on west end of north abutment.....	412. 61
Johnsons, 0.2 mile north of, at southwest corner of wooden bridge over Pond River; iron post stamped "413, Ky".....	413. 681
Sharber's store, 40 feet west of, in front of store, 1.2 miles west of Pond River bridge; nail in large oak tree.....	478. 25
Wynns, 1.5 miles north of, southwest corner of T road west, inside fence; iron post stamped "406, Ky".....	406. 849
Wynns, 75 feet south of post office, at forks of road; spike in root of large oak tree.....	519. 19
Wynns, 0.5 mile west of, at northeast corner of T road north; nail in root of small oak tree.....	562. 75
Wynns, 0.6 mile west of, at T road east, east side of road; nail in old stump.....	565. 77
Crofton, 7 miles northeast of, on west side of road, at T road west; nail in root of scrub oak tree.....	543. 30

Crofton, 6.2 miles east of, in southeast corner of bridge over small creek; top of bolt.....	Feet. 426. 28
Crofton, 6 miles east of, on south side of road at T road north, inside fence; iron post stamped "479, Ky".....	479. 298
Crofton, 3 miles east of, at forks of road, on south side of road, inside fence; iron post stamped "512, Ky".....	512. 712
Crofton, in front face of Crofton Hotel, at northeast corner; bronze tablet stamped "608, Ky".....	608. 456

From Johnsons south via Apex to Fruit Hill. (This line is unadjusted and closes 1.2 feet low at Fruit Hill.)

Johnsons, 0.7 mile west of, on north side of road, at T road south; circle marked on large stone.....	574. 21
Pond River bridge, 0.8 mile west of, on south side of road, at T road south; nail in root of large oak tree.....	602. 67
Apex (Crunk's store), 0.8 mile east of, at southwest corner of crossroads; nail in root of large oak tree.....	673. 37
Apex, 400 feet north of post office, in forks of and on north side of road, inside fence; iron post stamped "664".....	664. 691
Apex, 1.2 miles south of, on west side of road at T road to Crofton; nail in root of oak tree.....	764. 67
Apex, 1.4 miles south of, 500 feet north of store conducted by M. M. Gorden, on east side of road at fork; nail in root of large tree.....	748. 71
Apex, 2.5 miles west of, on north side of road at T road south; nail in root of small tree.....	648. 21
Apex, 2.7 miles west of, at intersection of T roads; nail in oak stump.....	598. 12
Apex, 3 miles south of, on east side of Greenville-Hopkinsville road, in forks of road; iron post stamped "519, Ky".....	519. 667
Apex, 3.8 miles south of, on west side of road at T road east; nail in root of large oak tree.....	493. 20
Apex, 4 miles south of, at northwest corner of crossroads; nail in root of large oak tree.....	497. 18
Apex, 5.8 miles south of, on east side of road at T road east; nail in root of oak tree.....	771. 42
Apex, 5.9 miles south of, on east side of road at T road east; nail in large oak stump.....	798. 04
Apex, 6 miles south of, 800 feet north of Judges Chapel, west side of road at forks; inside fence; iron post stamped "792, Ky".....	791. 930
Apex, 6.5 miles southwest of, on east side of road at T road; circle on abutment stone of culvert.....	624. 40
Apex, 7 miles south of, on west side of road at intersection; nail in root of small oak tree.....	611. 65

From Fruit Hill west to Crofton. (Run twice.)

Fruit Hill, opposite post office, in face of brick chimney on north side of residence of David Smith; aluminum tablet stamped "Prim. Trav. Sta. No. 6, 641, Ky.".....	642. 049
Fruit Hill, 4.5 miles west of, on Crofton-Fruit Hill road, in front face of brick foundation 2 feet south of front steps to residence of Lem Davis; aluminum tablet stamped "557".....	558. 852

From Fruit Hill east along highways to point 1.15 miles east of Todd-Christian County-line stone. (Run twice.)

	Feet.
Bluff Springs, opposite post office, in southwest corner of Mr. Robinson's front yard; iron post stamped "573, Ky".....	574.258
Kirkmansville, 2.5 miles west of, in top of Todd-Christian county-line stone; aluminum tablet stamped "569, Ky"	570.129
Kirkmansville, 0.87 mile west of, 370 feet east of yard, 1 foot north of fence, on south side of road, in root of black-oak tree; copper nail.....	504.38

At Salem Church.

Salem Church, 1.5 miles east of Morton's Gap, in west face of southwest corner foundation pier of church; aluminum tablet stamped "427, 1907".	426.899
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From Daniel Boone along Illinois Central R. R. to Nortonville, thence north along Louisville & Nashville R. R. via Mortons Gap to Barnsley.

Nortonville Junction, 0.7 mile west of, 100 feet east of road crossing, on top of concrete foundation of signal tower; chiseled square marked "412.4" ..	412.62
Nortonville Junction, crossing of Louisville & Nashville and Illinois Central railroads on main track of Illinois Central R. R.; top of rail marked "408.9"	409.1
Nortonville, 300 feet east of station, 120 feet south of Louisville & Nashville R. R. track, in front wall, east side of First State Bank building entrance; aluminum tablet stamped "Prim. Trav. Sta. No. 3, 408, 1908"	408.466
Mortons Gap, 0.3 mile north of, east side of track, 75 feet east of crossing, at fence line; iron post stamped "451"	451.259
Barnsley, 100 feet west of Louisville & Nashville R. R., in front of St. Bernard Mining Co.'s store; iron post stamped "Prim. Trav. Sta. No. 3, 484".	483.607

From Nortonville south along Louisville & Nashville R. R. via Mannington and Empire to Crofton.

Nortonville, 3 miles south of, second-class road crossing, 100 feet north of switch stand of switch west to log yard, east railroad right-of-way line, south side of road, at foot of gate post; iron post stamped "411"	410.746
Mannington, 1 mile north of, opposite milepost "N. 92, St. L. 226," in top of south post of rail stand on east side of track; nail marked "420.7"	420.88
Mannington, in front of station; top of rail	424.9
Mannington, 300 feet south of station, 300 feet north of road crossing, west right-of way line, 60 feet north of McIntire's store, at foot of telergaph pole; iron post stamped "424"	423.723
Mannington, 1 mile south of, opposite milepost "N. 90, St. L. 228," in top of south post of rail stand; copper nail marked "437.9"	438.05
New Empire, 600 feet south of station, opposite milepost "N. 89, St. L. 229," in top of north post of rail stand on east side of track; copper nail marked "452.1"	452.24
Empire, in front of station; top of rail	515.3
Empire station, west right-of way line, 75 feet west of mail crane, 200 feet south of Empire Coal and Mining Co.'s store, at fence corner; iron post stamped "519"	518.647
Empire station, 0.9 mile south of, opposite milepost "N. 87, St. L. 231," 40 feet north of section post (secs. 14 and 15), in top of north post of rail stand; copper nail marked "589.9"	590.03
Crofton, opposite Louisville & Nashville R. R. station, 90 feet west of track, northeast corner of Crofton Hotel; aluminum tablet stamped "Prim. Trav. Sta. No. 2, 608, 1908"	608.456
Crofton, 0.3 mile west of, T road northwest, south side of road forks, in root of tree; copper nail marked "609.3"	609.47

APPENDIX A.

ELEVATIONS ADJUSTED BY THE COAST AND GEODETIC SURVEY FROM PRECISE LEVELING.

Alzey, Bayouville, Bedford, Bethel, Brownfield, Burnside, Campbellsburg, Cannelton, Ceredo, Corydon, Craborchard, East Cincinnati, Ekron, Evansville, Fords Ferry, Garrison, Georgetown, Golconda, Greenup, Hickman, Hustonville, Ironton, Joppa, Kosmosdale, Lawrenceburg, Louisville, Maysville, Mitchellsburg, Morning View, Mound City, New Albany, Newburg, New Haven, Nicholasville, Paducah, Parkers Lake, Peckenaugh, Prospect, Rectorville, Rising Sun, Sadieville, Shawneetown, Smithland, Somerset, Stearns, Talmage, Tell City, Vanceburg, Water valley, Walton, West Cincinnati, Wickliffe, Williamsburg, and Williamstown quadrangles.

CRAWFORD, JEFFERSON, OHIO, AND VANDERBURG (IND.), HAMILTON (OHIO), AND BALLARD, BOONE, BOYD, BOYLE, BRACKEN, BRECKENRIDGE, CAMPBELL, CARLISLE, CARROLL, CRITTENDEN, DAVIESS, FAYETTE, FULTON, GALLATIN, GRANT, GREENUP, HANCOCK, HENDERSON, HICKMAN, JEFFERSON, JESSAMINE, KENTON, LEWIS, LINCOLN, LIVINGSTON, McCRACKEN, MASON, MEADE, MERCER, OLDHAM, PENDLETON, PULASKI, SCOTT, UNION, AND WHITLEY (KY.) COUNTIES.

The following descriptions and elevations are taken from reports of the Coast and Geodetic Survey and from manuscript furnished by the Chief of Engineers, United States Army, and are published by permission of the Superintendent of the Coast and Geodetic Survey and of the Chief of Engineers. The bench marks were established by the Coast and Geodetic Survey and by the Corps of Engineers, United States Army, from precise leveling and were included in the 1912 adjustment by the Coast and Geodetic Survey. The elevations are likely to be changed only slightly by any future adjustment.

CEREDO QUADRANGLE.

[Latitude 38° 15'–38° 30'; longitude 82° 30'–82° 45'.]

From Catlettsburg along Ohio River to Ironton.

Catlettsburg, southwest corner of Louisa and Division streets, 58 feet west of Louisa Street west curb line, 11.25 feet east of west corner of Big Sandy National Bank Building; cut in top of foundation stone under window east of office entrance marked "U. S. \square B. M." (U. S. C. E. b. m. 316 A).	Feet. 548.588
Ashland, 1.8 miles above Ashland Landing, 95.70 feet east of east corner of brick boiler house of waterworks pump house, 22 feet southwest from top of bank of Ohio River, southwest from lone cedar tree on opposite side of river; cut on top of 6-inch-square stone, sunk in ground with top 6 inches below surface marked "U. \square S." (U. S. C. E. b. m. 320 A).....	536.998
Ashland, southwest corner of Fifteenth and West Front streets, 27 feet southwest of northeast corner of Aldine Hotel; cut on top of stone foundation on southeast side of hotel marked "U. S. \square B. M." (U. S. C. E. b. m. 322 A).....	546.560

IRONTON QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 82° 30'-82° 45'.]

At Ironton.

Ironton, Ohio, northeast corner of Fourth and Railroad streets, on southwest corner of Memorial Hall, 4 feet above sidewalk; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 326 A)	Feet. 547.776
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GREENUP QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 82° 45'-83°.]

From Ironton along Ohio River to Portsmouth.

Brammer farm, 1.9 miles above Greenup Landing, 1,100 feet below U. S. post light No. 170, 2,830 feet below mouth of Uhlands Run, 150 feet to right of top of river bank, 90 feet upstream from a road; cut on 5 by 6 foot boulder marked "U. S. \square B. M. 1899" (U. S. C. E. b. m. 332 A)	495.869
Greenup, on east face of East Channel pier of highway bridge over Little Sandy River, on third course of stone above ground, 9.2 feet north of south corner of pier; cut marked "U. S. B. M. \square " (U. S. C. E. b. m. 335 A) ...	494.107
Sciotoville, 5.4 miles above, at Big Rocky Run, on top stone of east end of culvert under Chesapeake & Ohio Ry.; 1.5 feet south of north side, 1.1 feet west of east face of culvert; cut marked "U. \square S." (U. S. C. E. b. m. 343 A)	516.934

VANCEBURG QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 83° 15'-83° 30'.]

From Vanceburg along Ohio River to Concord.

Vanceburg, in Vanceburg courthouse yard at corner of Second and Court streets, on base of south side of Soldiers Monument; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 377 A)	527.728
Brush Creek Island, 2,000 feet below, on east wing wall of north end of Chesapeake & Ohio Ry. culvert over Cummings Branch; cut marked " \square " (U. S. C. E. b. m. 387 A)	484.251
Concord, near upper end of, on river face of northwest pier of Chesapeake & Ohio Ry. bridge over Sycamore Creek, 45 feet below top of rails; cut marked "U. S. B. M. \square " (U. S. C. E. b. m. 389 A)	471.300

RECTORVILLE QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 83° 30'-83° 45'.]

From Concord along Ohio River to Springdale.

Bridge No. 594.1 (Chesapeake & Ohio Ry.), over Crooked Creek, on first course of stone below cushion stone of southwest abutment, on southwest corner of stone; cut marked " \square " (U. S. C. E. b. m. 400 A)	509.949
Springdale, Chesapeake & Ohio Ry. bridge over Cabin Creek, on top of cushion stone on north corner of pier; cut marked "U. \square S." (U. S. C. E. b. m. 401 A)	507.815

MAYSVILLE QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 83° 45'-84°.]

From Springdale along Ohio River to Stony Point.

Maysville, at southwest corner of Court and Second streets, on top of water table of northeast corner of building occupied by the State National Bank, 4.5 feet above sidewalk; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 407 A)	524.476
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Maysville, near Maysville gas works, at northwest corporation line of Maysville, on down-river wing wall at east end of culvert of Chesapeake & Ohio Ry. over Little Beasley Creek, on top of 10th course of stone from top of culvert; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 408 A)...	Feet. 492. 604
Ripley, Ohio, 600 feet above waterworks at, on downstream face of wing wall of Chesapeake & Ohio Ry. culvert over Ross Creek, on top of 10th course of stone from top of culvert; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 415 A).....	489. 552

GEORGETOWN QUADRANGLE.

[Latitude 38° 45'-39°; longitude 83° 45'-84°.]

From Stony Point along Ohio River to point near Wellsburg.

Stony Point, 1.8 miles above Higginsport, Ohio, on downstream wing wall, river end of abutment of Chesapeake & Ohio Ry. bridge No. 615.6 (girder) over road, on 15th course of stone from top of abutment; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 421 A).....	488. 006
Augusta, southeast corner of Front and Upper streets, on stone water table of brick building (Smith's Hotel in 1900), 18 feet south of northwest corner; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 425 A).....	504. 504

BETHEL QUADRANGLE.

[Latitude 38° 45'-39°; longitude 84° 15'-84° 15'.]

From point near Wellsburg along Ohio River to New Richmond.

Wellsburg, 2.5 miles above, on culvert of Chesapeake & Ohio Ry. over Wrangling Run, on third course of stone from top of culvert, on downstream (west) wing wall at north end of culvert; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 429 A).....	472. 990
Wellsburg, 0.5 mile above, on downstream (west) abutment of Chesapeake & Ohio Ry. bridge No. 625.1 over Big Locust Creek, on third course of stone above ground (1900) facing Locust Creek and 10 feet from south side of abutment; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 431 A)....	460. 565
Foster, on top of base stone (near ground) of west abutment of Chesapeake & Ohio Ry. girder bridge over Holts Creek, at northeast corner of abutment; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 437 A).....	457. 690
Carntown, 3,000 feet below, on Chesapeake & Ohio Ry. culvert over Little Stepstone Creek, on 8th course of stone above base stone of downstream wing wall, river end; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 440 A).....	472. 301

MORNING VIEW QUADRANGLE.

[Latitude 38° 45'-39°; longitude 84° 15'-84° 30'.]

From New Richmond along Ohio River to Eightmile dike.

New Richmond, pump house of water works, on top of stone water table of northeast side, 2 feet northwest of east corner of building; cut marked "U. \square S." (U. S. C. E. b. m. 448 A).....	497. 340
New Richmond, 1.2 miles below, Chesapeake & Ohio Ry. bridge over Kentucky Twelvemile Creek, on capstone of foundation of upstream (south) pier, on downstream corner of river side of pier; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 450 A).....	450. 475

EAST CINCINNATI QUADRANGLE.

[Latitude 39°-39° 15'; longitude 84° 15'-84° 30'.]

At Newport.

Newport, at south end of Newport-Cincinnati bridge (Louisville & Nashville R. R.), on east end of bridge seat of first pier south of overhead superstructure, 0.19 meter north of retaining wall, 0.59 meter west of east end of bridge-seat stone, 0.3 meter below surface of sidewalk; copper bolt lettered "U. S. C. □ & G. S." (C. & G. S. "A").....	Feet. 512. 442
Newport, 3 feet west of Cincinnati, Newport & Covington Electric Ry., at south end of Newport-Cincinnati bridge, on end of stone of coping, about 12 inches above level of street, being highest point in square hole cut in surface of stone, 9 inches east of west face, 8 inches south of north face, and 6 inches north of iron pole set in center of stone; marked "U. S. □ B. M." (U. S. C. E. b. m.).....	500. 437

From Eightmile dike along Ohio River to Cincinnati, Ohio.

Eightmile dike, directly south of 2½-story frame house, southeast of Government light, 148.21 feet north of 10-inch willow tree, 123.14 feet north-east of 8-inch willow tree, southwest of cedar tree on hill on opposite bank of river; spike in timber in dike (U. S. C. E. b. m. 455 A).....	450. 555
Brent, 800 feet above station, Chesapeake & Ohio Ry. bridge No. 653.4 over road, on capstone of south face of east abutment, 10 feet southeast of northwest end of abutment; cut marked "U. □ S." (U. S. C. E. b. m. 460 A).....	496. 274
Covington, 25 feet west of northeast corner, on north face of stone foundation of water works pump house, 28th course of stone from brickwork down; cut marked "U. S. □" (U. S. C. E. b. m. 461 A).....	469. 951
Newport, on west face of water works pump house, 30.2 feet south of northwest corner, 8th course below and 7.7 feet south of iron window casement; cut marked "□" (U. S. C. E. b. m. 462 A).....	449. 230

WEST CINCINNATI QUADRANGLE.

[Latitude 39°-39° 15'; longitude 84° 30'-84° 45'.]

At Ludlow.

Ludlow, opposite Cincinnati, Ohio, on Southern Railroad bridge, on south pier, under long span (529 feet), being north pier of draw span, on top surface of stone bridge seat of long span, upriver side, under end of ties, 16 inches south of bed plate of truss, 22 inches north of offset in masonry down to bridge seat of draw span, in top of stone; brass bolt lettered "U. S. C. & G. S.".....	533. 135
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From Covington south along Cincinnati, New Orleans & Texas Pacific Ry. to Erlanger.

Covington, on south side of Third Street, east of north entrance to Covington post office, in first course of limestone below water table, 1.2 meters above surface of ground, 6 inches west of east end of first stone east of stairway; copper bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "B")....	513. 607
Ludlow, north side of station, on south abutment of viaduct under track, at east end of abutment, 2.2 meters below track, on second step of abutment, 8 inches west of east face, 4½ inches south of north face, 17 inches east of first step; square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "C").....	531. 935

Crescent Springs, at overhead road crossing east of station, 2.4 meters south of south rail of track, about level with rail on center of large base stone supporting the center of bridge, 0.15 meter back of edge of stone, 0.5 meter east of west center pier, and 0.6 meter west of east center pier; square hole cut in stone lettered "U. S. C. \square & G. S." (C. & G. S. "D").	Feet. 779.115
Erlanger, on town hall building, on northeast corner of Lexington and Commonwealth avenues, on top of an iron plate covering a foundation stone, 0.25 meter west of corner iron column and one-half inch north of south face; center of square cut in surface of plate with cold chisel (C. & G. S. "E").....	915.403

From Cincinnati, Ohio, along Ohio River to Constance.

Bellevue, 70 feet southwest of Washington Avenue, on west wing wall of sewer, 3 feet below top and 5.5 feet southeast of northwest end of wing wall; cut marked "U. \square S." (U. S. C. E. b. m. 466 A).....	445.401
Cincinnati waterworks pump house, on top stone of east retaining wall, 1.2 feet south of stone cross wall, 27 feet north of southeast corner of lower stone wall; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 467 A)....	467.998
Cincinnati, zero of gage near waterworks.....	429.520
Cincinnati, lower mark at gage near waterworks.....	431.420
Newport, on northeast end of Kentucky land pier of Newport-Cincinnati highway bridge, 2 feet above ground; cut marked "U. S. \triangle H." (U. S. C. E. b. m. 468 A). (This mark is also a harbor line reference point)...	483.147
Covington, south face of pier of Covington-Cincinnati highway suspension bridge, on east side of bridge, 3 feet above ground; cut seat marked " \square " (U. S. C. E. b. m. 468 B).....	450.169
Covington, on east end of land pier of Chesapeake & Ohio Ry. bridge across Ohio River, 2 feet above ground; cut marked " \triangle U. S. H." (U. S. C. E. b. m. 469 A).....	473.167
Ludlow, on south side of circular pier of Cincinnati Southern R. R. bridge across Ohio River, 4 feet above ground; cut marked "U. S. \square B. M." (U. S. C. E. b. m. 470 A).....	445.650
Bromley, directly south of Catholic Church spire on opposite side of river, southeast of highest stack of Fleishmann's distillery on opposite side of river, east of Government light, north of one-story frame house; metallic bench mark buried in ground about 2 feet below surface (U. S. C. E. b. m. 472 A).....	454.689
Cullom's dike, opposite root of, between first and second rows of trees at extreme top of river bank and between 11th and 12th rows of trees counting from small ravine at down-river end of cherry orchard; metallic bench mark sunk 2 feet below surface of ground (U. S. C. E. b. m. 473 A).	480.732
Constance, on stone lintel of window on north face of residence of C. Kottmyer, 10.7 feet east of north corner of house which is 300 feet from top of river bank and north and east of roads; cut marked "U. \square S." (U. S. C. E. b. m. 475 A).....	492.955

WALTON QUADRANGLE.

[Latitude 38° 45'-39°; longitude 84° 30'-84° 45'.]

From Erlanger south along Cincinnati, New Orleans & Texas Pacific Ry. to Sherman.

Dixon, 125 meters north of station, on line of Cincinnati, New Orleans & Texas Pacific Ry., 2.25 meters west of west rail and 0.25 meter above it, on large capstone between brick piers supporting a bridge, 7 inches back from face and 1.28 meters south of south side of center pier; bottom of square hole cut in stone lettered "U. S. C. \square & G. S." (C. & G. S. "F").....	925.209
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Richwood, 300 meters south of station, 85 meters west of track, at north-east corner of water table of brick dwelling belonging to the heirs of Reuben Connors, 0.96 meter south of north corner of house, in stone or brick wall; copper bolt lettered "U. S. C. \ominus & G. S." (C. & G. S. "G").	Feet. 938. 810
Walton, 600 meters south of station, at overhead wagon bridge, 1.3 meters west of and 1.8 meters above west rail, on top of wall between pillars supporting bridge, 1.92 meters north from south wall, and 1.15 meters back from face; bottom of square hole cut in stone lettered "U. S. \square B. M." (C. & G. S. "H").....	913. 819
Crittenden, 1.5 miles north of, on culvert in Kenton County, opposite George Slett's, on line of Cincinnati, New Orleans & Texas Pacific Ry., 130 feet north of milepost "Cin. 23," 28 feet east of east rail, on coping stone at east end of culvert, 0.42 meter south of center of culvert and 5½ inches back from its face; bottom of square hole cut in stone lettered "U. S. C. \square & G. S." (C. & G. S. "I").....	895. 794
Crittenden, in south face of foundation of Joe Collins's house, 50 meters west of Cincinnati-Lexington turnpike, 2.18 meters east of southwest corner of house, in first course below the baseboard and 122 millimeters below same; copper bolt lettered "U. S. C. \ominus & G. S." (C. & G. S. "J").	923. 769

WILLIAMSTOWN QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 84° 30'-84° 45'.]

From Sherman south along Cincinnati, New Orleans & Texas Pacific Ry. to Corinth.

Sherman, 210 feet below station, 4.2 meters east of east rail, in northwest corner of capstone of northwest pillar of water tank (311); bottom of square hole lettered "U. S. C. \square & G. S." (C. & G. S. "K").....	934. 678
Dry Ridge, in front of Bradford's residence, 1.15 meters south of iron gate, 0.56 meter below coping of wall, 0.54 meter above ground, in retaining wall on west side of Lexington turnpike; horizontal chisel mark in end of copper bolt (C. & G. S. "L").....	958. 038
Williamstown, about 50 feet west of Main Street (Lexington turnpike), on south side of alley, in north face of foundation of county record office, 3.11 meters east of northwest corner of building, 0.66 meter above brick walk, 0.39 meter below the lower edge of sandstone water table; copper bolt lettered "U. S. C. \ominus & G. S." (C. & G. S. "M").....	974. 619
Mason, 100 meters north of station, on south side at west end of stone culvert, on a step 0.623 meter below coping stone and 6 inches back from face; bottom of square hole cut in stone, lettered "U. S. C. \square & G. S." (C. & G. S. "N").....	915. 051
Blanchett, 0.7 mile north of, at overhead wagon bridge No. 12, on line of Cincinnati, New Orleans & Texas Pacific Ry., 2.1 meters east of east rail and 0.5 meter above it, 3.62 meters south of north end of foundation, on fourth capstone from north end, and 0.15 meter from its west face; bottom of square hole cut in stone, lettered "U. S. C. \square & G. S." (C. & G. S. "O").....	941. 505
Corinth, about 70 meters west of station on west side of Main street, in south side of foundation of store owned by Joe S. Horner, 5.2 meters west of southeast corner, 1.49 meters above ground, 0.25 meter below baseboard; copper bolt lettered "U. S. C. \ominus & G. S." (C. & G. S. "P").....	958. 894

SADIEVILLE QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 84° 30'-84° 45'.]

From Corinth south along Cincinnati, New Orleans & Texas Pacific Ry. to point near Georgetown.

Hinton, 50 feet south of station, 80 feet west of railroad track, in north face of store of R. Lancaster, 0.31 meter west of east corner of building, 0.7 meter above ground and 0.2 meter below baseboard; horizontal V-shaped groove in bottom of square cut lettered "U. S. C. □ & G. S." (C. & G. S. "Q").....	Feet. 953. 430
Sadieville, about 2 meters below level of Cincinnati, New Orleans & Texas Pacific Ry., on south abutment of an iron bridge over a street, on west end of top through course below the bridge-seat stone, midway between the north and south faces of stone, and 8 inches west of west face of bridge-seat stone; copper or brass bolt leaded vertically into stone or brick lettered "U. S. C. ⊖ & G. S." (C. & G. S. "R").....	858. 594
Sadieville, 3.25 miles south of, on north side of west end of viaduct or culvert, on northwest corner of large coping stone, 10 inches from west face and 6 inches from north face; bottom of square hole cut in stone, lettered "U. S. C. □ & G. S." (C. & G. S. "S").....	865. 626
Rogers Gap, 50 meters north of station, on north end of west side of culvert under track, 3 inches east of west face and 12½ inches south of north face; bottom of square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "T").....	903. 533
Kinkaid, 0.8 mile south of, on south abutment of east end of bridge (No. 15) over Dry Run Creek, on coping stone midway between its north and south faces, 18 inches west of the east face and 2 meters below tracks; bottom of square hole cut in stone, lettered "U. S. C. □ & G. S." (C. & G. S. "U").....	836. 842

GEORGETOWN QUADRANGLE.

[Latitude 38°-38° 15'; longitude 84° 30'-84° 45'.]

From point near Georgetown south along Cincinnati, New Orleans & Texas Pacific Ry. to point near Brannon.

Georgetown, 0.8 miles north of station, at overhead bridge No. 19, on coping stone of pier, 2.26 meters west of west rail, and 3.15 meters north of its south end, at same elevation as top of rail; bottom of square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "V").....	855. 799
Georgetown, 75 feet southwest of station, on northeast corner of foundation of warehouse of E. N. Offutt & Son, on west side of Maddox Street, 110 feet north of Jackson Street, in north face of foundation, 6 inches west of corner and 0.83 meter above ground; copper bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "W").....	877. 049
Donerail, 12 meters north of milepost 71, 590 meters north of station, on northeast corner of coping stone over east end of arched culvert under track, 8 inches south of north face and 17 inches west of east face; bottom of square hole cut in top of stone, marked "U. S. C. □ & G. S." (C. & G. S. "X").....	870. 742
Greendale, 175 meters south of station, on northwest corner of coping stone over arched culvert under tracks, 10 inches east of west face and 6 inches south of north face; bottom of square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "Y").....	935. 853

Hillenmeyer, 150 meters south of station, on west end of south side of trestle over wagon road, on bridge-seat stone, 6 inches south of its north face and 10 inches east of its west face; bottom of square hole cut in stone, lettered "U. S. C. \square & G. S." (C. & G. S. "Z").....	Feet. 939. 478
Lexington, at northwest corner of South Broadway and Maxwell Streets, Renick & Thompson's drug store, at north stairway entrance, in center of west end of door stone, 5 inches east of its west end and 4 inches above concrete walk; copper or brass bolt leaded vertically into stone or brick lettered "U. S. C. \ominus & G. S." (C. & G. S. "A ₁ ").....	979. 552
Lexington, 3.8 miles south of, in front of Bedford's farm, on south side of viaduct under railway, on second step below bridge-seat stone, 3½ inches from front face of first step, 10 inches north of south face and 10 inches west of east face of stone; bottom of square hole cut in stone lettered "U. S. C. \square & G. S." (C. & G. S. "B ₁ ").....	1, 011. 043
Brannon, 340 meters south of station, on north side of west end of Lyne's arched culvert, on first step, 5 inches west of capstone and 5 inches north of its south face; bottom of square hole cut in stone lettered "U. S. C. \square & G. S." (C. & G. S. "C ₁ ").....	1, 028. 629

NICHOLASVILLE QUADRANGLE.

(Latitude 37° 45'-38"; longitude 84° 30'-84° 45'.)

From point near Brannon southwest along Cincinnati, New Orleans & Texas Pacific Ry. to Burgin.

Brannon, 1.8 miles south of, on viaduct over Catnip Hill pike, on north side of west end, on first step below bridge-seat stone, 4 inches from its west-face stone, 15 inches north of south face of step; bottom of square hole cut in stone, lettered "U. S. C. \square & G. S." (C. & G. S. "D ₁ ").....	975. 053
Nicholasville, 150 meters north of station, on top foundation stone of overhead wagon bridge, 1.6 meters east of and 8 inches above east rail of railroad, 2.3 meters south of north end of foundation, about midway between ends of second stone, 6½ inches east of west face of stone, 6 inches west of bottom stringer of bridge; bottom of square hole cut in stone lettered "U. S. C. \square & G. S." (C. & G. S. "E ₁ ").....	951. 170
Nicholasville courthouse, in first stone of water table east of corner stone at northwest corner of main building, midway between upper and lower edges, 1 meter above ground and 7 meters east of corner; brass bolt lettered "U. S. C. \ominus & G. S." (C. & G. S. "F ₁ ").....	947. 028
Jessamine, 50 meters south of station, on viaduct over Lass Mill pike, at south side of east end, on bridge-seat stone, 8 inches east of coping stone, 18 inches south of north face and 18 inches west of east face of bridge-seat stone; bottom of square hole cut in stone lettered "U. S. C. \square & G. S." (C. & G. S. "G ₁ ").....	885. 609
Wilmore, 60 meters northwest of station, on south side of main cross street, at east side of entrance to Wilmore Mercantile Co.'s store, on northeast corner of iron plate under iron column; being top surface circumscribed by two lines ⅛-inch deep, cut at right angles with cold chisel (C. & G. S. "H ₁ ").....	878. 182
High Bridge, 2.8 miles north of, 54 meters north of overhead wagon bridge of Pleasant Hill and Jessamine County pike, 0.27 meter below and 1.85 meters west of west rail of track of Cincinnati, New Orleans & Texas Pacific Ry.; square cut on shelf of rock in situ (an arrow is cut in rock 10 inches above bench mark and pointing to it) (C. & G. S. "I ₁ ").....	897. 056

High Bridge, 70 meters south of station, on west side of bridge over Kentucky River, at north end, on coping stone of abutment, 0.25 meter east of west face, 1.56 meters north of south face, 0.5 meter below and 2.75 meters west of west rail of railroad; brass bolt lettered "U. S. C.⊕ & G. S." (C. & G. S. "J ₁ ").....	Feet. 763. 888
High Bridge, 0.25 mile south of, 36 meters south of south side of south pier of proposed suspension bridge over Kentucky River, 2.62 meters west of and 1.34 meters above west rail, in center of old drill hole made when rock was blasted out for cut of Cincinnati, New Orleans and Texas Pacific Ry.; brass bolt, lettered "U. S. C.⊕ & G. S." (C. & G. S. "K ₁ ").....	769. 965
High Bridge and Burgin, about midway between, $\frac{1}{10}$ -mile south of milepost "Cin. 103," 160 meters north of Curdville road crossing, on coping stone of box culvert, on east side of north end, 12 inches from north, east, and west faces; bottom of square hole cut in stone lettered "U. S. C.□ & G. S." (C. & G. S. "L ₁ ").....	869. 379

TALMAGE QUADRANGLE.

[Latitude 37° 45'-38°; longitude 84° 45'-85°.]

At Burgin.

Burgin, 300 feet southwest of southwest corner of station, in east foundation wall of Burgin Roller Mills owned by Cook & Spencer, 33 feet north of southeast corner, 22 inches above ground and 4½ inches below tin siding; brass bolt lettered "U. S. C.⊕ & G. S." (C. & G. S. "M ₁ ").....	901. 169
Burgin, 330 meters east of railroad track, on north side of Main Street, 35 feet east of east line of Maple Street, on east end of iron base plate under a window of J. P. Miller Building, 6 inches west of east buttress close to front edge of plate; surface of plate within a 1-inch square cut with a cold chisel (C. & G. S. "N ₁ ").....	897. 334

MITCHELLSBURG QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 84° 45'-85°.]

From Burgin south along Cincinnati, New Orleans & Texas Pacific Ry. to Moreland.

Faulconer, 168 meters south of center of road crossing, 7.55 meters west of west rail of main track, 32 millimeters above grade of track, 24 meters west of center of stone wall at east boundary of railroad right of way, 96 meters north of southern switch block of siding; square hole cut in rock, lettered "U. S. G. S." (C. & G. S. "O ₁ ").....	889. 814
Danville, 2.3 miles north of, on east side at north end of culvert, 16 meters north of J. C. Cowell road crossing, on coping stone, 0.3 meter below and 2.1 meters east of east rail, 93 millimeters west of east face and 3.18 millimeters south of north face of stone; bottom of square hole cut in stone, lettered "U. S. C.□ & G. S." (C. & G. S. "P ₁ ").....	921. 495
Danville, 46 meters south of intersection of Depot and Main streets, in northwest corner of foundation of Theological Building of Center College, in large stone, 31 inches below water table, 33 inches above ground, 18½ feet west of doorway, 16½ feet east of northwest corner of building; brass bolt lettered "U. S. C.⊕ & G. S." (C. & G. S. "Q ₁ ").....	988. 467
Junction City, 0.8 mile north of, in rock cut, 101 meters south of yard-limit post, 43 meters north of milepost "Cin. 117," 2.16 meters west of and 30 millimeters above west rail; marked by an arrow 1.25 meters above and pointing toward it; bottom of square hole cut in stone, lettered "U. S. C.□ & G. S." (C. & G. S. "R ₁ ").....	1, 027. 957

Junction City, 1.25 miles south of, at bridge No. 41, 122 meters south of Lincoln-Boyle county line, 59 meters south of a water tank, on line with north face of south abutment of bridge, 3.25 meters west of and 2.86 meters below west rail, on coping stone of south end of circular dam of a reservoir; bottom of square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "S ₁ ").....	Feet. 949. 930
Moreland, about 2.6 miles north of, at Bowen Coal Chutes, 212 meters north of north end of bridge No. 43, 90 meters north of water-tank standpipe, 6 meters north of second chute from north end, 1.57 meters west and 0.07 meter above west rail of railway, marked by an arrow 7 inches above and pointing to it; bottom of square hole cut in stone, lettered "U. S. C. □ & G. S." (C. & G. S. "T ₁ ").....	994. 266
Moreland, 230 meters southeast of station, 45 meters west of west rail, in east side of brick foundation of B. P. Shewmaker's residence, 10½ inches above ground, 4 inches below weatherboarding, 8.7 feet north of southeast corner, 11.7 feet south of northeast corner; brass bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "U ₁ ").....	1, 094. 119

HUSTONVILLE QUADRANGLE.

[Latitude 37° 15'–37° 30'; longitude 84° 45'–85°.]

From Moreland southeast along Cincinnati, New Orleans & Texas Pacific Ry. to McKinney.

McKinney, 2 miles north of, 2.8 miles south of Moreland, on east side of south abutment of bridge (No. 45) over Rolling Creek, 4 inches back from east face of abutment, 3 meters south of northeast corner and 0.83 meter below rail; bottom of square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "V ₁ ").....	958. 277
McKinney, 255 meters south of station, in center of rock cut, on largest plane-faced rock, surface 7 by 8 feet, at west side, 2.02 meters from and 1.03 meters above west rail; brass bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "W ₁ ").....	1, 011. 386

CRAB ORCHARD QUADRANGLE.

[Latitude 37° 15'–37° 30'; longitude 84° 30'–84° 45'.]

From McKinney southeast along Cincinnati, New Orleans & Texas Pacific Ry. to Eubank.

McKinney, 2.3 miles south of, on south abutment of bridge No. 47 at Green River, at east end of bridge, just west of south end of overhead truss, in bridge seat stone, 6 inches north of coping, 17 inches east of west face and 1.2 meters west of east face; bottom of square hole lettered "U. S. C. □ & G. S." (C. & G. S. "X ₁ ").....	913. 477
Kings Mountain, 3.2 miles north of, at south end of South Fork trestle, on east end of lower shelf of south abutment supporting iron stringers, 1.45 meters below and 1.2 meters east of east rail, 6.5 meters from south end of abutment, 4 inches west of east face and 21 inches south of north face; bottom of square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "Y ₁ ").....	1, 000. 779
Kings Mountain, 506 meters north of station, at south end of tunnel No. 2, 1.06 meters above and 1.95 meters east of east rail, in south face of wall and 8 inches east of corner; brass bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "Z ₁ ").....	1, 159. 137

Waynesburg, 316 meters south of station, 3.74 meters west of and 1.28 meters below west rail, on south end of large coping stone of stone box culvert, 7½ inches east of west face and 7½ inches north of south face; bottom of square hole lettered "U. S. C. □ & G. S." (C. & G. S. "A₂").....	Feet. 1, 212. 313
Eubank, 725 meters north of station, on west end of heavy stone box culvert, 4.4 meters west of and 2.17 meters below west rail, in heavy covering stone below coping, 3½ inches south of south wall and 8 inches above opening; brass bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "B₂")....	1, 168. 427

SOMERSET QUADRANGLE.

[Latitude 37°-37° 15'; longitude 84° 30'-84° 45'.]

From Eubank south along Cincinnati, New Orleans & Texas Pacific Ry. to Burnside.

Floyd, 200 meters south of center of station platform, just north of road crossing, on west side of south end of a very large arched culvert or viaduct, on second step below coping, about 11 meters west of and 4.6 meters below the west rail, midway between the west face of first step and edge of second step, 5½ inches south of north face; bottom of □ hole cut in top of stone lettered "U. S. C. □ & G. S." (C. & G. S. "C₂").....	1, 116. 789
Pulaski, 0.3 mile north of, 7.3 meters east of and 3.9 meters below top of east rail on east end of culvert in front of George Shumer's farm, 1 foot from east edge and 2¼ inches south of north face; bottom of square hole cut in top of stone lettered "U. S. C. □ & G. S." (C. & G. S. "D₂").....	1, 117. 342
Science Hill, 172 meters west of station, in south side of foundation of Methodist Episcopal Church, 4 feet 2 inches east of southwest corner, 11 inches below weatherboarding, 2 feet 3 inches above ground; brass bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "E₂").....	1, 125. 010
Norwood, 1 mile south of station, on south side at east end of arched stone culvert, on first step below coping, 6 inches west of east face, 5½ inches south of north face, about 3.4 meters below top of east rail; bottom of square hole cut in stone lettered "U. S. C. □ & G. S." (C. & G. S. "F₂").....	1, 072. 671.
Somerset, 1.8 miles north of, in rock cut, 271 meters north of milepost 156, 306 meters north of center of road crossing, on largest plane-faced rock in place, 75 feet from north end and 110 feet from south end of cut, 2.9 meters west and 0.8 meter above west rail; brass bolt lettered "U. S. C. ⊖ & G. S." (C. & G. S. "G₂").....	958. 795
Somerset, on east side of arched stone culvert about 200 yards north of station, on top course of masonry, 5 inches from edge of course and 20 inches east from south angle formed by culvert and wall, 15 inches from lower bent sill of trestle and near batter post, north end of siding. (The batter post is blazed at its inner edge, where it connects with bent sill); bottom of square hole cut in stone lettered "U. S. □ B. M." (C. & G. S. "A₃").....	859. 658
Somerset, at entrance of Cumberland Hotel, near center of large sandstone block in second course from sidewalk, under column supporting north part of arch; intersection of two lines on head of leaded copper bolt (C. & G. S. "B₃").....	879. 279
Somerset, on water tank south of roundhouse, in top of second sandstone block from top supporting the northeast one of four inner columns under tank, 1 inch from north edge and 3 inches from east edge of block; bottom of square hole, lettered "U. S. □ B. M." (C. & G. S. "C₃").....	892. 742

Somerset, near, about 20 rails south of railroad sign "Corporation Somerset Line," in top of large rock in place, 30 feet north of telegraph pole marked "15/159," 22 feet north of signpost marked "W/X," 12 feet east from rail of east track, 1 foot from west edge of rock, and in line between middle two of four drill holes, used in breaking a piece from the rock; bottom of square hole cut in brick or stone, not lettered (C. & G. S. "D ₅ ").....	Feet. 880.455
Burnside, 2 miles north of, about one-half mile north of two tunnels, on rock near south end of large cut, 6 rails north of post marked "Cha. 172 Cin. 163," across track from signpost marked "X/W," about 8 feet from outer rail on a curve and 3 inches from edge of rock nearest rail; bottom of square hole cut in top of brick or stone, not lettered (C. & G. S. "E ₅ ").	817.509

BURNSIDE QUADRANGLE.

[Latitude 36° 45'-37°; longitude 84° 30'-84° 45'.]

From Burnside southeast along Cincinnati, New Orleans & Texas Pacific Ry. to Greenwood.

Burnside, in rock in place, 8 paces south of a block-signal alarm near station, 9 paces from nearest rail, 8 inches from stone wall, 2 inches from each side of an angle on top surface of rock; bottom of square hole (C. & G. S. "F ₅ ").....	772.086
Sloans Valley, about 0.5 mile north of, on top surface of small bridge seat south of tunnel No. 5, in east stone of south abutment, 6 inches from east and south edges of stone; bottom of square hole not lettered (C. & G. S. "G ₅ ")	920.075
Alpine, north of, on bridge seat at south end of long trestle (No. 61), on east side of track, 2 inches from east and north edges of stone; bottom of square hole not lettered (C. & G. S. "H ₅ ").....	951.633
Greenwood, opposite station, in stone post set just back of railroad right of way; square hole lettered "U. S. □ B. M." (C. & G. S. "I ₅ ").....	1,192.631

PARKERS LAKE QUADRANGLE.

[Latitude 36° 45'-37°; longitude 84° 15'-84° 30'.]

From Greenwood south along Cincinnati, New Orleans & Texas Pacific Ry. to Whitley.

Flat Rock, about 150 feet north of station, 6 feet east of second telegraph pole north of station, about 6 feet below level of railroad track; bottom of square hole cut in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. "J ₅ ").....	1,291.184
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STEARNS QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 84° 15'-84° 30'.]

From Whitley south along Chicago, New Orleans & Texas Pacific Ry. to point near Strunk.

Whitley, in line with and between first and second telegraph poles north of T. J. Wilson's store, 6 feet from first pole and 25 feet east of railroad track, across tracks from large wooden water tank, near a mill, three telegraph poles south of station; bottom of square hole cut in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. "K ₅ ").....	1,317.406
Pine Knot, on right of way, about 75 yards south of station, on opposite side of track, 3 feet from fence and 20 feet from nearest rail of siding, across tracks from three large trees close together and in line parallel to tracks; bottom of square hole cut in top of limestone post, lettered "U. S. □ B. M." (C. & G. S. "L ₅ ").....	1,411.445
Strunk, near, about 0.5 mile north of Isham, on stone forming bridge seat on east side of north abutment of trestle No. 71, about 3 inches from south edge and 2 inches from east edge of stone; square hole not lettered (C. & G. S. "M ₅ ").....	1,362.555

LAWRENCEBURG QUADRANGLE.

[Latitude 39°-39° 15'; longitude 84° 45'-85°.]

From Constance along Ohio River to Petersburg.

Big Miami River, 2 miles above, on stone set in ground 1½ feet below surface in axis (produced) of old upper diagonal dike at Medoc Bar, 19.7 feet west of large tree, 16.5 feet east of willow tree; cut marked "U. S. □D1" (U. S. C. E. b. m. 487 A).....	Feet. 442.237
Petersburg, north of Boone County distillery; metallic bench mark sunk in ground (U. S. C. E. b. m. 493 B).....	448.218
Petersburg, north of Boone County distillery; seat cut in large granite bowlder, marked "U. S. □B. M." (U. S. C. E. b. m. 493 A).....	447.323

RISING SUN QUADRANGLE.

[Latitude 38° 45'-39°; longitude 84° 45'-85°.]

From Rising Sun along Ohio River to Warsaw.

Rising Sun, Ind., on water table on south side of brick building at northwest corner of Main and Poplar streets; seat cut in water table west of southeast corner (U. S. C. E. b. m. 504 A).....	495.073
Sugar Creek Landing, Ky., in road in Sugar Creek Landing just below Sugar Creek; on bowlder (U. S. C. E. b. m. 520 A).....	434.353
Warsaw, Ky., on foundation of Gallatin County courthouse, 4.8 feet west of north entrance (U. S. C. E. b. m. 525 A).....	494.790

CAMPBELLSBURG QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 85°-85° 15'.]

From Ghent, Ky., along Ohio River to Madison, Ind.

Ghent, Ky., on southwest corner of concrete portico of Baptist Church; square cut (U. S. C. E. b. m. 535 A).....	495.050
Carrollton, Ky., on stone water table on east side of courthouse (U. S. C. E. b. m. 543 A).....	475.067
Carrollton, on northeast corner of eastern pedestal north side of bridge over Kentucky River, 40 feet west of First Street (U. S. C. E. b. m. 543 B).....	452.143
Lock No. 1, Kentucky River, top of inner lock wall, 10.5 feet downstream from upper gate, 0.65 foot from face of wall; (U. S. C. E. b. m. 543 C).....	437.063

BEDFORD QUADRANGLE.

[Latitude 38° 30'-38° 45'; longitude 85° 15'-85° 30'.]

At Madison, Ind.

Madison, at west entrance to courthouse on north side of top step; (U. S. C. E. b. m. 555 A).....	500.725
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PROSPECT QUADRANGLE.

[Latitude 38° 15'-38° 30'; longitude 85° 30'-85° 45'.]

Above Louisville, Ky.

Louisville, Ky., above, on south side of stone sill of grated window in west side of stone pump house (Louisville pump house) (U. S. C. E. b. m. 598 A).....	420.593
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LOUISVILLE QUADRANGLE.

(Latitude 38°-38° 15'; longitude 85° 30'-85° 45'.)

At Louisville.

Louisville, Ky., on southwest corner of north pedestal under elevated railroad east side of First Street (U. S. C. E. b. m. 601 A).....	Feet. 444. 152
Louisville, on north guard gate abutment of new lock, 58.3 feet east of bridge, 10.3 feet north of south face of abutment; marked X mark and elevation 76.874 (U. S. C. E. b. m. 2).....	444. 435

NEW ALBANY QUADRANGLE.

(Latitude 38° 15'-38° 30'; longitude 85° 45'-86°.)

From Louisville along Ohio River to head of Hughes Bar.

Louisville, in rear of power house, upper lock chamber, Louisville and Portland Canal, near foot of revetment and stone steps; 276° 24' on southeast corner of middle power house south wall of 80-foot lock, 303° 47' 30'' northeast corner of corresponding house on north wall, 7.11 feet, 65° 43' to eyebolt top of wall, 18.5 feet, 148° 39' to cross on step; top of iron post (U. S. C. E. p. b. m. 604).....	429. 595
Louisville, at mouth of 34th Street sewer, in west face of downstream side, 5 feet south of northwest corner, 1 foot north of southwest corner, 6 feet below top of sewer; cut in stone seat lettered "U.S.□B.M." (U. S. C. E. p. b. m. 604 A).....	398. 518
New Albany, opposite Barth Leather Co. building, 800 feet upstream from old two-story brick residence on Kentucky shore (house has portico facing river), 1,245 feet below North 35th Street sewer; 77.44 feet, 158° 31' 10'' to 5-inch cottonwood tree, 83.28 feet, 202° 32' 50'' to 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 605).....	402. 825
New Albany pumping station and sawmill, opposite lower old frame house between, directly opposite upper end of rock ledge above Falling Run, 3 feet below surface of ground under box lid; 19.94 feet, 85° 35' to 7-inch willow tree, 45.18 feet 132° 27' 30'' to 7-inch willow tree, 50.90 feet, 201° 19' to 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 606)....	407. 514
Fontaine Ferry Park, at top of bank, 360 feet above steps to bathing beach and 250 feet above bath houses, opposite a point midway between brick house and upstream end of rock ledge; 13.72 feet, 82° 36' to 7-inch willow tree, 41.40 feet, 58° 49' 20'' to 12-inch cottonwood tree, 43.32 feet, 212° 03' to 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 607)...	407. 872
Fontaine Ferry Park, below, at mouth of Broadway sewer, seventh bolt in land side row counting downstream; cross cut in anchor bolt; capstone of sewer cut and lettered "U.S.+B.M." (U. S. C. E. p. b. m. 607 A)...	402. 716
Louisville, 15 feet down from dancing pavilion at Riverview Park, at top of first bank opposite a point 200 feet below white frame house on Indiana side, standing gable end to river, 130 feet below steps to Riverview Park; top of iron pipe (U. S. C. E. p. b. m. 608).....	415. 939
Upper Paddys Run, mouth of, 15 feet back from top of first bank, opposite one-story yellow frame house on Indiana side (house is under large silver poplar and faces Kentucky); 31.58 feet, 95° 40' 20'' to 9-inch willow tree 18.62 feet, 170° 13' to 18-inch cottonwood tree, 13.65 feet, 312° 26' 20'' to 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 609).....	404. 814
Louisville, 6 miles below, at top of first bank, 800 feet below frame house on Indiana shore (new house painted a drab or stone color and has metal roof), 600 feet above new house is deserted frame house; 4.72 feet, 346° 11' to 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 610)....	401. 503

KOSMOSDALE QUADRANGLE.

[Latitude 38°-38° 15'; longitude 85° 45'-86°.]

From Hughes Bar along Ohio River to West Point.

Louisville, 7 miles below, 15 feet back from top of first bank, opposite a point midway between whitewashed barn and frame house on Indiana side, 1,000 feet upstream from white brick house on Kentucky shore at head of Hughes Bar; 3.97 feet 145° 35' to 10-inch cottonwood tree, 24 feet 317° 31' 20'' to 14-inch cottonwood tree, 37.90 feet 10° 52' to 10-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 611)	Feet. 414. 618
Louisville, 8 miles below, midway between top of first bank and foot of second bank, 1,200 feet above Government light at Hughes Bar, opposite barn facing river 800 feet back from top of bank; 15.93 feet 103° 50' 30'' to 10-inch maple tree, 7.12 feet 253° 08' 20'' to 10-inch elm tree; top of iron post (U. S. C. E. p. b. m. 612)	405. 428
Louisville, 9 miles below, midway between top of first bank and foot of second bank 1,200 feet below 1½-story frame house on Indiana side (house faces Kentucky and has one-story addition on downstream end), 970 feet above gully 150 feet wide; 29.67 feet 118° 16' 40'' to 9-inch hackberry tree, 18.20 feet 231° 23' to 14-inch cottonwood tree, 24.82 feet 292° 58' 20'' to 12-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 613)	409. 192
Bridgeport, Ind., near, at top of first bank 1,000 feet below two-story frame house on Indiana side (house faces Kentucky, has two-story veranda facing river, and chimney on upstream end), diagonally across from Bridgeport; 18.75 feet 70° 05' to 6-inch willow tree, 37.95 feet 173° 05' 40'' to 24-inch honey locust tree, 25.75 feet 299° 46' 20'' to 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 614)	409. 870
Bridgeport, Ind., opposite, in root of 38-inch sugar maple tree on second terrace opposite, on river face of tree (blazed by fire on land side); spike (U. S. C. E. p. b. m. 614A)	426. 409
Farnslay, Ind., near, opposite a point 600 feet above whitewashed barn on Indiana side, 25 feet back from top of first bank; 10.75 feet 347° 34' 40'' to 4-inch willow tree, 35.85 feet 97° 36' 40'' to 4-inch willow tree, 28.70 feet 282° 37' to 7-inch willow tree; top of iron post (U. S. C. E. p. b. m. 615)	405. 019
Greenwood Landing, 800 feet above Government light at Bellers Landing, Ind., at foot of second bank; 19.56 feet 211° 04' 40'' to 5-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 616)	414. 565
Stewarts Landing, Ind., near, at foot of second bank opposite a point 600 feet above upstream point of second ravine below McHarry's tomb, 2 feet down hill from line of two 3-inch elm stumps 7 feet apart; top of iron post (U. S. C. E. p. b. m. 617)	416. 134
Valley Station, 2,900 feet above road to, opposite a point 1,700 feet above steps to Maple Grove on Indiana side; 82.04 feet 14° 56' 30'' to 3-inch willow tree, 76.62 feet 352° 21' to 3-inch cottonwood tree, 76.36 feet 342° 25' 40'' to 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 618) ...	415. 744
Johnstown Road Landing, 0.5 mile below, at foot of second bank, 3,400 feet above Twelvemile light, opposite two-story frame house surrounded by three red outbuildings; top of iron post (U. S. C. E. p. b. m. 619)	412. 513
Twelvemile Landing, Ind., below, at line of cultivation 1,850 feet below Twelvemile light and opposite a point 1,800 feet below old barn on Indiana shore; 29.60 feet 303° 33' to nail in 4-inch cottonwood tree, 17.5 feet 47° 47' to 3-inch willow tree, 29.30 feet 60° 12' to 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 620)	396. 082

Rees Landing, Ind., under top of second bank, opposite point of cliff and 1,000 feet below house on Indiana side; 17.67 feet $120^{\circ} 55'$ to 8-inch locust tree, 14.7 feet $172^{\circ} 03'$ to 8-inch locust tree, 26.8 feet $236^{\circ} 42'$ to 7-inch locust tree; top of iron post (U. S. C. E. p. b. m. 621).....	Feet. 415.483
Rees Landing, Ind., below, 20 feet from top of bank near line of cultivation, 500 feet below whitewashed barn facing river on Indiana side at Fishtown Landing; 125.45 feet $280^{\circ} 16'$ to nail in 3-inch soft maple tree, 69.33 feet $54^{\circ} 03'$ to nail in 12-inch willow tree; top of iron post (U. S. C. E. p. b. m. 622).....	404.342
Rosewood Landing, Ind., above, at top of bank 30 feet from line of cultivation, 3,000 feet above Government light at Rosewood Landing; 8.96 feet $255^{\circ} 17'$ to nail in 8-inch cottonwood tree, 15.27 feet $301^{\circ} 52'$ to 7-inch willow tree, 52.88 feet $59^{\circ} 43' 40''$ to nail in 7-inch willow tree; top of iron post (U. S. C. E. p. b. m. 623) (could not be found in 1910)...	406.785
Kosmosdale, Ky., south foot of stiff leg of anchor bolt at Kosmos Cement Works, 2.6 feet north of south end of pedestal; cut + (U. S. C. E. p. b. m. 623A).....	427.384
Kosmosdale, Ky., 400 feet below Kosmos Cement Works, 18 feet above large cottonwood tree that has electric light suspended from river side, near top of bank; 84.12 feet $312^{\circ} 12' 40''$ to nail in 28-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 624) (could not be found in 1910)...	413.998
West Kosmosdale, Ky., below, 30 feet back of top of first bank, at edge of willow line and opposite two-story frame house on Indiana shore; 31.75 feet $330^{\circ} 04' 20''$ to nail in 7-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 625).....	412.006
West Point, Ky., near, at right angle 120 feet up bank from large rock at water's edge, gage reading 9.3; 24.12 feet $115^{\circ} 37'$ to nail in 3-inch willow tree, 13.36 feet $159^{\circ} 37'$ to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 626).....	397.171
West Point, Ky., 30 feet back from top of bank, 800 feet below Government light and 12-foot fence line; 96.20 feet $276^{\circ} 27'$ to nail in pear tree, 12.22 feet $115^{\circ} 43' 20''$ to center of three locust posts with nail in center post, 158.25 feet $146^{\circ} 44' 50''$ to nail in 12-inch locust tree; top of iron post (U. S. C. E. p. b. m. 627).....	427.428
West Point, Ky., at southeast corner of Highland and Carter Streets, on stone window sill of K. & I. bank building (Geological Survey b. m. U. S. C. E. p. b. m. 626A).....	441.204

EKRON QUADRANGLE.

[Latitude $37^{\circ} 45'-38'$; longitude $86^{\circ} 86' 15'$.]

From West Point along Ohio River to Tobacco Landing, Ind.

West Point, Ky., near, at edge of willow line near foot of second bank, opposite a point 800 feet above white frame house on Indiana shore (house faces river and stands under a cliff); 47.02 feet $261^{\circ} 07'$ to nail in 11-inch sycamore tree, 38.61 feet $292^{\circ} 52' 40''$ to nail in 8-inch willow tree, 23.39 feet $109^{\circ} 49'$ to nail in 9-inch willow tree; top of iron post (U. S. C. E. p. b. m. 628).....	410.164
Evans Landing, Ind., opposite Government light, 30 feet back from top of first bank; 6.3 feet $20^{\circ} 07' 40''$ to nail in 7-inch willow, 7.39 feet $75^{\circ} 01'$ to nail in 7-inch willow, 25 feet $245^{\circ} 50' 30''$ to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 629).....	399.687

Browns Landing, near, at top of first bank, at edge of cultivation, opposite a point 800 feet below white frame house on Indiana shore; 19.30 feet 293° 34' 40'' to nail in 5-inch willow tree, 15.03 feet 1° 02' to nail in 6-inch willow tree, 23.43 feet 57° 44' 50'' to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 630).....	Feet. 394. 634
Pilchers Landing, below, at top of first bank, opposite point midway between Government light and Mosquito Creek; 18.43 feet 95° 15' 20'' to nail in 6-inch willow tree, 12.18 feet 239° 55' 20'' to nail in 9-inch willow tree, 13.50 feet 298° 07' 30'' to nail in 9-inch willow tree; top of iron post (U. S. C. E. p. b. m. 631).....	396. 502
Mosquito Creek, at foot of second bank, opposite a point 400 feet below, 50 feet below one-story frame house on Kentucky shore; 63.74 feet 21° 32' to nail in 7-inch willow tree, 38.98 feet 124° 17' to nail in 22-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 632).....	408. 762
Hughes Landing, Ind., at top of bank opposite, 1,200 feet above mouth of Otter Creek, Ky.; 43.31 feet 294° 39' to nail in 24-inch cottonwood tree, 22.41 feet 126° 24' 20'' to nail in 14-inch maple tree, 23.14 feet 202° 46' 40'' to nail in 36-inch sycamore tree, 6.01 feet 218° 16' to nail in 7-inch maple tree; top of iron post (U. S. C. E. p. b. m. 633).....	406. 283
Rock Haven, Ky., 0.8 mile above, on second terrace of bank 50 feet below Government light; 7.9 feet 318° 37' 30'' to nail in 2-inch cottonwood tree, 28.54 feet 79° 58' 40'' to nail in 2-inch cottonwood tree, 80.05 feet 148° 50' 40'' to Government light; top of iron post (U. S. C. E. p. b. m. 634)....	409. 637
Rock Haven, 100 feet below creek, at foot of first bank, in dense willows; 15.46 feet 207° 51' 40'' to nail in 4-inch sycamore tree, 8.69 feet 119° 19' to nail in 6-inch willow tree, 20.23 feet 77° 28' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 635).....	391. 412
Rock Haven Landing, Ky., 100 feet below mouth of creek; cross cut in top of ring bolt (U. S. C. E. p. b. m. 635A).....	379. 572
Cedar Farm Landing, Ind., opposite, 600 feet above large hay barn on Indiana shore (gable end of barn is toward river, has lean-to sheds on all sides, and stands in cedar grove); 18 feet 52° 32' 20'' to nail in 4-inch sycamore tree, 5.51 feet 196° 10' to nail in 4-inch elm tree, 19.18 feet 299° 31' 30'' to nail in 4-inch elm tree; top of iron post (U. S. C. E. p. b. m. 636)...	400. 222
Dittoes Landing, Ky., 2,400 feet above Government light, near top of bank opposite a point 200 feet below large barn on Indiana side (barn faces river and has lean-to shed on river face); 15.51 feet 125° 21' 30'' to nail in 5-inch locust tree, 7.93 feet 201° 39' 20'' to nail in 5-inch locust tree, 19.45 feet 304° 20' to nail in 9-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 637).....	410. 677
Dittoes Landing, Ky., below, 2,400 feet above Tobacco Landing, Ind. (Tobacco Bend), at top of first terrace in bank; 12.5 feet 205° 14' to nail in 6-inch sycamore tree, 13.28 feet 15° 27' 40'' to nail in 7-inch willow tree, 60.73 feet 95° 17' 40'' to nail in 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 638).....	395. 360
Tobacco Landing, Ind., 2,800 feet below, at top of bank near line of cultivation, 1,200 feet above mouth of small branch on Kentucky side, opposite red-rock cliff on Indiana side; 19.4 feet 330° 39' 20'' to nail in 4-inch willow tree, 15.55 feet 349° 12' 40'' to nail in 3-inch willow tree, 24.94 feet 33° 46' 30'' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 639).....	400. 183

CORYDON QUADRANGLE.

[Latitude 38°-38° 15'; longitude 86°-86° 15'.]

From Tobacco Landing, Ind., along Ohio River to Haunted Hollow Landing, Ind.

Millers Landing, Ky., 0.8 mile above, at top of bank near line of cultivation, 1,000 feet above one-story white frame house at mouth of creek on Indiana side (house faces river and has 3 openings on river face); 75.06 feet 69° 46' to nail in 14-inch willow tree, 31.22 feet 314° 52' 50" to nail in 28-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 640)	Feet. 400.761
Millers Landing, Ky., below, at extreme top of bank, between frame house and clump of large trees at head of Brandenburg Bar opposite point 600 feet above Government light on Indiana side; 42.86 feet 107° 26' 20" to nail in 36-inch elm tree, 58.36 feet 197° 19' to southeast corner of house, 33.78 feet 212° 12' to northeast corner of house. 58.92 feet 240° 32' 20" to northwest corner of dwelling of J. A. McGehee; top of iron post (U. S. C. E. p. b. m. 641)	418.164
Brandenburg, Ky., 1 mile above, at top of bank in cornfield opposite a point 1,000 feet below one-story white frame house on Indiana shore (house is on edge of bank, faces river, and has 4 openings on river face); 52.07 feet 54° 20' 20" to nail in 6-inch willow stump, 30.7 feet 350° 26' 20" to nail in 7-inch willow stump; top of iron post (U. S. C. E., p. b. m. 642). (In 1910 the cap on bench mark was found to be broken and unreliable)	393.154
Brandenburg, Ky., in courthouse yard, 30 feet north of northwest corner of courthouse; 33.66 feet 135° 07' 30" to northeast corner of porch of courthouse, 22.60 feet 153° 29' 10" to northwest corner of porch of courthouse, 25.19 feet 201° 32' 20" to northwest corner on water table of courthouse; top of iron post (U. S. C. E. p. b. m. 642)	445.926
Brandenburg, Ky., 5 feet south of northwest corner of stone foundation to courthouse; cut on stone water table lettered "U. S. □ B. M." (U. S. C. E. p. b. m. 643A)	451.178
Brandenburg, Ky., 1 mile below, at edge of woods on steep rocky shore, opposite a point 1,600 feet above mouth of Buck Creek; 9.18 feet 127° 47' to nail in root of 24-inch sycamore tree, 31.35 feet 205° 28' 40" to nail in tree, 16.30 feet 252° 25' 40" to nail in 14-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 644). (In 1910 top of bench mark was found to be cracked and had rock piled on river side of it)	398.625
Mauckport, Ind., near, at top of bank, at edge of cultivation, opposite point 1,000 feet above Mauckport Landing, 700 feet downstream from old frame house on Kentucky side on second terrace facing river (house has row of cedars in front), 400 feet downstream from small branch; 32.59 feet 290° 18' 10" to nail in 3-inch willow tree, 17.72 feet 40° 38' to nail in 4-inch willow tree, 19.66 feet 66° 16' 40" to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 645)	394.910
Mauckport, Ind., 0.8 mile below, midway between top of first and foot of second bank, 475 feet above mouth of creek 5 feet wide; 18.24 feet 27° 20' to nail in 9-inch sycamore tree, 13.01 feet 108° 51' to nail in 5-inch sycamore tree, 20.35 feet 295° 09' 40" to nail in 7-inch elm tree; top of iron post (U. S. C. E. p. b. m. 646)	403.149
Haynes Landing, Ky., 400 feet below road at, under large elm tree at foot of second bank; 7.72 feet 331° 00' 40" to nail in 7-inch elm tree, 28.97 feet 100° 19' 20" to nail in 12-inch sycamore tree, 12.79 feet 190° 46' to nail in 9-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 647)	409.184

Haunted Hollow Landing, Ind., below, at top of bank near line of cultivation, opposite a point halfway between Haunted Hollow and two frame houses at mouth of hollow below (houses face river, have verandas on river face, and house nearest river has three dormer windows), about center of Hanes Bar, 1,800 feet above mouth of creek on Kentucky side; 18.16 feet $322^{\circ} 05'$ to nail in 6-inch willow tree, 11.92 feet $5^{\circ} 21' 20''$ to nail in 6-inch willow tree, 25.25 feet $60^{\circ} 50' 50''$ to nail in 7-inch willow tree; top of iron post (U. S. C. E. p. b. m. 648)..... Feet.
394. 137

PECKENPAUGH QUADRANGLE.

[Latitude 38° - $38^{\circ} 15'$; longitude $86^{\circ} 15'$ - $86^{\circ} 30'$.]

From Haunted Hollow Landing, Ind., along Ohio River to Chenault Landing, Ky.

Kosmos cement quarry, 0.7 mile below, at top of bank in front of old frame house that faces river (house has chimney on upstream end and veranda on river face downstream end), 100 feet upstream from mouth of small branch, opposite barn on Indiana side (barn stands with gable end to river and has lean-to shed on river end), 72.30 feet $99^{\circ} 34'$ to nail in 8-inch cedar tree, 62.02 feet $128^{\circ} 20' 40''$ to northeast corner of old house (property of Kosmos Cement Co.); 49.91 feet $357^{\circ} 59'$ to nail in 4-inch locust tree; top of iron post (U. S. C. E. p. b. m. 651)..... 413. 519

Big Indian Creek, opposite point 1,000 feet above mouth of, 800 feet above mouth of small branch, 20 feet below line of cultivation, near top of bank, in gully made by small field drain, about 1,200 feet below landing; 24.1 feet $355^{\circ} 23' 10''$ to nail in 4-inch willow tree, 19.2 feet 59° to nail in 4-inch maple tree, 34.8 feet $87^{\circ} 52' 30''$ to nail in 6-inch elm tree; top of iron post (U. S. C. E. p. b. m. 654)..... 399. 031

Swans Landing, Ind., opposite point 2,000 feet above, at top of bank in meadow at Shaws Landing, Ky., 80 feet below hay barn; 22.51 feet $356^{\circ} 45' 20''$ to nail in 4-inch sycamore tree, 14.27 feet $56^{\circ} 51' 30''$ to nail in 4-inch honey-locust tree, 92.6 feet $108^{\circ} 44'$ to northwest corner of frame building; top of iron post (U. S. C. E. p. b. m. 655)..... 418. 196

Williams Landing, Ky., above, 20 feet below foot of second bank, opposite point 1,600 feet above white log house on Indiana side (house is at upstream side of ravine, faces river, and has 2 openings in face and 2 in upstream end); 22.94 feet $76^{\circ} 18'$ to nail in 3-inch cottonwood tree, 10.11 feet $127^{\circ} 36'$ to nail in 3-inch locust tree, 7.89 feet $217^{\circ} 22' 30''$ to 3-inch locust tree; top of iron post (U. S. C. E. p. b. m. 656)..... 397. 640

Upper Blue River Island, at top of bank in edge of cornfield, 95 feet above Crecelius Landing, Ky., opposite Kendles Landing; 35.45 feet $289^{\circ} 19' 30''$ to nail in 8-inch willow tree, 22.13 feet $308^{\circ} 30'$ to nail in 6-inch willow tree, 17.14 feet $28^{\circ} 27' 40''$ to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 657)..... 390. 510

Blue River Island, 20 feet back of top of first bank, 200 feet below Peckenaugh's Landing paced from road on top of bank opposite point that would center Upper Blue River Island; 75.98 feet $218^{\circ} 16' 40''$ to nail in 9-inch cottonwood tree, 51.49 feet $292^{\circ} 47' 30''$ to nail in 14-inch cottonwood tree, 19.02 feet $17^{\circ} 27'$ to nail in 10-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 658)..... 396. 125

Lower Blue River Island, 40 feet back from edge of bank, opposite point 300 feet below mouth of Big Blue River; 15.84 feet $339^{\circ} 26' 30''$ to cross on stone, 46.93 feet $77^{\circ} 42' 20''$ to nail in 5-inch oak tree, 15.12 feet $165^{\circ} 55' 50''$ to nail in 5-inch elm tree; top of iron post (U. S. C. E. p. b. m. 660).... 424. 027

Leavensworth, Ind., at top of bank, in pear orchard, opposite point midway between Leavensworth Wharf and first street above, 25 feet upstream from yellow cottage on Kentucky shore (property of Mrs. Bedelia Higgins, of New York); 88.64 feet $188^{\circ} 18'$ to northeast corner of Mrs. Higgins's house; 84.02 feet $357^{\circ} 19' 40''$ to nail in 24-inch cottonwood tree, 40.73 feet $67^{\circ} 06' 40''$ to nail in 12-inch elm tree; top of iron post (U. S. C. E. p. b. m. 661).....	Feet. 419.516
Leavensworth, Ind., northeast corner of Frank and Nelson streets, on foundation capstone of Merchants Hotel, 12 feet east of southwest corner; cut, lettered "B. \square M." (U. S. C. E. p. b. m. 661A).....	420.200
Leavensworth, Ind., east side of Nelson Street, 50 feet north of Second Street, on inside of rear wall of Shaws old warehouse; high-water marks of 1883 (U. S. C. E. "High water of 1883").....	428.327
Leavensworth, Ind., east side of Nelson Street, 50 feet north of Second Street on inside of rear wall of Shaws old warehouse; high-water marks of 1884 (U. S. C. E. "High water of 1884").....	429.827
Leavensworth, Ind., below, at top of bank in dense willows, 1,000 feet below Indian Hollow; 12.95 feet $335^{\circ} 23' 20''$ to nail in 5-inch willow tree, 19.20 feet $29^{\circ} 48' 40''$ to nail in 6-inch willow, 19.43 feet $85^{\circ} 59' 20''$ to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 662).....	395.201
Booths Landing, Ky., at top of bank, near edge of cultivation, opposite point 1,200 feet below log house on Indiana side (house has lean-to shed on downstream end); 10.31 feet $242^{\circ} 06'$ to 6-inch willow tree, 11.44 feet $306^{\circ} 19'$ to nail in 5-inch willow tree, 9.68 feet $52^{\circ} 00'$ to nail in 7-inch willow tree; top of iron post (U. S. C. E. p. b. m. 663).....	400.675
Andersons Landing, Ky., at top of bank, first terrace in willows near line of cultivation, opposite point on Indiana shore 1,600 feet below frame house that faces river and has 3 openings on river front; 7.21 feet $324^{\circ} 20' 20''$ to nail in 7-inch willow tree, 11.54 feet $292^{\circ} 42' 40''$ to nail in 6-inch willow tree, 11.12 feet $212^{\circ} 53' 40''$ to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 664).....	397.331
Allens Landing, Ky., below, at top of first terrace, at edge of cultivation, 100 feet below large beech tree below Allens Landing, 11.27 feet $268^{\circ} 05'$ to nail in 3-inch cottonwood tree, 11.64 feet $23^{\circ} 45' 40''$ to nail in 3-inch cottonwood tree; 20.25 feet $68^{\circ} 19'$ to nail in 4-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 665).....	397.167
Crecelius Landing, Ky., 200 feet below, at top of bank, opposite Schooners Point, Ind., 175 feet below small branch that comes in below landing; 14.72 feet 80° to nail in 13-inch cottonwood tree, 12.98 feet $280^{\circ} 53' 40''$ to nail in 8-inch cottonwood tree, 9.25 feet $165^{\circ} 27'$ to nail in 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 666).....	394.447
Weiders Landing, Ind., 1,350 feet above Schooners Point light; 48.83 feet $148^{\circ} 27' 10''$ to cross on rock, 22.35 feet $84^{\circ} 47'$ to cross on stone, 2.82 feet to cross on same stone; square seat cut on 4-foot by 5-foot rock, lettered "U. S. \square B. M." (U. S. C. E. p. b. m. 667).....	369.874
Pompin Landing, Ky., at edge of vegetation, 800 feet above white house on Kentucky shore, 1,000 feet above Lyon Landing on Indiana shore; 13.22 feet $275^{\circ} 20' 20''$ to cross on ledge, 14.41 feet $69^{\circ} 28'$ to cross on ledge; cut on stone (U. S. C. E. p. b. m. 668).....	389.653
Cedar Branch Landing, 1,000 feet below Government light, at top of first terrace; 29.8 feet $89^{\circ} 55'$ to nail in 3-inch sycamore tree, 34.1 feet $176^{\circ} 27'$ to nail in 6-inch sycamore tree, 29.7 feet $227^{\circ} 11' 40''$ to nail in 4-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 669).....	383.087

Holcrofts Landing, Ind., 800 feet below, 7 feet above stone 6 by 15 by 25 feet on Kentucky side; 27.26 feet 273° 24' to cross on stone, 5.78 feet 23° 08' to cross on stone, 10.68 feet 102° 05' 20'' to cross on stone; top of iron post (U. S. C. E. p. b. m. 670).....	Feet. 384. 583
Cape Sandy Landing, Ind., opposite, 600 feet below mouth of creek; 14.73 feet 54° 49' 30'' to nail in 10-inch sycamore tree, 16.65 feet 196° 01' 40'' to nail in 24-inch cottonwood tree, 15.12 feet 259° 26' to nail in 4-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 671).....	386. 756
Yeasts Landing, Ind., at top of first terrace, near edge of cultivation, opposite a point 1,600 feet below Government light on Indiana shore at Peckenpaughs Bar; 35.09 feet 288° 45' 20'' to nail in 10-inch cottonwood tree, 11.30 feet 302° 06' 40'' to nail in 6-inch willow tree, 20.78 feet 354° 03' to nail in 7-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 672).....	386. 595
Wolf Creek Landing, Ky., 2,400 feet above, at top of bank, at edge of cultivation; 23.5 feet 297° 11' to nail in 4-inch willow tree, 15.39 feet 8° 06' to nail in 5-inch cottonwood tree, 31.6 feet 55° 20' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 673).....	385. 942
Wolf Creek Landing, 2,800 feet below, 350 feet below Government light on tree below Wolf Creek Landing; 81.09 feet 354° 07' to 5-inch cottonwood tree, 94.84 feet 50° 56' to 8-inch willow tree, at top of bank, at edge of cultivation; top of iron post (U. S. C. E. p. b. m. 674).....	391. 470
Alton, Ind., 1 mile above, at top of second terrace, in yard surrounding residence of Mr. Hardin, 50 feet north and 10 feet west of northwest corner of residence; 50.70 feet 205° 46' 40'' to northwest corner of Hardin's residence, 82.84 feet 219° 07' to northwest corner of building adjoining; top of iron post (U. S. C. E. p. b. m. 675). (Elevation doubtful).....	410. 161
Alton, Ind., at top of first terrace, opposite white cottage (cottage is one-story building, stands on northwest corner of Front and Cross Streets, under large tree, faces river, has 3 openings on river face), 1,500 feet below Alton Landing; 25.66 feet 339° 25' to nail in 24-inch sycamore tree, 32.43 feet 41° 39' to nail in 9-inch sycamore tree, 15.94 feet 142° 17' 40'' to nail in 24-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 676). (Elevation doubtful).....	387. 236
Holcroft Landing, 800 feet above, at top of first bank, in cottonwood grove, opposite mouth of small ravine; top of iron post (U. S. C. E. p. b. m. 677). (Elevation doubtful).....	384. 518
Gaileys Landing, Ind., above, at top of bank, at edge of cultivation, opposite point 800 feet above 1½-story frame house on Indiana side (house has lean-to shed on river side), on Hardin farm, 950 feet above landing, 250 feet below steamboat wreck on Kentucky side that shows at 6-foot stage; 6.85 feet 21° 32' to 8-inch willow tree, 13.78 feet 341° 52' to 5-inch willow tree, 36.32 feet 73° 55' to willow tree; top of iron post (U. S. C. E. p. b. m. 678).....	393. 781
Willards Landing, 400 feet above, at extreme top of first bank, 1,400 feet above Rona Landing; 24.47 feet 293° 59' 40'' to tree, 22.39 feet 165° 24' to tree, 13.82 feet 102° 31' to tree; top of iron post (U. S. C. E. p. b. m. 679).....	400. 124
Rona Landing, 0.5 mile below, at extreme top of bank, in edge of cultivated field, opposite point 1,600 feet above large barn on Indiana side, 900 feet above frame house on Kentucky shore (house faces river, has large stone chimney on upstream end, opposite a deserted log house on Indiana side); 25.13 feet 341° 17' to 9-inch elm tree, 28.99 feet 22° 44' 20'' to 8-inch elm tree, 42.28 feet 52° 07' 20'' to 9-inch elm tree; top of iron post (U. S. C. E. p. b. m. 680).....	408. 843

Humberts Landing, above, on Kentucky side, near top of bank, in cottonwood grove, 60 feet back of willow line, 1,300 feet above Boone Hollow Light; 17.57 feet $20^{\circ} 15'$ to 10-inch cottonwood tree, 10.63 feet $154^{\circ} 25'$ to 13-inch cottonwood tree, 13.4 feet $269^{\circ} 16' 20''$ to 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 681)	Feet. 390.422
Concordia, Ky., 1 mile above, 800 feet below large barn on Indiana side; 8.36 feet $57^{\circ} 11'$ to cross on ledge, 8.33 feet $181^{\circ} 12' 20''$ to cross on ledge, 10.98 feet $300^{\circ} 11'$ to cross on ledge; cut on rock ledge in stone quarry lettered "U. S. \square B. M. 682" (U. S. C. E. p. b. m. 682)	382.716
Concordia, Ky., first street below landing (Main Street), at top of bank, on south side of street, near old frame hotel, 6 feet east by 15 feet north of northeast corner of building; 37.5 feet $271^{\circ} 03' 40''$ to southeast corner of hotel; top of iron post (U. S. C. E. p. b. m. 683).....	406.337
Concordia, Ky., 1 mile below, at top of first bank, in cornfield 600 feet below old house on top of bank on Kentucky side, 1,375 feet above Government light; 72.12 feet $288^{\circ} 54'$ to 5-inch willow tree, 43.64 feet $296^{\circ} 57' 10''$ to sycamore tree; top of iron post (U. S. C. E. p. b. m. 684).....	385.397
Burchs Landing, 1,500 feet below, at top of first bank, in edge of cornfield, on S. F. Burch's farm at head of Flint Island, 800 feet above line of vegetation on island; 31.7 feet $319^{\circ} 19' 40''$ to 8-inch willow tree, 41.25 feet $2^{\circ} 22'$ to 8-inch willow tree, 47.66 feet $50^{\circ} 45'$ to 3-inch maple tree; top of iron post (U. S. C. E. p. b. m. 685).....	383.449
Flint Island, at foot of steep bank, opposite large barn on Indiana side, opposite a point 400 feet above Government light, on sycamore at root of dike, 930 feet above dike at foot of island; 38.72 feet $320^{\circ} 29' 20''$ to 4-inch cottonwood tree, 65.35 feet $57^{\circ} 57' 30''$ to 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 686).....	384.485
Flint Island, at foot of, at top of bank, in cornfield, 185 feet below Government light, 900 feet above Blue Grass Landing; 31.3 feet $164^{\circ} 55'$ to 4-inch sycamore tree, 27.07 feet $183^{\circ} 35'$ to 4-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 687).....	385.943
Blue Grass Landing, 800 feet below, 1,300 feet below Government light, on large sandstone rock at edge of vegetation; cut and lettered "U. S. \square B. M." (U. S. C. E. p. b. m. 687 A, established by W. A. Christian survey of 1894).....	370.395
Burchs Landing, Ky., 1,200 feet above mouth of Oil Creek, opposite point 300 feet above large barn in meadow on Indiana shore (barn stands with gable end to river); 66.11 feet $288^{\circ} 53' 20''$ to 4-inch willow tree, 24.25 feet $38^{\circ} 42' 40''$ to 3-inch willow tree, 29.79 feet $69^{\circ} 01'$ to 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 688).....	384.890
Derby Landing, 1,200 feet below, 300 feet below mouth of creek on Indiana side, at top of first terrace, at river edge of cornfield, opposite upstream end of detached hill below Derby, near three large cottonwood trees; 41.03 feet $318^{\circ} 31' 20''$ to 18-inch cottonwood tree; 37.03 feet $335^{\circ} 46' 20''$ to 12-inch cottonwood tree; 57.27 feet $59^{\circ} 06' 20''$ to 12-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 689).....	392.341
Chenault Landing, Ky, 1,500 feet below, at top of second terrace in pasture field, 6 feet back from fence, 45 feet above large walnut tree, 400 feet above one-story cottage; 11.34 feet $318^{\circ} 49'$ to 3-inch walnut tree, 15.22 feet $34^{\circ} 37' 50''$ to 4-inch honey-locust tree, 22.55 feet $65^{\circ} 06'$ to 3-inch honey-locust tree; top of iron post (U. S. C. E. p. b. m. 690).....	401.443

CANNELTON QUADRANGLE.

[Latitude 37° 45'-38°; longitude 86° 30'-86° 45'.]

From Chenault Landing along Ohio River to point 1 mile above Hawesville, Ky.

	Feet.
Stallmans Landing, 1,600 feet above, 600 feet above Upper Chenault Light, 600 feet below 2-story frame house that faces river and has 8 openings in river face, at top of first terrace, at river edge of cornfield; top of iron post (U. S. C. E. p. b. m. 691)	390.083
Yellow Bank Creek, 60 feet upstream from present bank, at top of first terrace, at river edge of cornfield; 28.35 feet 22° 41' to 4-inch willow tree, 37.25 feet 347° 44' 30'' to 8-inch tree; top of iron post (U. S. C. E. p. b. m. 692)	380.011
Poison Creek, opposite point 100 feet below lower mouth, at top of first terrace, in cottonwood grove; 12.17 feet 24° 39' to 11-inch cottonwood tree, 8.82 feet 129° 06' 30'' to 11-inch cottonwood tree, 7.63 feet 337° 47' 20'' to 12-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 693)	385.913
Lower Chenault Light, opposite point 200 feet below, at top of first terrace, in cottonwood grove, opposite large frame house on top of hill; 10.58 feet 122° 32' 10'' to 28-inch cottonwood tree, 22.48 feet 249° 25' to 12-inch cottonwood tree, 11.91 feet 302° 46' 30'' to 14-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 694)	379.996
Lick Run, Ky., 700 feet above mouth of, at top of first terrace, in cornfield, 15 feet back of river edge, 900 feet below one-story frame cottage on Indiana shore; top of iron post (U. S. C. E. p. b. m. 695)	382.348
Stephensport, Ky., above, at top of bank, 30 feet from public road, 800 feet below Government light at head of Stephensport Bend; 29 feet 212° 45' 20'' to cross on big rock, 37.72 feet 338° 45' to 3-inch sycamore tree, 36.57 feet 26° 24' 40'' to 3-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 696)	394.387
Stephensport, Ky., above, at top of bank midway between edge of bank and river road, 1,700 feet above Upper Stephensport Landing, 1,850 feet above Sinking Creek at Stephensport Landing; 57.03 feet 275° 48' 40'' to 12-inch honey locust, 87.17 feet 141° 12' to 15-inch elm tree, 111.12 feet 188° 43' to 4-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 697)	415.262
Stephensport, Ky., on northeast corner of capstone of north pedestal of bridge over Sinking Creek, on east side of creek; square seat cut and lettered "U. S. □ B. M." (U. S. C. E. p. b. m. 697A)	383.516
Stephensport, Ky., below, near foot of second bank, at end of rock ledge, 125 feet above Barlows Branch (creek); 87.95 feet 294° 20' 30'' to 9-inch cottonwood tree, 49.23 feet 349° 56' 20'' to 13-inch cottonwood tree, 81.48 feet 56° 30' 40'' to 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 698)	385.231
Addison Landing, 0.7 mile above, on steep wooded bank, opposite point 800 feet below white cottage on Indiana shore (cottage faces river, stands back from bank 1,000 feet, and is surrounded by maple trees); 20.45 feet 339° 43' to 4-inch cottonwood tree, 12.37 feet 43° 46' 30'' to gable of barn in bottom, 15.35 feet 213° 20' to 8-inch elm tree; top of iron post (U. S. C. E. p. b. m. 699)	381.145
Addison Landing, 1,600 feet below, at top of bank, at edge of meadow, opposite large frame house on Kentucky side, opposite large frame house on Indiana side that faces river and has large window in gable; 27.55 feet 79° 35' 40'' to 8-inch locust tree, 15.33 feet 29° 27' 20'' to 3-inch locust tree, 33.02 feet 69° 24' to 10-inch honey-locust tree; top of iron post (U. S. C. E. p. b. m. 700)	396.222

Holt Station, Ky., 20 feet from top of bank in meadow, 800 feet below shanty boat on props on Indiana shore; 23.03 feet 311° 29' to 5-inch elm tree, 26.66 feet 53° 13' 40'' to 7-inch honey-locust tree, 60.62 feet 87° 37' 40'' to 5-inch walnut tree; top of iron post (U. S. C. E. p. b. m. 701).....	Feet. 399.577
Holt station, Ky., below, 20 feet back from edge of bank, in cornfield near isolated tree, opposite point 1,500 feet below one-story log house on Indiana side (house is on upper side of ravine, faces river, and has chimney on each end); 65.68 feet 160° 04' to 12-inch locust tree, 40.58 feet 334° 02' to 4-inch elm tree, 39.97 feet 29° 28' to 4-inch osage orange tree; top of iron post (U. S. C. E. p. b. m. 702).....	389.383
Capt. Smiths Landing, Ky., at top of bank, near edge of cornfield, 50 feet above isolated beech tree; 31.06 feet 40° 28' to 5-inch willow tree, 36.81 feet 355° 05' to 6-inch willow tree, 32.84 feet 309° 07' to 7-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 703).....	383.044
Bull Creek, 800 feet below mouth of, at edge of cornfield; 69.18 feet 72° 20' to crotch of 22-inch willow tree, 33.06 feet 7° 27' to 3-inch willow tree, 66.48 feet 314° 40' to 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 704).....	387.991
Carters Landing, 2,900 feet below Government light, at top of bank near roadside; 20.64 feet 347° 38' to 7-inch sycamore tree, 26.13 feet 12° 40' to 7-inch willow tree, 53.3 feet 146° 31' 20'' to 7-inch cottonwood tree, 52.1 feet 188° 13' 30'' to 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 705).....	377.655
Cloverport, Ky., above, at foot of hillside, 300 feet above rock ledge above creek; 34.45 feet 339° 28' 30'' to nail in 4-inch willow tree, 40.58 feet 0° 35' 30'' to nail in 4-inch willow tree, 28.76 feet 23° 38' 40'' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 706).....	382.417
Cloverport, Ky., at foot of bank 325 feet above mouth of small creek; 247.11 feet 263° 59' 40'' to nail in 36-inch sycamore tree, 125.75 feet 109° 11' 20'' to nail in 8-inch honey-locust tree, 25.62 feet 89° 12' 20'' to nail in 30-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 707).....	379.749
Cloverport, Ky., at northwest corner of Second and Main streets, on basement doorsill of Masonic Temple; cut and lettered "U. □ S." (U. S. C. E. p. b. m. 707A).....	412.806
Cloverport, Ky., in west wall of Fisher's drug store at corner of Second and Main streets; nail marking high water of 1884 (U. S. C. E. "High water 1884," established by A. R. Fisher, February, 1884).....	416.631
Cloverport, Ky., at top of bank, 16 feet back of fence line, 75 feet above cottage, 182 feet below abandoned tipple, 375 feet below Government light; 89.22 feet 224° 54' to northeast corner of house, 21.58 feet 354° 03' 40'' to nail in 6-inch honey-locust tree, 35.28 feet 48° 48' 30'' to nail in 4-inch locust tree, 61.81 feet 122° 38' to nail in 4-inch honey-locust tree; top of iron post (U. S. C. E. p. b. m. 708).....	415.830
Fawcetts Creek, 350 feet below mouth of, near top of bank; 8.79 feet 264° 51' 10'' to nail in 15-inch sycamore tree, 20.40 feet 91° 03' 40'' to nail in 20-inch cottonwood tree, 24.40 feet 131° 12' 30'' to nail in 12-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 709).....	382.274
Fawcetts Creek, 1 mile below, 25 feet back of top of bank, near foot of railroad embankment, 600 feet below a log-and-tie landing on Kentucky side, 200 feet above stone culvert on Louisville, Henderson & St. Louis R.y.; 16.50 feet 303° 54' 30'' to nail in 8-inch locust tree, 24.19 feet 83° 47' 50'' to nail in 3-inch locust tree, 14.32 feet 145° 08' 10'' to nail in 4-inch locust tree; top of iron post (U. S. C. E. p. b. m. 710).....	395.314

Groves Landing, 900 feet below, on opposite shore, at top of bank, in corn-field; 11.53 feet 311° 42' 40" to nail in 3-inch elm tree, 15.32 feet 27° 58' 20" to nail in 5-inch locust tree, 20.24 feet 58° 07' 20" to nail in 5-inch locust tree; top of iron post (U. S. C. E. p. b. m. 711).....	Feet. 398. 424
Davisons Landing, below, at top of bank, in cornfield, 1,500 feet below large tobacco barn on Kentucky side, 1,800 feet above Government light on Indiana side; 73.83 feet 22° 41' 20" to nail in 3-inch willow tree, 54.57 feet 336° 52' 50" to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 712).....	389. 810
Skillmans Landing, 3,100 feet above, 30 feet from foot of second bank, 85 feet above large hay barn, 200 feet below ravine or field drain, opposite frame house that faces Kentucky and has lone cedar in front; 15.78 feet 43° 50' 10" to nail in 8-inch willow tree, 18.95 feet 257° 25' 40" to nail in 5-inch willow tree, 10.55 feet 195° 12' 50" to nail in 5-inch elm tree; top of iron post (U. S. C. E. p. b. m. 713).....	381. 579
Millstone Landing, 1,000 feet below Government light, at foot of second bank, 1,100 feet above two-story frame house on Kentucky side (house faces river and has row of cedars in front); 22.40 feet 144° 59' 10" to nail in 3-inch honey-locust tree, 17.13 feet 176° 29' 50" to nail in 5-inch walnut tree, 26.51 feet 225° 42' 10" to nail in 6-inch walnut tree; top of iron post (U. S. C. E. p. b. m. 714).....	376. 047
Deer Creek, opposite point 200 feet below mouth of, at top of second terrace, in yard surrounding residence of Hogaman brothers, now occupied by J. Mattingly (house faces river and has 10 openings in face, small veranda at center opening); 37.96 feet 105° 45' 50" to nail in 15-inch locust tree, 127.73 feet 185° 01' 30" to northeast corner of house, 107.54 feet 205° 34' 40" to west gable of house; top of iron post (U. S. C. E. p. b. m. 715)....	393. 826
Deer Creek, opposite, between farms of Hogaman brothers and Mrs. Eliza Webb, at top of bank, 150 feet below Hogaman residence, occupied by Mattingly; square seat cut on corner of line stone between above farms; lettered "U.□S." (U. S. C. E. p. b. m. 715A).....	394. 378
Landis Landing, Ky., 1,400 feet above, on top of second terrace, 25 feet back from top of bank, 800 feet below barn, and 1,400 feet above house on Eliza Webb's farm, occupied by Mrs. Robbins; 31.56 feet 34° 39' 20" to nail in 2-inch honey locust, 23.70 feet 321° 07' 00" to nail in 2-inch elm tree; top of iron post (U. S. C. E. p. b. m. 716).....	391. 663
Pauline Landing, Ind., 800 feet below, on top of bank, 13.5 feet from center line of road toward river; 25.24 feet 298° 09' to nail in red-oak tree, 56.98 feet 51° 30' 20" to nail in 30-inch elm tree, 35.61 feet 86° 20' to nail in 36-inch red-oak tree; top of iron post (U. S. C. E. p. b. m. 717)	388. 420
Indian Creek, Ky., on east abutment of northwest corner of bridge over, 300 feet from mouth of creek; cut on capstone lettered "U.□S." (U. S. C. E. p. b. m. 717A).....	390. 431
Hancock Landing, on top of first terrace 75 feet from its edge and 60 feet from foot of second terrace, opposite point 300 feet below storeroom owned by Mr. Price and 600 feet above house occupied by same; 95.10 feet 139° 27' to nail in 4-inch elm tree, 84.29 feet 179° 46' 40" to nail in 4-inch elm tree, 84.35 feet 204° 42' to nail in 4-inch elm tree; top of iron post (U. S. C. E. p. b. m. 718).....	385. 668
Hawesville, Ky., 1 mile above, at foot of bank 40 feet from railroad, opposite point 305 feet below trestle No. 28½ and 120 feet above tool house of Louisville, Henderson & St. Louis Ry.; 31.1 feet 106° 02' to nail in 4-inch sycamore tree, 21.02 feet 165° 20' to nail in 6-inch honey-locust tree, 10.82 feet 312° 36' to nail in 3-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 719).....	376. 347

TELL CITY QUADRANGLE.

[Latitude 37° 45'–38°; longitude 86° 45'–87°.]

From point near Hawesville along Ohio River to point near Rockport, Ind.

Hawesville, 125 feet from northeast corner of newspaper office, 120 feet from northwest corner of electric-light plant, 170 feet from railroad; 121.25 feet 153° 13' to nail in concrete wall at ice plant, 102.15 feet 175° 39' 30'' to nail in large oak post about 18 inches above ground, 143.74 feet 213° 11' 20'' to nail in post 2 feet above ground at corner of Hawesville Plain Dealer newspaper office; top of iron post (U. S. C. E. p. b. m. 720).....	Feet. 376. 120
Hawesville, at intersection of Louisville, Henderson & St. Louis Ry. and Cool Spring branch, 30 feet below railway, 75 feet below creek, 175 feet above Kentucky station, on arrow of true meridian mark (U. S. C. E. p. b. m. 720 A, established by U. S. Geol. Survey as a true meridian monument).....	390. 537
Hawesville, southeast corner of courthouse; metallic tablet (Geol. Survey b. m.; U. S. C. E. p. b. m. 720B).....	419. 855
Cannelton, Ind., at foot of second bank, 25 feet from road, opposite chair factory, opposite point 500 feet below two-story yellow frame house; 19.59 feet 330° 45' to nail in 8-inch cottonwood tree, 29.65 feet 348° 57' to nail in 10-inch cottonwood tree, 30.28 feet 13° 46' 30'' to nail in 10-inch cottonwood tree, 29.85 feet 64° 14' 30'' to nail in 9-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 721).....	378. 306
Tell City, Ind., opposite point 1 mile above, 25 feet from foot of second bank, 45 feet from road, opposite point 130 feet above brick house owned and occupied by C. T. Duncan, opposite point 500 feet below frame house owned and occupied by W. Zuelly; 72.53 feet 114° 28' 30'' to nail in 3-inch elm tree, 99.70 feet 75° 53' 40'' to nail in 6-inch cottonwood tree, 114 feet 286° 35' to nail in 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 722).....	380. 436
Tell City, opposite point 150 feet above lower hame factory, 12 feet from foot of bank, opposite point 310 feet below brick house with veranda owned and occupied by Henry Mason; 37.41 feet 258° 26' to nail in 8-inch elm tree, 8.5 feet 151° 31' 30'' to nail in 4-inch elm tree, 15.56 feet 111° 34' to nail in 7-inch elm tree; top of iron post (U. S. C. E. p. b. m. 723).....	380. 397
Tell City, opposite smokestack of brickyard in, 200 feet below Beachman's Landing, Ky., 10 feet from foot of bank and 60 feet above a point opposite a two-story frame house occupied by Mr. Longuest; 24.55 feet 341° 32' to nail in 12-inch cottonwood tree, 45.05 feet 234° 08' to nail in 4-inch elm tree, 5.08 feet 157° 59' to nail in 4-inch elm tree; top of iron post (U. S. C. E. p. b. m. 724).....	373. 799
Troy, Ind., above, 8 feet from foot of bank, 40 feet from top, opposite point 60 feet above two-story frame house owned by John Quincy Adams (house vacant); 12.96 feet 69° 59' to nail in 3-inch elm tree, 10.24 feet 199° 41' to nail in 3-inch catalpa tree, 19.53 feet 283° 24' to nail in 3-inch elm tree; top of iron post (U. S. C. E. p. b. m. 725).....	379. 296
Henderson Creek, opposite point 700 feet above mouth of, in yard surrounding residence of H. Gardner, 40 feet from top of bank, 85 feet from point 12 feet above house; 62.23 feet 266° 03' 20'' to nail in 10-inch cedar tree, 92.35 feet 198° 39' 30'' to northeast corner of H. T. Gardner's residence; top of iron post (U. S. C. E. p. b. m. 726).....	397. 665

Troy, Ind., opposite, on farm of Mr. Meyers, 40 feet from top of second terrace, opposite point 150 feet above one-story frame house occupied by Mr. Bolington, opposite two-story stone house owned by John Fitch, of Troy, Ind.; 52.87 feet 356° 34' 40'' to nail in 8-inch honey-locust tree, 53.77 feet 295° 41' 20'' to nail in 24-inch pear tree, 212.60 feet 221° 05' 20'' to northeast corner of chimney on Harvey Meyers's residence; top of iron post (U. S. C. E. p. b. m. 727)	Feet. 390. 879
Leighs Landing, Ky., 50 feet from top of second bank, on farm of Mr. Hodges, 50 feet above farm of Mr. Ligh, opposite point 900 feet below Government light on Indiana shore; 18.54 feet 149° 49' to nail in 28-inch cottonwood tree, 42.09 feet 195° 02' 30'' to nail in honey-locust tree, 44.18 feet 231° 14' 30'' to nail in 12-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 728)	379. 274
Troy, Ind., opposite, seat cut on 30-inch cottonwood tree, 15 feet east of P. B. M. 728 (U. S. C. E. p. b. m. 728 A)	383. 791
Crooked Creek, opposite point 1,400 feet above residence of Mr. Emick, on farm of S. P. Emick, at top of bank, 30 feet south of warehouse; 110.18 feet 173° 08' to nail in 48-inch sycamore tree, 76.67 feet 340° 49' 20'' to nail in 20-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 729)	379. 652
Corn Island, 4,500 feet below mouth of slough that bounds upper end of, on first terrace 60 feet from top and 110 feet above mouth of field drain; 89.85 feet 47° 27' 20'' to nail in 5-inch cottonwood tree, 71 feet 359° 43' to nail in 4-inch willow tree, 73.91 feet 340° 13' to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 730)	375. 109
Andersons Bar, near head of, on top of first terrace, 110 feet from edge, 90 feet from foot of second terrace, opposite point 800 feet below barn on Indiana side, opposite point 1,000 feet above barn on Indiana side; 87.05 feet 29° 06' to nail in 4-inch willow tree, 64.36 feet 353° 02' 20'' to nail in 5-inch willow tree, 74.20 feet 324° 03' 40'' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 731)	373. 469
Andersons Bar, on top of second terrace, 40 feet from edge of bank, opposite house owned and occupied by Mrs. Henderson; top of iron post (U. S. C. E. p. b. m. 732)	381. 808
Lewisport, Ky., above, on top of first terrace, 50 feet from edge, on farm of Mrs. Sallie E. Parker, opposite point 30 feet above house occupied by Mr. Lambert on the Parker farm, opposite point 400 feet above barn on Indiana side; 65.21 feet 332° 13' 30'' to nail in 3-inch willow tree, 70.30 feet 353° 03' to nail in 4-inch willow tree, 70.74 feet 7° 10' 30'' to nail in 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 733)	376. 145
Lewisport, Ky., south side of Main Street, near river bank, on brick residence of I. B. Hayden, on east face of northeast corner, 5th course of brick above water table; cut and lettered "U.S.—B.M." (U. S. C. E. p. b. m. 733 A)	398. 633
Lewisport, Ky., 20 feet from foot of bank, opposite point 12 feet above one-story frame house owned and occupied by Mrs. Miller and opposite point 30 feet below one-story frame house owned by Mrs. Harper, now vacant, 400 feet below Government light; top of iron post (U. S. C. E. p. b. m. 734)	371. 525
Lewisport, Ky., below, on farm of Lee Holland, 100 feet from top of bank, 175 feet above line fence between Malinda Holland and Lee Holland farms, 900 feet above barn on farm of Malinda Holland and opposite a point 100 feet above residence of Lee Holland; top of iron post (U. S. C. E. p. b. m. 735)	389. 837

Lewisport, Ky., 2 miles below, on farm of H. Burch, 90 feet from top of bank, opposite point 400 feet above residence of Mr. Grubel, owned by H. Burch, opposite point 300 feet above barn of H. Burch; top of iron post (U. S. C. E. p. b. m. 736)	Feet. 396.888
Blackford Creek, 1 mile above mouth of, on Capt. Crammond's farm, 60 feet from top of bank, opposite point 360 feet below house owned by Capt. Crammond, occupied by E. Poll; 30.08 feet 32° 08' 30'' to nail in 1-inch locust tree, 31.45 feet 6° 52' to nail in 2-inch locust tree, 59 feet 323° 13' to nail in 2-inch locust tree; top of iron post (U. S. C. E. p. b. m. 737).....	386.499
Blackford Creek, 100 feet above mouth of, on Samuel Sheridan farm, 30 feet from top of bank, 400 feet above residence owned and occupied by Robert Blunt, opposite point 100 feet below mouth of Little Sandy Creek, Ind.; 29.45 feet 75° 53' to nail in 4-inch willow tree, 21.72 feet 37° 59' 20'' to nail in 4-inch willow tree, 27.66 feet 351° 49' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 738)	369.023
Blackford Creek, 1 mile below, on farm of James Haywood, 1,500 feet from house occupied by Mr. Hall, opposite point 200 feet above two-story white house on Indiana side; 11.1 feet 91° 32' 40'' to nail in 2-inch willow tree, 14.61 feet 51° 04' 30'' to nail in 2-inch willow tree, 12.87 feet 331° 31' 20'' to nail in 2-inch willow tree; top of iron post (U. S. C. E. p. b. m. 739).....	367.790
Blackford Creek, 2 miles below, on farm of J. Mathews, 267 feet from dividing line between farms of J. Mathews and Mary Dixon, opposite point 500 feet above Honey Creek in Indiana; 7.8 feet 111° to nail in 20-inch cottonwood tree, 13.65 feet 50° 45' 30'' to nail in 12-inch cottonwood tree, 11.67 feet 288° 02' to nail in 16-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 740).....	369.960

OWENSBORO QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87°-87° 15'.]

From point near Rockport along Ohio River to Upper French Island.

Rockport, Ind., 1.3 miles above, on farm of W. Johnson, in yard of house occupied by R. P. Pool, 15 feet beyond county road; 16.5 feet, 173° 51' to northeast corner of house; top of iron post (U. S. C. E. p. b. m. 741)....	384.480
Rockport, Ind., near, on farm of Lawson Green, 20 feet beyond county road, 300 feet from house occupied by Elijah Beard, 50 feet from old well near road, 52.73 feet 85° 18' to nail in 20-inch elm tree; top of iron post (U. S. C. E. p. b. m. 742).....	384.232
Rockport, Ind., near, on farm of Oscar Muckols, 700 feet from house occupied by L. Pool, 132 feet from line fence between farms of O. Muckols and S. E. Muckols; 31.3 feet 43° to nail in 9-inch cottonwood tree, 38.62 feet 2° 38' 40'' to nail in 12-inch willow tree, 37.24 feet 318° 48' to nail in 9-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 743).....	375.299
Iceland Landing, Ky., on farm of George Taylor, on top of bank, in edge of field, 200 feet above Muddy Cut Creek; 64.47 feet 78° 09' 40'' to nail in 22-inch cottonwood tree, 17.83 feet 311° 28' to nail in 20-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 744).....	371.712
Puppy Creek, 0.7 mile above foot of dike at, on farm of George Taylor, 10 feet from top of bank, opposite point 200 feet below small creek, 200 feet above line fence between farms of G. Taylor and Mr. Galvin; 39.57 feet 314° 26' 40'' to nail in 6-inch sycamore tree, 36.35 feet 48° 40'' to nail in 4-inch willow tree, 29.13 feet 45° 19' to nail in 8-inch maple tree; top of iron post (U. S. C. E. p. b. m. 745).....	379.930

Puppy Creek, 400 feet above, on Galvin farm, 1.595 feet below head of dike, 85 feet back from bench mark is creek; 26.8 feet 333° 16' 40" to nail in 11-inch cottonwood tree, 38.87 feet 74° 37' to nail in 24-inch elm tree; top of iron post (U. S. C. E. p. b. m. 746).....	Feet. 371. 816
Yellow Bank Island, on farm of W. S. Hawes, 720 feet above line fence between farms of W. S. Hawes and Mrs. M. Young; 29.6 feet 292° 19' to nail in 5-inch cottonwood tree, 12.18 feet 14° 48' 30" to 4-inch cottonwood tree, 9.41 feet 94° 10' 30" to nail in 5-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 747).....	369. 332
Yellow Bank Island, in cultivated field (property of Benj. Gratcher), 40 feet back from trees on bank, 800 feet above Government light, on right bank; 59.66 feet 301° 17' to nail in 6-inch willow tree, 40.97 feet 353° 45' to 7-inch willow tree, 57.75 feet 45° 49' to nail in 11-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 748). (Elevation doubtful).....	370. 978
Yellow Bank Island, opposite point 650 feet below head of, opposite barn facing northeast and southwest on Indiana side; 13.39 feet 115° 49' 20" to 3-inch elm tree, 8.35 feet 190° 06' to nail in 4-inch elm tree, 24.2 feet 236° 00' 40" to nail in 2-inch locust tree; top of iron post (U. S. C. E. p. b. m. 749).....	370. 990
Owensboro, Ky., near, in sand slope, 600 feet below Government light, on left bank; top of iron post (U. S. C. E. p. b. m. 750).....	354. 186
Owensboro, Ky., near, 1,250 feet below upper incline of Glenmore Distillery, at top of bank; 333.02 feet 232° 58' 20" to nail in 36-inch hackberry tree, 231.74 feet 156° 24' 40" to northwest corner of house, 168.81 feet 69° 56' 20" to 12-inch locust tree; top of iron post (U. S. C. E. p. b. m. 751)....	395. 606
Owensboro, Ky., near, 1,250 feet below upper incline of Glenmore Distillery, at top of bank; 333.02 feet 232° 56' 20" to nail in 36-inch hackberry tree, 231.74 feet 156° 24' 40" to northwest corner of house, 168.81 feet 69° 56' 20" to 12-inch locust tree; top of iron post (U. S. C. E. p. b. m. 752).....	358. 999
Owensboro, Ky., southwest corner of St. Ann and Water streets; 18-inch stone lettered "In memory of high water Feb. 18th (?) 1883." (U. S. C. E. "H. W. ref. stone.") High water of 1884 is 0.33 foot higher.....	387. 902
Owensboro, Ky.; zero of gage at.....	339. 183
Owensboro, in northeast corner of courthouse yard, in stone; copper plate stamped "396 Louisville" (Geol. Survey b. m.; U. S. C. E. p. b. m.)..	394. 638
Owensboro, Ky., below, on slope, 25 feet back from line of willows, 100 feet above Henning Distillery incline; 8.18 feet 93° 15' to nail in 6-inch willow tree, 9.88 feet 131° 28' to nail in 4-inch willow tree, 8.45 feet 218° 15' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 753)..	354. 988
Owensboro, Ky., below, on first slope, 15 feet back from edge of willows, 150 feet below incline and directly opposite point where willows end on right bank; 38.92 feet 94° 45' to nail in 4-inch cottonwood tree, 21.26 feet 207° 19' to nail in 4-inch cottonwood tree, 107.33 feet 262° 59' to nail in 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 754).....	357. 353
Owensboro, Ky., below, in wheat field, 20 feet back from top of bank and 500 feet below large barn on left bank; 21.25 feet 3° 58' to nail in 4-inch locust tree, 33.25 feet 309° 07' to nail in 8-inch honey-locust tree, 21.53 feet 335° 20' to nail in 4-inch locust tree; top of iron post (U. S. C. E. p. b. m. 755).....	379. 162
Little Hurricane Island, upper end of, on top of bank, at tree line, 200 feet above vegetation; 74.91 feet 69° 08' to nail in 18-inch cottonwood tree, 33.88 feet 286° 07' to nail in 3-inch locust tree, 53.32 feet 313° 49' to 40-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 756).....	369. 810

Little Hurricane Island, about 1 mile below back of, on slope 15 feet from head of bank and road, 400 feet above small frame house; 25.93 feet 260° 50' to nail in 10-inch cottonwood tree, 48.90 feet 88° 25' to nail in 8-inch plum tree, 13.02 feet 136° 21' to nail in 12-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 757).....	Feet. 373. 733
Little Hurricane Island, back of, in cornfield, 60 feet from top of bank, 1,000 feet above farm house with cedar tree in yard; 71.52 feet 2° 28' to nail in 4-inch hackberry tree, 64.59 feet 352° 59' to nail in 12-inch thorn tree, 74.42 feet 328° 30' to nail in 6-inch hackberry tree; top of iron post (U. S. C. E. p. b. m. 758).....	375. 894
Little Hurricane Island, below, in cornfield, 15 feet from top of bank, 1,000 feet above Government light on right bank; 27.90 feet 18° 38' to nail in 8-inch willow tree, 28.58 feet 344° 04' to nail in 6-inch willow tree; 31.45 feet 317° 18' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 759).....	363. 116
French Island, 1,500 feet above upper end of, on wooded slope, 20 feet from edge of cultivation, 1,300 feet above Government light No. 350 on left bank; 6.45 feet 256° 58' to nail in 4-inch willow tree, 8.1 feet 355° to nail in 4-inch willow tree, 25.90 feet 30° 04' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 760).....	358. 081
Grissons Landing, 1,600 feet below, in cornfield, 35 feet back from top of bank, 45 feet below fence line, 1,600 feet below Eagle Distillery; 89.71 feet 173° 45' to nail in 6-inch maple tree, 98.05 feet 193° 30' to nail in 3-inch honey-locust tree, 116.13 feet 211° 27' to nail in 14-inch walnut tree; top of iron post (U. S. C. E. p. b. m. 761).....	372. 888

NEWBURG QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87° 15'-87° 30'.]

From Upper French Island along Ohio River to point near mouth of Green River.

Upper French Island, 2,000 feet above foot of, in cornfield, 50 feet back from top of bank, 300 feet above a large tree in cornfield; top of iron post (U. S. C. E. p. b. m. 762).....	372. 147
French Island, in cornfield, 40 feet back from top of bank and 40 feet downstream from fisherman's shack on top of bank, 2,500 feet above Government light on left bank; 39.97 feet 31' to northwest corner of cabin; top of iron post (U. S. C. E. p. b. m. 763).....	373. 393
French Island, 500 feet below foot of, in cornfield, 100 feet back from edge of cultivation, 100 feet above lone sycamore tree on edge of bank; 123.25 feet 315° 41' to nail in 4-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 764).....	372. 019
French Island, below, on first terrace, among large trees, 40 feet below edge of cultivation, 800 feet below Government light on right bank; 8.62 feet 126° 07' to nail in 18-inch elm tree, 14.63 feet 33° 13' to nail in 24-inch elm tree, 17.87 feet 268° 06' to nail in 18-inch maple tree; top of iron post (U. S. C. E. p. b. m. 765).....	367. 581
French Island, below, on first terrace, among willows, 30 feet from edge of cultivation, 800 feet above large two-story frame house on right bank; 9.17 feet 204° 10' to nail in 6-inch willow, 7.87 feet 318° 52' to nail in 6-inch willow tree, 15.19 feet 55° 29' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 766).....	355. 361
Jones Landing, 1.5 miles above, at top of slope and edge of cultivation, opposite point halfway between two frame houses on right bank; 16.29 feet 296° 50' to nail in 8-inch willow tree, 10.27 feet 22° 12' to nail in 6-inch willow tree, 17.15 feet 79° 26' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 767).....	356. 378

Jones Landing, 2,350 feet above, on slope, 50 feet from edge of cultivation, 250 feet above one-story log cabin on left bank, 200 feet below floating light; 7.92 feet 174° 23' to nail in 4-inch willow tree, 12.71 feet 282° to nail in 6-inch willow tree, 14.63 feet 77° 30' to nail in 8-inch double willow tree; top of iron post (U. S. C. E. p. b. m. 768).....	Feet. 352. 274
Jones Landing, Ky., 0.5 mile below, on slope under bank, 0.5 mile above floating light; top of iron post (U. S. C. E. p. b. m. 769).....	354. 365
Newburg, Ind., about 1.7 miles above, on top of slope, 50 feet below road, in front of old tobacco barn, 100 feet above one-story log house, 400 feet above Government light on right bank; 8.95 feet 10° 15' to nail in 9-inch elm tree, 17.32 feet 292° 11' to 16-inch cottonwood tree, 134.29 feet 222° 16' to east gable of Mr. Merrit's log house, 24.38 feet 200° 13' to nail in 12-inch elm tree; top of iron post (U. S. C. E. p. b. m. 771).....	371. 694
Newburg, Ind., above, on top of terrace, among trees, 125 feet below road, 200 feet above upper end of small towhead; 11.04 feet 197° 26' to nail in 6-inch willow tree, 15.14 feet 80° 59' to nail in 18-inch willow tree, 16.23 feet 301° 11' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 772). (Elevation doubtful).....	359. 664
Newburg, Ind., opposite point 200 feet below four-story brick power house, on top of terrace, among trees; 12.71 feet 305° 10' to nail in 6-inch willow tree, 10.43 feet 194° 19' to nail in 6-inch willow tree, 14.1 feet 95° 32' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 773)...	358. 881
Green River, above mouth of, 450 feet below foot of dike, on top of slope, 15 feet from edge of cultivation, 200 feet below large corncrib on left bank, opposite point 400 feet below Government light on right bank; 11.97 feet 252° 32' to nail in 16-inch willow tree, 5.25 feet 98° 19' to nail in 14-inch willow tree; top of iron post (U. S. C. E. p. b. m. 777).....	360. 243
Green River, 3,400 feet above mouth of, on top of slope, at edge of cultivation, opposite frame house on right bank; 25.26 feet 48° 24' to nail in 2-inch willow tree, 26.37 feet 345° to nail in 4-inch willow tree, 32.61 feet 322° 38' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 778).....	358. 141

EVANSVILLE QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87° 30'-87° 45'.]

From point near Atkins Landing along Ohio River to point near Smiths Landing, Ky.

Atkins Landing, opposite point 500 feet below, on top of slope, among willows, on right bank, 1,000 feet below mouth of Green River; 15.75 feet 251° 19' to nail in 8-inch willow tree, 11.49 feet 198° 35' to nail in 8-inch willow tree, 16.6 feet 134° to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 779).....	354. 334
Evansville, Ind., above, on top of slope, among trees, 25 feet from edge of cultivation, 100 feet above log cabin on left bank; 46.73 feet 299° 27' to nail in 18-inch cottonwood tree, 37.65 feet 105° 11' to nail in 18-inch sycamore tree, 17.94 feet 13° 09' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 780).....	359. 031
Evansville, Ind., above, on top of bank, among trees, 30 feet from edge of cultivation, 1,650 feet below Government light on left bank; 11.03 feet 78° 55' to nail in 12-inch sycamore tree, 12.60 feet 128° 22' to nail in 12-inch sycamore tree, 16.1 feet 196° 48' to nail in 12-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 781).....	367. 353

Evansville, Ind., above, on first terrace, among small willows, 5 feet above lower end of Illinois Central R. R. incline on left bank; 14.28 feet 231° 20' to nail in 2-inch willow tree, 32.05 feet 148° 49' to nail in 4-inch sycamore tree, 26.05 feet 103° 27' to nail in 2-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 782).....	Feet. 352. 099
Evansville, Ind., above, in cornfield, 250 feet back from top of bank, 500 feet above 1½-story frame house on left bank; 186.46 feet 359° 14' to nail in 4-inch willow tree, 179.92 feet 9° 37' to nail in 12-inch sycamore tree, 172.41 feet 23° 04' to nail in 10-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 783).....	366. 056
Evansville, Ind., above, about 600 feet back from top of bank, in yard of 1½-story frame house, 30 feet from corner of house; 48.67 feet 154° 10' to southeast corner of house (nail in corner pile of house); top of iron post (U. S. C. E. p. b. m. 784).....	367. 615
Evansville, Ind., above, on top of bank, in cornfield, 125 feet back from edge of bank, 50 feet below clump of trees (formerly Halls Bayou); 83.76 feet 358° 49' to nail in 36-inch elm tree, 29.72 feet 32° 36' to nail in 10-inch hackberry tree, 29 feet 74° 27' to nail in 8-inch hackberry tree; top of iron post (U. S. C. E. p. b. m. 785)	369. 105
Evansville, Ind., 2,000 feet above Evansville waterworks, 50 feet below root of center dike, in cornfield, 60 feet back from top of bank, 1,600 feet below Government light on left bank; 39.47 feet 322° 36' to nail in 6-inch locust tree, 49.40 feet 3° 58' to nail in 8-inch locust tree, 48.85 feet 33° 51' to nail in 10-inch locust tree; top of iron post (U. S. C. E. p. b. m. 786)...	366. 601
Evansville, Ind., directly opposite wharf at, on top of first terrace, among trees, 50 feet above dike on left side of river; 23.14 feet 92° 55' to nail in 6-inch willow tree, 25 feet 164° 23' to nail in 10-inch cottonwood tree, 56.03 feet 261° 45' to nail in 14-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 787).....	358. 686
Evansville, Ind., near, on crest of knoll, among willows, directly opposite road to river below lower sawmill, on right bank; 24.62 feet 328° 03' to nail in 8-inch cottonwood tree, 9.12 feet 112° 09' to tree, 16.56 feet 200° 01' to nail in 10-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 788)...	361. 675
Evansville, Ind., below, on top of bank, at edge of cornfield on east side of road, 15 feet east and directly behind Government light No. 366; 11.09 feet 296° 46' to Government light; top of iron post (U. S. C. E. p. b. m. 789).....	366. 520
Evansville, Ind., below, under bank, 1,200 feet above barn on left bank; top of iron post (U. S. C. E. p. b. m. 790).....	352. 480
Evansville, Ind., corner of Sycamore and Water streets; cut in curbstone (Feb. 19, 1883; Feb. 19, 1884); high-water marks (U. S. C. E., high-water marks); two elevations.....	{ 376, 758 376, 990
Evansville, east side of customhouse, in stone sill; copper plate stamped "394 Vin" (Geol. Survey b. m., U. S. C. E. p. b. m.).....	394. 207
Dutch Bend, in, 600 feet back from top of bank, in front of one-story frame house to right of road running back from top of bank; 39.48 feet 214° 52' to nail in corner post of house; top of iron post (U. S. C. E. p. b. m. 791)....	363. 187
Dutch Bend, in, on terrace, among willows, 50 feet from edge of cultivation, 2,400 feet below Government light on right bank, 800 feet above large barn on right bank; 12.25 feet 19° 57' to nail in 6-inch willow tree, 33.42 feet 131° 32' to nail in 14-inch cottonwood tree, 26.64 feet 181° 05' to nail in 16-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 792).....	357. 096

Hendersons Towhead, about 2 miles above, at top of slope, among willows, 25 feet from edge of cultivation, 200 feet below two-story frame house and barn on right bank; 8.31 feet 41° 30' to nail in 3-inch willow tree, 13.9 feet 129° 08' to nail in 4-inch willow tree, 6.57 feet 203° 15' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 793).....	Feet. 351. 211
Hendersons Towhead, about 1 mile above, on top of slope, among trees, opposite upper end of row of tall trees on right bank; 14.78 feet 97° 02' to nail in 4-inch willow tree, 10.87 feet 165° 18' to nail in 4-inch willow tree, 10.49 feet 302° 13' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 794).....	350. 687
Hendersons Towhead, opposite, on top of bank, 60 feet back from top, on lower bank of, small branch and hog wallow; 15.90 feet 284° 53' to nail in 4-inch box-elder tree, 37 feet 7° 34' to nail in 8-inch willow tree, 16.62 feet 164° 25' to nail in 18-inch hackberry tree; top of iron post (U. S. C. E. p. b. m. 795).....	353. 068
Henderson Waterworks, 4,000 feet above, 100 feet below small ravine, beneath top of bank, 200 feet below old incline; 17.97 feet 333° 36' to nail in 2-inch willow tree, 58.34 feet 60° to nail in old pile, 108.63 feet 93° 14' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 796).....	360. 613
Henderson Waterworks, near creek below; 13.93 feet 15° 52' to nail in 8-inch cottonwood tree, 11.27 feet 105° 18' to nail in 8-inch cottonwood tree, 16.53 feet 236° 16' 30" to nail in 10-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 797).....	352. 367
Henderson, Ky., on stone flagging at upper end of wharf; reference point of old survey marked "U. S. Δ 0.0".....	338. 931
Henderson, Ky., at foot of Second Street, on stone flagging at lower end of wharf; benchmark of old survey marked "U. S. \square B. M.".....	338. 584
Henderson, Ky., southwest corner of Second and Water streets, in wall of old brick building; spike (not lettered) (U. S. C. E. "High-water mark of Feb. 1884").....	377. 380
Henderson, Ky., seat cut in top of foundation stone on south side of first pier of Henderson railroad bridge, lettered above seat "U. S. B. M." (U. S. C. E. p. b. m. 797A).....	376. 485
Henderson, Ky., at top of slope of paved wharf, 100 feet north of Second Street, directly opposite alley; 59.22 feet 168° 30' 30" to corner of iron columns, 207.88 feet 289° 28' to northeast corner of tobacco warehouse; top of iron post (U. S. C. E. p. b. m. 798).....	387. 720
Henderson Wharf, 1 mile below, in cabbage patch, 60 feet back of top of first bank, 130 feet below small ravine, 500 feet below large brick warehouse on left bank; 55.46 feet 35° 28' to stump, 40.8 feet 73° 55' to 20-inch stump, 4.18 feet 168° 10' to 48-inch stump; top of iron post (U. S. C. E. p. b. m. 799).....	353. 321
Henderson Island, 600 feet below upper end of, in cornfield at top of bank, 50 feet from edge of cultivation; 50.44 feet 306° 55' to nail in 4-inch maple, 45.73 feet 19° 52' to nail in 6-inch maple, 39.98 feet 47° 52' to nail in 8-inch maple; top of iron post (U. S. C. E. p. b. m. 800).....	355. 754
Henderson Island, behind, in cornfield on top of bank, 25 feet back from edge of cultivation, 180 feet above bank of Canoe Creek; 142.10 feet 266° 44' to nail in 6-inch hackberry tree, 43.8 feet 22° 56' to nail in 4-inch hackberry tree; top of iron post (U. S. C. E. p. b. m. 801).....	363. 646
Henderson Island, below, 40 feet back from edge of bank, in clump of small trees, between two cornfields, 800 feet below Government light on left bank; 7.38 feet 74° 49' to nail in 6-inch locust tree, 27.3 feet 139° 45' to nail in 4-inch willow tree, 7.8 feet 239° 49' to nail in 6-inch locust tree; top of iron post (U. S. C. E. p. b. m. 802).....	362. 875

Lock and Dam No. 48, 1 mile above, in orchard, 40 feet back from top of bank and cornfield, 300 feet below Government light on left bank, 250 feet above hedge fence; 69.52 feet 193° 06' to nail in 20-inch pecan tree, 37.36 feet 256° 50' to nail in 16-inch apple tree, 210.96 feet 65° 14' to Government light; top of iron post (U. S. C. E. p. b. m. 803).....	Feet. 383. 997
Lock and Dam No. 48, 1 mile below, in cornfield, 200 feet back from top of bank, halfway between two small frame houses, 1,000 feet below Government light on left bank; 67.88 feet 157° 45' to nail in 16-inch oak tree, 39.52 feet 178° 40' to nail in 12-inch gum tree, 22.18 feet 269° 07' to nail in 30-inch poplar tree; top of iron post (U. S. C. E. p. b. m. 805).....	368. 986
McDonalds Landing, 2,000 feet above, in thick jungle, 125 feet back from top of bank, opposite point 300 feet below large barn on right bank; 9.47 feet 160° 40' to nail in 16-inch pecan tree, 19.34 feet 217° 30' to nail in 8-inch mulberry tree, 21.92 feet 266° 20' to 12-inch mulberry tree; top of iron post (U. S. C. E. p. b. m. 806).....	362. 588
Cypress Bend, above, 200 feet back from top of bank, among large trees, 50 feet below large barn and ruins of old house; 9.89 feet 178° 17' to nail in 8-inch tree, 24.38 feet 272° 37' to nail in 60-inch double sycamore tree, 24.93 feet 329° 10' to 14-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 807).....	362. 279
Cypress Bend, at head of, among trees, 150 feet back from willow line, 400 feet above house and barn on right bank; 24.56 feet 171° 21' to nail in 20-inch sycamore tree, 24.56 feet 351° 38' to nail in 8-inch maple tree, 32.84 feet 83° 04' to nail in 18-inch maple tree; top of iron post (U. S. C. E. p. b. m. 808).....	352. 334
Cypress Bend, among small trees, 100 feet back from willow line, opposite large barn and house, Government light on right bank; 7.84 feet 54° 36' to nail in 4-inch willow tree, 5.66 feet 143° 20' to nail in 6-inch cottonwood tree, 15.6 feet 232° 15' to nail in 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 809).....	348. 519
West Franklin, Ind., 1 mile above, on top of bank, in cornfield, 25 feet back from edge of cultivation, 1,500 feet above stone crusher on right bank; 47.66 feet 296° 29' to nail in 2-inch willow tree, 30.37 feet 319° 45' to nail in 2-inch willow tree, 46.83 feet 49° 41' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 810).....	349. 555
West Franklin, Ind., 500 feet below, on top of slope, in cornfield, 25 feet from edge of cultivation; 29.1 feet 355° 55' to nail in 12-inch willow tree, 36.55 feet 20° 17' to nail in 6-inch willow tree, 43.64 feet 38° 34' to 12-inch willow tree; top of iron post (U. S. C. E. p. b. m. 811).....	346. 689
Diamond Island, 2,600 feet below head of, on top of slope, in cornfield, 20 feet from edge of cultivation; 58.46 feet 330° 35' to nail in 4-inch willow tree, 47.30 feet 5° 02' to nail in 4-inch willow tree, 52.72 feet 26° 18' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 812).....	348. 547

ALZEY QUADRANGLE.

[Latitude 37° 45'-38°; longitude 87° 45'-88°.]

From Diamond Island along Ohio River to point near head of Wabash Island.

Diamond Island, in cornfield, 40 feet back from top of bank, at turn in road, 300 feet above barn on left bank, 1,000 feet above Government light on left bank; 76.65 feet 320° 36' to nail in 6-inch hackberry tree, 62.48 feet 42° 27' to nail in 4-inch hackberry tree; top of iron post (U. S. C. E. p. b. m. 813).....	357. 672
Diamond Island, 1,000 feet above Government light at foot of, on top of slope, among trees, 30 feet from edge of cultivation; top of iron post (U. S. C. E. p. b. m. 815).....	355. 682

Diamond Island towhead, 600 feet below foot of, on top of slope, among trees, 100 feet from edge of cultivation; top of iron post (U. S. C. E. p. b. m. 816).....	Feet. 359. 029
Smiths Landing, Ky., 0.8 mile above, on top of first slope, among trees, 500 feet above store and group of houses on left bank; 5.83 feet 270° 04' to nail in 24-inch willow tree, 25.44 feet 147° 02' to nail in 30-inch willow tree, 14.85 feet 211° 30' to nail in 15-inch willow tree; top of iron post (U. S. C. E. p. b. m. 817).....	341. 932
Smiths Landing, Ky., below, on top of bank, at edge of road, 40 feet back from edge of bank, 480 feet below Government light 378, on left bank; 123.31 feet 260° 22' to telegraph pole, 15.41 feet 48° 25' to nail in 4-inch locust tree, 52 feet 125° 20' to telegraph pole; top of iron post (U. S. C. E. p. b. m. 818).....	354. 963
New York Landing, 600 feet above, on top of left bank, among trees; 26.31 feet 316° 28' to nail in 8-inch box-elder tree, 13.56 feet 354° 10' to nail in 10-inch box-elder tree, 23.01 feet 46° 35' to nail in 6-inch mulberry tree; top of iron post (U. S. C. E. p. b. m. 819).....	359. 024
New York Landing, 4,700 feet below, on top of slope, among trees, 600 feet below turn in road and scale house on left bank; 20.60 feet 120° 38' to nail in 10-inch box-elder tree, 26.79 feet 177° 02' to nail in 10-inch thorn clump, 21.63 feet 289° 05' to nail in 30-inch thorn tree; top of iron post (U. S. C. E. p. b. m. 820).....	356. 984
Whitmans Landing, 1,200 feet below, on top of bank, among trees, opposite head of Towhead Bar; 33.58 feet 84° 20' to nail in 18-inch elm tree, 6.65 feet 150° 55' to nail in 6-inch elm tree, 29.64 feet 274° 56' to nail in 36-inch maple tree; top of iron post (U. S. C. E. p. b. m. 821).....	359. 771
Mount Vernon towhead, opposite foot of, on long slope, among trees; 24.90 feet 67° 03' to nail in 6-inch willow tree, 35.61 feet 138° 40' to 14-inch willow tree with nail in it, 38.55 feet 227° 55' to nail in 14-inch willow tree; top of iron post (U. S. C. E. p. b. m. 822).....	348. 329
Mount Vernon, Ind., on top of slope, among willows, opposite ferry landing and wharf on left bank; 2.78 feet 64° 24' to nail in 4-inch willow tree, 7.56 feet 113° 57' to nail in 4-inch willow tree; 8.52 feet 215° 07' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 823).....	345. 128
Heggermans Landing, about 800 feet above, on top of slope, among trees, 25 feet from edge of cultivation, 1,000 feet below one-story red frame house on right bank; 11.92 feet 262° to nail in 14-inch willow tree, 11.65 feet 209° 31' to nail in 14-inch willow tree, 6.73 feet 122° 42' to nail in 12-inch willow tree; top of iron post (U. S. C. E. p. b. m. 824).....	346. 435
Slim Island, about 0.5 mile above, on slope, among trees, 50 feet from edge of cultivation, 2,900 feet above Henderson-Union county line; 7.55 feet 240° 00' to nail in 8-inch willow tree, 10.97 feet 109° 07' to nail in 6-inch willow tree, 6.23 feet 45° 29' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 825).....	339. 785
Slim Island, on top of bank, in cornfield, 25 feet from edge of road, 100 feet above turn in road, 800 feet above large barn and windmill on island, 134.98 feet 289° 58' to nail in 42-inch cottonwood tree, 54.78 feet 342° 14' to 48-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 826)...	356. 571
Slim Island, opposite center of, 40 feet from edge of bank, in cornfield; 52.53 feet 342° 37' to nail in 18-inch maple tree, 96.96 feet 65° 51' to nail in 36-inch maple tree; top of iron post (U. S. C. E. p. b. m. 827).....	352. 984

Slim Island, 2,800 feet above Government light at foot of, on slope, among weeds and willows, 25 feet from edge of cultivation; 16.47 feet 29° 31' to nail in 8-inch willow tree, 20.60 feet 317° 47' to nail in 8-inch cottonwood tree, 16.52 feet 346° 04' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 828).....	Feet. 344. 618
Slim Island towhead, opposite head of, on top of bank, in cornfield, 2,200 feet below Government light at foot of Slim Island; top of iron post (U. S. C. E. p. b. m. 829).....	351. 513
Slim Island towhead, 800 feet below foot of, on top of slope, among willows, 10 feet from edge of cultivation; 8.59 feet 67° 09' to nail in 4-inch willow tree, 3.46 feet 240° 15' to nail in 4-inch willow tree, 9.12 feet 329° 26' to nail in 2-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 830).....	342. 574
Mississippi Bend, at upper end of, on top of slope, among willows, 20 feet from edge of cultivation, 300 feet above barn and clump of trees on right bank; 7.19 feet 42° to nail in 8-inch willow tree, 5.36 feet 183° 28' to nail in 6-inch willow tree, 22.54 feet 299° 22' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 831).....	342. 052
Poker Point, above, 100 feet from edge of bank, in cornfield, 150 feet above frame shack on left bank; 141.14 feet 262° 28' to northeast gable of barn; top of iron post (U. S. C. E. p. b. m. 833).....	353. 830
Highland Rocks, opposite, 100 feet from edge of bank, in cornfield, 1,000 feet above two-story frame house on right bank; 49.18 feet 4° 52' to nail in 4-inch post, 50.7 feet 60° 42' to nail in 4-inch fence post, 80.25 feet 328° 45' to nail in post; top of iron post (U. S. C. E. p. b. m. 834).....	346. 902
Uniontown, Ky., 2,000 feet above landing, on slight slope, among thick willows, 300 feet above small creek; 8.92 feet 109° 40' to nail in 4-inch willow tree, 15.5 feet 157° 09' to nail in 4-inch willow tree, 20.15 feet 265° 05' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 835).....	334. 452
Uniontown, Ky., on slope, among trees, 50 feet toward river from boiler shed of Union Co. Distillery; 11.80 feet 53° 06' to nail in 8-inch cottonwood tree, 18.47 feet 301° 16' to nail in 12-inch cottonwood tree, 8.18 feet 322° 33' to nail in 14-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 836).....	344. 803
Lower Highland Rock, 2,600 feet above central point of, on slope, in cornfield, 75 feet below tall burned snag; 75.43 feet 5° 17' to nail in 12-inch cottonwood tree, 75.85 feet 18° 44' to nail in 12-inch willow tree, 84.43 feet 355° 10' to nail in 24-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 837).....	344. 375
Wabash Island, 3,400 feet above Government light at head of, on right bank, on slope, among trees, 75 feet from edge of cultivation; 6.87 feet 214° 16' to nail in 14-inch cottonwood tree, 19.59 feet 298° 55' to nail in 16-inch cottonwood tree, 8.21 feet 344° 28' to nail in 8-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 838).....	343. 987
Wabash Island, 800 feet above head of, on slope, among trees, 50 feet from edge of cultivation; 15.84 feet 231° 23' to nail in 4-inch sycamore tree, 43.47 feet 274° 40' to nail in 12-inch sycamore tree, 14.43 feet 347° 54' to tree; top of iron post (U. S. C. E. p. b. m. 839).....	339. 840

NEW HAVEN QUADRANGLE.

[Latitude 37° 45'-38°; longitude 88°-88° 15'.]

From point near Lost Creek along Ohio River to point near Raleigh, Ky.

Lost Creek, 1,000 feet below, on top of slope, among willows, 30 feet from edge of cultivation, 500 feet above two-story frame house on bank of Wabash Island; 21.74 feet 8° 22' to nail in 8-inch willow tree, 16.91 feet 210° 10' to nail in 8-inch willow tree, 23.61 feet 326° 56' to nail in tree; top of iron post (U. S. C. E. p. b. m. 840).....	Feet. 337. 491
Wabash Island, opposite two-story frame house on, on terrace, among trees; 22.45 feet 27° 53' to nail in 6-inch willow tree, 14.16 feet 267° 25' to nail in 12-inch cottonwood tree, 23.02 feet 339° 44' to nail in 14-inch willow tree; top of iron post (U. S. C. E. p. b. m. 841).....	338. 676
Wabash Island, 1,200 feet below Government light at foot of, on top of slope, among trees, 50 feet from edge of cornfield; 31.01 feet 4° 10' to nail in 12-inch sycamore tree, 34.36 feet 21° 33' to nail in 10-inch sycamore tree, 32.33 feet 339° 55' to nail in 10-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 842).....	338. 195
Wabash Island, about 1.25 miles below, on first terrace, among trees, 2,000 feet above first bare bank on left bank; 10.95 feet 117° 50' to nail in 4-inch willow tree, 9.99 feet 184° 21' to nail in 4-inch willow tree, 6.31 feet 255° 12' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 843).....	331. 074

SHAWNEETOWN QUADRANGLE.

[Latitude 37° 30'-37° 45'; longitude 88°-88° 15'.]

From point near Raleigh, Ky., along Ohio River to Tradewater Island.

Raleigh Landing, Ky., above, 100 feet back from top of bank, in field, 35 feet above row of dead trees (probably property line); 58.53 feet 199° 06' to nail in 26-inch dead thorn tree, 40.90 feet 207° 16' to nail in 6-inch dead thorn tree, 22.80 feet, 288° 20' to nail in 20-inch dead thorn tree; top of iron post (U. S. C. E. p. b. m. 844).....	353. 225
Raleigh, 125 feet back from edge of bank, halfway between barn and frame store building about 100 feet apart (store has Government light on it); 26.83 feet 75° 40' to nail in 48-inch pecan tree, 80.70 feet 198° 27' to nail in 48-inch thorn tree, 98.75 feet 329° 14' to southeast corner of white house; top of iron post (U. S. C. E. p. b. m. 845).....	350. 371
Browns Island, opposite head of, on top of bank, at edge of road, upper end of clump of large trees, 1,000 feet below frame house at turn in road; 72.37 feet 40° 05' to nail in 8-inch dead hackberry tree, 68.8 feet 261° 48' to nail in 4-inch hackberry tree, 60.95 feet 276° 44' to nail in 8-inch hackberry tree, 65.66 feet 304° 45' to nail in 48-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 846).....	350. 620
Browns Island, below foot of, on top of bank, in cornfield, 15 feet back from edge of road, 300 feet below Government light on left bank; 14.93 feet 11° 53' to nail in fence post, 21.37 feet 48° 36' to nail in fence post, 18.33 feet 324° 24' to nail in fence post; top of iron post (U. S. C. E. p. b. m. 847).....	349. 616
Shawneetown, Ill., near, on top of slope, at lower edge of road, 300 feet above frame house on left bank; 39.29 feet 11° 55' to nail in 14-inch cottonwood tree, 47.76 feet 62° 36' to nail in 12-inch sycamore tree, 23.55 feet 331° 32' to nail in 16-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 847).....	345. 027

Shawneetown, Ill., directly opposite Riverside Hotel, on first terrace, among thick willows, 1,200 feet below ferry landing on Kentucky side; 10.83 feet 86° 20' to nail in 10-inch cottonwood tree, 6.41 feet 346° 10' to nail in 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 849).....	Feet. 332. 293
Shawneetown, Ill., 1 mile below, on top of bank, among trees, 50 feet from edge of cornfield, opposite small frame house on right bank; 17.1 feet 120° to nail in 8-inch maple tree, 9.9 feet 161° 47' to nail in 4-inch box elder tree, 19.58 feet 261° 51' to nail in 6-inch hackberry tree; top of iron post (U. S. C. E. p. b. m. 850).....	345. 655
Shawneetown, Ill., 2 miles below, 40 feet from edge of bank, among trees, and 2,200 feet above Government light on right bank; 12.15 feet 4° 56' to nail in tree, 16.09 feet 21° 50' to nail in 4-inch willow tree, 18.17 feet 326° 19' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 851).....	344. 769
Shawneetown Bend, 400 feet above upper end of towhead, on first terrace, among thick willows; 6.46 feet 47° 50' to nail in 6-inch willow tree, 4.65 feet 205° 18' to nail in tree, 9.39 feet 271° 01' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 852).....	333. 372
Cincinnati Towhead, on top of bank, at edge of cornfield, at head of, 11.62 feet 4° 37' to nail in 8-inch willow tree, 22.54 feet to nail in 10-inch willow tree, 27.68 feet 287° 15' to nail in 12-inch willow tree; top of iron post (U. S. C. E. p. b. m. 853).....	333. 867
Cincinnati Towhead, about center of, on sand bar, among small willows, 600 feet below Government light on right bank; 10.92 feet 29° to 2-inch willow tree, 8.91 feet 155° 42' to nail in 2-inch willow tree, 17.1 feet 182° 38' to nail in 2-inch willow tree; top of iron post (U. S. C. E. p. b. m. 854).....	327. 107
Cincinnati Towhead, near foot of, in cornfield, 40 feet back from top of bank, 1,500 feet below small frame house on right bank; top of iron post (U. S. C. E. p. b. m. 855).....	340. 791
Saline Bar, opposite center of, in cornfield, 30 feet back from edge of cultivation, 2,000 feet below Government light on left bank; top of iron post (U. S. C. E. p. b. m. 856).....	338. 770
Saline Bar, near foot of, on top of bank, among willows, 20 feet from edge of cultivation, 2,000 feet above Government light at foot of Saline Island; 12.75 feet 55° 49' to nail in 6-inch willow tree, 14.8 feet 158° 53' to nail in 6-inch willow tree, 26.72 feet 319° 25' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 857).....	331. 452
Saline River, opposite point 1,300 feet below mouth of, on first terrace, among willows, 500 feet above frame house on left bank; 11.12 feet 43° 20' to nail in 6-inch willow tree, 3.42 feet 104° 09' to nail in 3-inch willow tree, 4.85 feet 222° 13' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 858).....	324. 628
Saline River, 1.25 miles below, on top of slope, among trees, at clump of large cottonwood trees, 1,500 feet above Government light on right bank; 23.12 feet 60° 17' to nail in 14-inch willow tree, 139° 37' 40.39 feet to nail in 14-inch cottonwood tree, 26.51 feet 311° 14' to nail in 16-inch willow tree; top of iron post (U. S. C. E. p. b. m. 859).....	334. 303
DeKoren Landing, 3,000 feet above, on top of bank, 50 feet below edge of road, 500 feet below frame house on right bank; 24.43 feet 11° 10' to nail in 6-inch willow tree, 27.6 feet 109° 20' to nail in 14-inch cottonwood tree, 16.57 feet 243° 45' to nail in 12-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 860).....	331. 503

Dekoren coal elevator, 2,000 feet below, on top of bank, in cornfield, 40 feet from edge of road, 102.08 feet 75° 52' to nail in 12-inch post, 142.2 feet 305° 45' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 860A).....	Feet. 340. 213
Caseyville, 1 mile below, on top of bank 25 feet from edge; 142 feet 129° 40' to nail in 4-inch locust tree, 293.57 feet 145° 18' to nail in 12-inch hickory tree; top of iron post (U. S. C. E. p. b. m. 862).....	340. 941
Tradewater River, 1,100 feet above mouth of, on top of bank, 9 feet west of elm tree, 0.5 mile below West Kentucky coal tipple; 34.65 feet 79° 40' 20'' to nail in 4-inch sycamore tree, 7.05 feet 163° 02' to nail in 30-inch red elm tree; top of iron post (U. S. C. E. p. b. m. 863).....	336. 751
Tradewater Island, 350 feet below foot of, on ridge west of pecan grove, 200 feet from top of bank; 85.08 feet 94° 09' to 15-inch pecan tree, 113.65 feet 132° 34' to 24-inch pecan tree, 127.2 feet 206° 21' to 15-inch pecan tree; top of iron post (U. S. C. E. p. b. m. 864).....	341. 911

FORDS FERRY QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 88°-88° 15'.]

From Tradewater Island along Ohio River to point near Orrs Landing.

Weston, Ky., 2,300 feet above, on top of bank 35 feet back from edge; 17.82 feet 190° 42' 20'' to nail in 4-inch willow tree, 20.79 feet 221° 37' 40'' to nail in 6-inch willow tree, 25.30 feet 269° 51' 20'' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 865).....	330. 688
Weston, Ky., 2,900 feet below, 40 feet back from top of bank, 500 feet below ravine; 75.65 feet 160° 04' 50'' to nail in 12-inch cedar tree, 38.8 feet 201° 37' 40'' to nail in 4-inch sycamore tree, 64.5 feet 279° 22' 40'' to nail in 12-inch thorn tree; top of iron post (U. S. C. E. p. b. m. 866).....	345. 543
Fords Ferry, Ky., 4,000 feet above, 40 feet from top of bank, in field, about 200 feet above a 1½-story frame house on Illinois side, 350 feet below ravine, on property of W. L. Clements; 185.76 feet 183° 43' to nail in 20-inch mulberry tree, 164.95 feet 192° 33' to nail in 15-inch cedar tree; top of iron post (U. S. C. E. p. b. m. 867).....	343. 672
Fords Ferry, Ky., on top of bank, on land of H. McConnell, 500 feet below frame house on Illinois side, 1,800 feet below Crooked Creek, at foot of 18-inch willow tree; 23.68 feet 37° 55' 20'' to nail in 12-inch willow tree, 12.72 feet 109° 54' to nail in 12-inch willow tree, 23.85 feet 280° 54' 40'' to nail in 12-inch willow tree; top of iron post (U. S. C. E. p. b. m. 868)...	326. 891
Cave in Rock Island, opposite point 2,000 feet upstream from vegetation on, on top of bank, 25.31 feet 65° 32' 40'' to nail in 16-inch willow tree, 53.24 feet 84° 29' to nail in 18-inch willow tree, 21.38 feet 295° 29' 20'' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 869)...	337. 403
Cave in Rock Island, 2,400 feet above lower end of, 100 feet back from top of bank, in cultivated field; 175.8 feet 162° 11' 20'' to nail in 6-inch willow tree, 159.04 feet 174° 53' 40'' to nail in 6-inch maple tree, 87.10 feet 251° 00' 20'' to nail in box elder tree; top of iron post (U. S. C. E. p. b. m. 870).....	339. 184
Cave in Rock Island, Ill., 660 feet below Government light on opposite shore, 40 feet back from top of bank, on J. B. Easley's land; 45.44 feet 17' to nail in 12-inch cottonwood tree, 60.10 feet 42° 53' 40'' to nail in 6-inch willow tree, 55.07 feet 332° 38' 40'' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 871).....	327. 805

Walker Bar Towhead, 30 feet back from top of bank, in cultivated field, opposite upper end of rock ledge on right bank; 52.44 feet $96^{\circ} 48'$ to nail in cottonwood stump, 167.94 feet $262^{\circ} 06'$ to nail in 8-inch thorn tree, 55.75 feet $345^{\circ} 38'$ to nail in 10-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 872).....	Feet. 330. 496
Walker Bar Towhead, opposite center of, 60 feet back from top of bank, in cultivated field, 200 feet below point opposite creek on right bank; 65.47 feet $147^{\circ} 14'$ to nail in cottonwood stump, 118.45 feet $307^{\circ} 28' 40''$ to nail in 6-inch sycamore tree, 93.75 feet $329^{\circ} 18'$ to nail in double sycamore tree; top of iron post (U. S. C. E. p. b. m. 873).....	337. 566
Walkers Bar Towhead, opposite point about 400 feet below, 0.8 mile above Big Hurricane Island, opposite point about 500 feet below Government light on right bank, on top of bank, in cultivated field, opposite point about 2,000 feet above cliff on right bank; 137.40 feet $124^{\circ} 09' 40''$ to nail in 6-inch thorn tree, 98.70 feet $143^{\circ} 26'$ to nail in 26-inch thorn tree, 127.14 feet $231^{\circ} 15' 40''$ to nail in 8-inch double walnut tree; top of iron post (U. S. C. E. p. b. m. 874).....	337. 033
Big Hurricane Island, opposite point 1,200 feet above slough on, on lower terrace of willow thicket, 1,700 feet below head of Hurricane Island Towhead; top of iron post (U. S. C. E. p. b. m. 875).....	321. 015
Tolu, Ky., in back yard of J. O. Brown, 100 feet below Hurricane Creek; 30.40 feet $82^{\circ} 36'$ to northwest corner of house on Kentucky side; 185.70 feet $307^{\circ} 14' 20''$ to nail in 10-inch thorn tree; top of iron post (U. S. C. E. p. b. m. 876).....	338. 642

GOLCONDA QUADRANGLE.

[Latitude $37^{\circ} 15'-37^{\circ} 30'$; longitude $88^{\circ} 15'-88^{\circ} 30'$.]

From point near Orrs Landing along Ohio River to point near Pryors Island.

Orrs Landing, opposite point 1,000 feet below, 45 feet back from lower terrace in willow thicket; 14.7 feet $96^{\circ} 37' 40''$ to nail in 5-inch willow tree; 13.27 feet $173^{\circ} 26'$ to nail in 4-inch willow tree; 26.71 feet $206^{\circ} 02'$ to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 880).....	327. 790
Rose Clar Lead Mine, 1,400 feet above landing of lead mine, on top of bank, at edge of cultivated field, opposite old frame house on hillside on right bank; 11.24 feet $10^{\circ} 21' 20''$ to nail in 5-inch willow tree, 30.54 feet $71^{\circ} 11' 00''$ to nail in 6-inch willow tree, 15.4 feet $322^{\circ} 21'$ to tree; top of iron post (U. S. C. E. p. b. m. 881).....	325. 454
Rose Clar Mine incline, about opposite center of, on top of bank, at edge of cultivation, opposite center of bluff on right bank, 0.5 mile above point of Irish Jimmies Bar; 18.22 feet $31^{\circ} 22'$ to nail in 8-inch willow tree, 20.94 feet $301^{\circ} 42'$ to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 882).....	323. 211
Carrsville Landing, Ky., 3,400 feet above, on top of bank, at edge of cultivation, about halfway between Buck and Deer creeks, 36.15 feet $39^{\circ} 56' 20''$ to nail in 6-inch sycamore tree, 16.65 feet $65^{\circ} 36' 40''$ to nail in 14-inch maple tree, 28.08 feet $303^{\circ} 31'$ to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 883).....	333. 726
Carrsville, 1,200 feet below mill at, on hillside; 24.78 feet $5^{\circ} 51'$ to cross on rock, 48.80 feet $85^{\circ} 35'$ to cross on rock, 15.56 feet $114^{\circ} 15' 40''$ to cross on rock; sandstone rock marked "U. S. \square B. M." (U. S. C. E. p. b. m. 884).....	342. 244

McElroys Landing, 1,700 feet above, on top of bank, at edge of cultivation, opposite upper end of rocky cliff on left bank, opposite point about 300 feet below barn on right bank, 0.5 mile below rocky cliff on left bank; 11.37 feet 31° 56' 40" to nail in 3-inch willow tree, 24.5 feet 67° 25' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 885)....	Feet. 317.030
Grand Pierre Bar, near head of, in field of J. T. Cox, near barbed-wire fence, underneath one of a row of cherry trees, opposite point midway between Government light and house with two dormer windows; 243.95 feet 262° 56' 40" to nail in 28-inch hickory tree, 265.50 feet 278° 41' to nail in 24-inch hickory tree; top of iron post (U. S. C. E. p. b. m. 886)..	340.096
Grand Pierre Creek, opposite point 0.5 mile above, on top of lower terrace, at edge of cultivation, opposite point about midway between Government light and lower end of cliff on right bank; 9.11 feet 41° 49' to nail in 6-inch willow tree, 8.46 feet 79° 39' to nail in 8-inch willow tree, 28.4 feet 286° 53' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 887).....	318.168
Buena Vista, Ill., opposite, on top of bank, at edge of cultivation, opposite small white house with large chimneys on each end, 500 feet below large barn with ventilator on right bank, opposite point 3,280 feet below Grand Pierre Creek, 900 feet above portable sawmill on J. N. Walter's property; 20.86 feet 3° 28' to 10-inch willow tree, 29.54 feet 24° 16' to nail in 10-inch willow tree, 32.8 feet 345° 01' to nail in 10-inch willow tree; top of iron post (U. S. C. E. p. b. m. 888).....	322.271
Golconda Island, near head of, on top of bank, in willow thicket, opposite point midway between two barns on top of cliff on right bank; 7.82 feet 161° 32' to nail in 5-inch willow tree, 5.62 feet 276° to nail in 6-inch cottonwood tree, 12.15 feet 347° 19' to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 889).....	319.987
Golconda Island, behind, on top of lower terrace, just below cultivated field, opposite point 200 feet above log house (chimney on upper end), on left bank, opposite point 250 feet below barbed-wire fence on left bank along row of walnut and elm trees; 22.59 feet 20° 20' to nail in 4-inch willow tree, 19.86 feet 42° 43' to nail in 5-inch willow tree, 34.22 feet 291° 54' to nail in 5-inch willow tree, 25.77 feet 341° 43' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 890).....	323.181
Golconda Island, about opposite lower end of, about 400 feet below creek on left bank, on top of bank, at edge of cultivation; 229 feet 104° 11' to nail in 24-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 891)..	333.948
Golconda, Ill., at foot of upper terrace, opposite point about midway between lower landing and small unpainted house on cliff on right bank, 700 feet below ferry landing on left bank; top of iron post (U. S. C. E. p. b. m. 892).....	315.775
Golconda, on lower end of warehouse downstream side on wharf, on stone tablet; high-water mark of 1883.....	349.277
Same, high-water mark of 1884 (U. S. C. E.).....	350.747

BROWNFIELD QUADRANGLE.

[Latitude 37° 15'-37° 30'; longitude 88° 30'-88° 45'.]

From Pryors Island along Ohio River to point below Bayou Landing.

Pryors Island, near head of sand bar, on top of bank, at edge of cultivation, 2,300 feet below Gilligans Creek on left bank, opposite point 200 feet below large sycamore tree on left bank; 38.4 feet 22° 31' to nail in 5-inch willow tree, 35.45 feet 346° 27' 20" to nail in 4-inch willow tree, 47.25 feet 357° 32' to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 893).....	320.550
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Pryors Island, opposite point 4,680 feet below head of, 300 feet above house, opposite point 0.5 mile below house with barn (shed on upper end), on right bank, 30 feet from top of bank, in cultivated field; top of iron post (U. S. C. E. p. b. m. 894).....	Feet. 332. 253
Pryors Island, 2,200 feet above lower end of, on top of bank, at edge of cultivation, opposite bunch of large sycamore trees on left bank; 22.09 feet 35° 14' to nail in 5-inch willow tree, 24.13 feet 70° 38' to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 895).....	320. 964
Lovers Leap, opposite, on top of bank, at edge of cultivation, under a bunch of three cottonwood trees, opposite point 300 feet below Lovers Leap Light on right bank; 12.02 feet 38° 11' to nail in 24-inch cottonwood tree, 65.56 feet 315° 58' to nail in 8-inch double elm tree, 24.04 feet 357° 43' to nail in 24-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 896).....	331. 020
Sisters Island, near head of, 50 feet back from top of bank, in cultivated field, back of bunch of large cottonwood trees growing along left bank opposite a point about 1,200 feet below small white house in bottom on right bank; 51.5 feet 2° 13' to nail in 12-inch cottonwood tree, 55.7 feet 9° 54' to nail in 20-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 897).....	327. 055
Sisters Islands, opposite point midway between the lower ends of the two islands, on top of lower terrace, in willow thicket; 29.98 feet 138° 11' to nail in 4-inch willow tree, 20.59 feet 208° 17' to nail in 6-inch cottonwood tree, 25.47 feet 246° 28' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 898).....	317. 827
Bay City, Ill., near, on top of bank, at edge of cultivation, opposite Government light on right bank, opposite point about 500 feet below Big Bay Creek on right bank, opposite point 900 feet above white frame house on left bank; 42.86 feet 40° 21' to nail in 30-inch cottonwood stump, 20.56 feet 316° 43' to nail in 8-inch hickory tree; top of iron post (U. S. C. E. p. b. m. 899).....	334. 885
Bay City, Ill., below, about 2,400 feet above Bayou Creek, 20 feet back from top of bank, in cultivated field, opposite summit of first hill on right bank; 44.45 feet 20° 15' to nail in 4-inch willow tree, 48.5 feet 339° 42' to nail in 4-inch willow tree, 45.35 feet 358° 22' to nail in 4-inch willow tree; top of iron post (U. S. C. E. p. b. m. 900).....	318. 625
Bayou Landing, 650 feet below, on top of bank 40 feet back from edge, in cultivated field; 55.43 feet 5° 51' 40'' to nail in 5-inch willow tree, 58.50 feet 30° 30' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 901).....	326. 338

SMITHLAND QUADRANGLE.

[Latitude, 37°-37° 15'; longitude, 88° 15'-88° 30'.]

From point near Bayou Landing along Ohio River to point near Ledbetters Landing.

Bayou Landing, below, on top of bank, 200 feet above Government light on left bank, near lower edge of ravine; 14.04 feet 69° 30' to 6-inch thorn tree, 87.30 feet 81° 09' 20'' to northeast corner of stone chimney, 49.60 feet 113° 07' to nail in 4-inch butternut tree, 23.28 feet 195° 32' to nail in 10-inch locust tree; top of iron post (U. S. C. E. p. b. m. 902).....	343. 366
Birdsville, Ky., 400 feet above, 40 feet back from top of bank, 30 feet above old sawmill; 105.75 feet 89° 06' 40'' to southwest corner of house, 38.68 feet 115° 15' to post in ground; top of iron post (U. S. C. E. p. b. m. 903)...	332. 161

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Birdsville, Ky., on stone curbing in front of first building southwest from post office; cut on sandstone rock marked "U. S." (U. S. C. E. p. b. m. 903A).....	Feet. 335. 771
Birdsville, Ky., 1 mile below, on top of bank 30 feet back from edge, in cultivated field, 4,700 feet below creek, opposite point 3,380 feet below lower end of Stewarts Island; 60.2 feet 23° 25' to nail in 5-inch willow tree, 54.55 feet 338° 14' to nail in 10-inch willow tree; top of iron post (U. S. C. E. p. b. m. 904).....	316. 913
Stewarts Island Towhead, 1,555 feet below, on lower terrace, at edge of cultivated field and willow thicket, opposite point 2,500 feet above barn on right bank, 9.94 feet 14° 14' to nail in 3-inch willow tree, 20.05 feet 72° 23' to nail in 3-inch willow tree, 21.82 feet 299° 51' to nail in 3-inch willow tree; top of iron post (U. S. C. E. p. b. m. 905).....	312. 781
Dog Island, 1 mile above, on top of steep bank 60 feet back from edge, in cultivated field, about 500 feet below ravine on left bank, opposite point 50 feet above double log house on left bank, back of row of thorn trees; 190.50 feet 167° 32' 40'' to northwest corner of old house, 182.20 feet 184° 17' 20'' to nail in 12-inch thorn tree; top of iron post (U. S. C. E. p. b. m. 906).....	324. 288
Dog Island, about center of, 25 feet from top of bank, near large pecan tree in cultivated field, 1,000 feet below Government light on tree; 77.23 feet 1° 55' to nail in 48-inch hickory tree, 33.97 feet 69° 08' to nail in 18-inch hickory tree, 45.70 feet 318° 20' 40'' to 6-inch walnut tree; top of iron post (U. S. C. E. p. b. m. 907).....	327. 073
Cumberland River, 1 mile above mouth of, opposite upper end of Cumberland Island, 2,000 feet above Caney Creek on left bank, 35 feet back from top of bank, in cultivated field, opposite point 2,000 feet below Dog Island government light; top of iron post (U. S. C. E. p. b. m. 908).....	320. 762
Smithland, 600 feet below wharf, at foot of riprap bank, 30 feet west of center of Front Street, in line with center of alley just above Chas. H. Webb's law office; 44.05 feet 229° 13' 40'' to northwest corner of old house on Kentucky side, 142.80 feet 289° 56' 40'' to northeast corner of hotel; top of iron post (U. S. C. E. p. b. m. 909).....	321. 185
Smithland, Ky., on Front Street, in front of one-story frame building belonging to C. B. Davis; cut on stone about 8 by 10 inches, marked "U. x S." (U. S. C. E. p. b. m. 909A).....	335. 174
Smithland, Ky., 1 mile below, on top of bank 30 feet back from edge, in cultivated field, 1,600 feet below first creek below Smithland; 58.85 feet 6° 29' to nail in 6-inch willow tree, 49.3 feet 338° 50' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 910).....	318. 791
Cumberland Island, Ky., opposite point about 300 feet above lower light on, 3,155 feet below head of dike, 50 feet back from top of bank in cultivated field; 177.50 feet 77° 04' to nail in 8-inch dead sycamore tree; top of iron post (U. S. C. E. p. b. m. 911).....	326. 515
Cottonwood Bar, near head of, at edge of cultivation, 3,000 feet above Government light on left bank, opposite lower end of row of thorn trees along top of left bank; 39.39 feet 63° 14' 40'' to nail in 5-inch willow tree, 27.64 feet 317° 31' 40'' to nail in 6-inch willow tree, 20.20 feet 352° 58' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 913).....	314. 960
Caney Creek, 600 feet below, on top of lower terrace, about 80 feet from foot of bank, 2,000 feet above Brick House Landing; 17.82 feet 47° 21' to nail in 3-inch willow tree, 23.2 feet 119° 18' to nail in 4-inch willow tree, 40.3 feet 297° 02' 40'' to nail in 10-inch willow tree; top of iron post (U. S. C. E. p. b. m. 914).....	314. 955

Caney Creek, 2,300 feet below, on top of first terrace back about 265 feet from edge, about on line between cultivated field and timber; 59.19 feet 123° 26' to nail in 12-inch cottonwood tree, 47.25 feet 173° 47' to nail in 12-inch cottonwood tree, 52.53 feet 195° 11' to nail in 10-inch sycamore tree, 56.33 feet 211° 19' to nail in 10-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 915).....	Feet. 323. 334
Ledbetters Landing, above, on top of lower terrace, 30 feet back in cultivated field, at foot of upper bank, near edge of timber about opposite lower end of Cottonwood Bar, opposite point 1,500 feet below shed on on right bank; 4.66 feet 5° 35' to nail in thorn stump, 28.76 feet 137° 36' to nail in 6-inch thorn tree, 17.98 feet 168° 34' to nail in 6-inch sycamore tree, 16.65 feet 232° 53' to nail in 6-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 916).....	328. 582

PADUCAH QUADRANGLE.

[Latitude 37°-37 15'; longitude 88° 30'-88° 45'.]

From point near Crowells Landing along Ohio River to point near Massac Creek.

Crowells Landing, 600 feet above, on top of bank, 15 feet back in cultivated field, opposite point 1,800 feet above house on right bank behind trees; 44.65 feet 1° 14' 40'' to nail in 2-inch willow tree, 47 feet 22° 56' to nail in 6-inch willow tree, 51.72 feet 336° 11' 20'' to nail in 7-inch willow tree; top of iron post (U. S. C. E. p. b. m. 917).....	311. 029
Indiana Bar, at head of, on top of first terrace, about 12 feet from foot of bank, opposite a point about 2,500 feet above Government light on right bank; 16.71 feet 131° 40' to nail in 10-inch cottonwood tree, 11.61 feet 192° 56' to nail in 4-inch cottonwood tree, 12.25 feet 250° 43' to nail in 5-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 918).....	308. 209
Indiana Bar, near foot of, on top of bank, 40 feet back in cultivated field, opposite point about 600 feet below barn on right bank and 2,000 feet above landing on right bank; 70.32 feet 38° 56' 20'' to nail in 4-inch honey-locust tree, 116.40 feet 56° 19' to nail in 50-inch double sycamore tree, 77.4 feet 344° 03' to nail in 6-inch pecan tree; top of iron post (U. S. C. E. p. b. m. 919).....	325. 985
Tennessee River, 1 mile above, 30 feet back from top of bank, 1,300 feet below Government light on pecan tree north of wagon road on left bank, opposite point 2,500 feet below landing on right bank; 22.21 feet 1° 10' to nail in 8-inch hackberry tree, 23.40 feet 83° 20' to nail in 10-inch boxelder tree, 17.62 feet 191° 12' to nail in 14-inch boxelder tree, 12.19 feet 230° 45' to nail in 10-inch hackberry tree, 47.23 feet 304° 20' 40'' to nail in 60-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 920)....	324. 237
Livingston Point, 1,200 feet above, at mouth of Tennessee River, about halfway up bank; 13.65 feet 6° 48' to nail in 7-inch willow tree, 14 feet 76° 06' to nail in 8-inch cottonwood tree, 17.12 feet 155° 17' to nail in 12-inch cottonwood tree, 10.05 feet 221° 13' to nail in 9-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 921).....	306. 567
Tennessee Island, at lower edge of timber on upper end of, on top of bank, opposite point 700 feet above house on Tennessee Island; 37.20 feet 144° 44' to nail in 20-inch elm tree, 45.58 feet 191° 04' to nail in 30-inch cottonwood tree, 312° 59' 41.18 feet to nail in 12-inch hackberry tree; top of iron post (U. S. C. E. p. b. m. 922).....	324. 011

Paducah, Ky., near top of levee, 19.4 feet behind building belonging to Armour & Co., about 13.6 feet above lower line of Armour's building, 26.36 feet from northwest corner of same; 68.05 feet 136° 51' to north-east corner of Armour & Co. building; top of iron post (U. S. C. E. p. b. m. 923).....	Feet. 326.571
Paducah, Ky., 14-foot mark on permanent gage at (U. S. C. E. p. b. m. 923A).....	300.332
Paducah, Ky., 600 feet below pole incline and 150 feet below third from top group of piling on Illinois Central R. R. incline, about opposite point 30 feet above brickyard stack on left bank; 76.65 feet 15° 14' 40'' to 12-inch pile, 95.78 feet 76° 41' to 12-inch pile, 111.73 feet 287° 07' to nail in 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 924).....	306.864
Paducah, Ky.; high water of 1884 equals 54.4 feet on gage (U. S. C. E.) ...	340.731
Paducah Towhead, 1,000 feet below lower end of, 40 feet from water's edge, on left bank; 42.65 feet 60° 07' to nail in 18-inch willow tree, 33.1 feet 320° 10' to nail in 12-inch willow tree, 49.8 feet 358° 04' to nail in 12-inch willow tree; top of iron post (U. S. C. E. p. b. m. 925).....	311.805
Brookport, Ill., almost opposite landing of Illinois Central R. R. ferry at, 40 feet from water's edge, 60 feet below stranded barge; 14.89 feet 23° 20' to nail in 7-inch willow tree, 7.92 feet 90° 58' to nail in 8-inch willow tree, 24.15 feet 173° 40' to nail in 7-inch willow tree, 18.11 feet 313° 47' to nail in 12-inch willow tree; top of iron post (U. S. C. E. p. b. m. 926)...	308.354
Brookport, Ill., below, opposite point 1,000 feet below mouth of second creek below Brookport, on right bank; 28.08 feet 20° 35' to nail in 10-inch willow tree, 29.63 feet 45° 56' to nail in 5-inch willow tree, 44.34 feet 355° 56' to nail in 10-inch willow tree; top of iron post (U. S. C. E. p. b. m. 927).....	309.608
Massac Creek, Ill., about opposite, 15 inches below surface, 150 feet toward the river from two tall ivy-covered trees about 20 feet apart (the down-stream tree is a hackberry and the other is an ash); 12.33 feet 76° 55' to nail in 5-inch willow tree, 11.21 feet 182° 21' to nail in 8-inch willow tree, 13.03 feet 230° to nail in 8-inch willow tree, 12.23 feet 315° 49' to nail in 7-inch willow tree; top of iron post (U. S. C. E. p. b. m. 929).....	305.314
Fort Massac Bar, near foot of, edge of top of left bank, approximately 1,500 feet below Government light on right bank, 54 feet up bank from 2-foot cottonwood stump; 49.55 feet 112° 57' to tree, 68.45 feet 164° 42' to nail in 30-inch gum tree, 46.35 feet 358° 27' to nail in 12-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 930).....	312.666
Massac Creek, 100 feet up river from, on top of left bank, opposite point 1,200 feet up from Harrison Bros. Co. lumber yard at Metropolis, Ill.; 23.03 feet 59° 56' 40'' to nail in 10-inch willow tree, 32.38 feet 88° 19' 40'' to nail in 10-inch willow tree, 41.07 feet 124° 18' to nail in 15-inch willow tree, 7.44 feet 279° 28' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 931).....	305.217

JOPPA QUADRANGLE.

[Latitude 37°-37° 15'; longitude 88° 45'-89°.]

From Metropolis, Ill., along Ohio River to point near Grand Chain Landing.

Metropolis, Ill., approximately opposite Riverside Mills at, on top of bank, near twin cottonwood trees, 18 inches under surface; 43.30 feet 1° 34' to nail in 8-inch willow tree, 25.67 feet 21° 54' to nail in 15-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 932).....	309.773
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Metropolis, Ill., opposite lower end of, on top of bank, in front of sycamore tree, across river from small white farmhouse; 34.80 feet 76° 07' to nail in 20-inch willow tree, 27.45 feet 190° 09' to nail in 18-inch sycamore tree, 28.65 feet 261° 27' to nail in 20-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 933).	Feet. 309. 820
Metropolis, Ill., 1.5 miles below, on top of bank, in clump of large maple trees; 22.02 feet 82° 19' to nail in 18-inch sycamore tree, 34.68 feet 159° 43' 40'' to nail in 24-inch maple tree, 30.13 feet 218° 13' to nail in 20-inch maple tree, 32.27 feet 246° 02' to nail in 24-inch maple tree; top of iron post (U. S. C. E. p. b. m. 934).	310. 388
Metropolis, Ill., near Little Run, on top of bank, in edge of cornfield, 400 feet above Little Run Creek; 21.65 feet 3° 28' 40'' to nail in 12-inch cottonwood tree, 16.62 feet 64° 10' to nail in 7-inch sycamore tree, 22.53 feet 307° 59' to nail in 8-inch willow tree; top of iron post (U. S. C. E. p. b. m. 935).	307. 399
Walnut Creek, near, on top of bank, 15 feet toward river from edge of cornfield; 23.2 feet 6° 02' 40'' to nail in 6-inch willow tree, 43.95 feet 108° 40' to nail in 10-inch elm tree, 25.28 feet 179° 30' 40'' to nail in 36-inch sycamore tree, 34.36 feet 207° 24' 40'' to nail in 24-inch maple tree; top of iron post (U. S. C. E. p. b. m. 936).	310. 010
Joppa, Ill., 2.3 miles above, on top of bank, about 0.5 mile above Government light on right bank, 1 mile below Willow Creek; 32.76 feet 76° 42' 20'' to nail in 8-inch willow tree, 12.38 feet 176° 41' 20'' to nail in 6-inch willow tree 29.36 feet 230° 45' 20'' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 937).	306. 181
Joppa, Ill., 1.3 miles above, on top of bank; 51.62 feet 155° 22' 20'' to nail in 10-inch sycamore tree, 19.14 feet 250° 17' 40'' to fallen elm tree; top of iron post (U. S. C. E. p. b. m. 938).	310. 051
Joppa, Ill., opposite point 1,800 feet above landing at, on top of ridge; 32.06 feet 23° 50' 20'' to nail in 15-inch maple tree, 38.85 feet 100° 51' to nail in 30-inch cottonwood tree, 10.88 feet 237° 18' to nail in 6-inch sycamore tree, 25.58 feet 338° 12' to nail in 12-inch walnut tree; top of iron post (U. S. C. E. p. b. m. 939).	321. 565
Joppa, Ill., on bank approximately opposite point 600 feet below railroad transfer incline at; 28.7 feet 13° 01' to nail in 15-inch cottonwood tree, 13.3 feet 103° 30' to nail in 7-inch elm tree, 37.4 feet 216° 13' 20'' to nail in 12-inch sycamore tree, 59.88 feet 290° 19' 20'' to nail in 14-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 940).	317. 452
Hunting Creek, halfway up slope at edge of young cottonwood grove approximately opposite point on right bank 2,400 feet above barn, with ridge pole at right angles to river; 15.37 feet 113° 51' 20'' to nail in 7-inch cottonwood tree, 17.3 feet 168° 28' 20'' to nail in 8-inch cottonwood tree, 10.79 feet 212° 22' to nail in 8-inch cottonwood tree, 52.19 feet 265° 22' to nail in 10-inch willow tree; top of iron post (U. S. C. E. p. b. m. 941).	303. 819
Hillermans Landing, opposite point 1,000 feet below, on top of bank, at edge of oak grove; 36.2 feet 109° 09' 40'' to nail in 12-inch sycamore tree, 29.9 feet 165° 48' to nail in 10-inch black-oak tree, 22.56 feet 256° 47' 20'' to nail in 15-inch gum tree; top of iron post (U. S. C. E. p. b. m. 942).	317. 002
Ogdens Landing, Ky., 1 mile above, on top of bank at foot of large oak tree; 66.2 feet 87° 13' to nail in 18-inch catalpa tree, 35.62 feet 132° 28' 40'' to nail in 10-inch oak tree, 7.15 feet 197° 40' 20'' to nail in 36-inch oak tree, 41.27 feet 238° 59' 20'' to nail in 10-inch oak tree; top of iron post (U. S. C. E. p. b. m. 943).	319. 062

Ogdens Landing, Ky., above, on top of bank, near large lone sycamore tree at edge of Sycamore grove, about 450 feet above mouth of creek, near McCracken-Ballard county-line stone; 13.92 feet 81° 19' to nail in 7-inch sycamore tree, 44.17 feet 126° 51' 40'' to nail in 14-inch sycamore tree, 4.42 feet to nail in 10-inch sycamore tree, 26.12 feet 193° 13' 20'' to nail in 15-inch sycamore tree, 45.07 feet 266° 32' 40'' to nail in 15-inch ash tree; top of iron post (U. S. C. E. p. b. m. 944).....	Feet. 312. 212
Grand Chain, opposite head of, on top of bank, in shallow gully, 4,800 feet below creek; 13.27 feet 64° 27' to nail in 12-inch thorn tree, 24.55 feet 139° 51' to nail in 8-inch thorn tree, 18.68 feet 178° 43' 20'' to nail in 6-inch oak tree, 38.03 feet 276° to nail in 13-inch haw tree; top of iron post (U. S. C. E. p. b. m. 945)	316. 986

MOUND CITY QUADRANGLE.

[Latitude 37°-37° 15'; longitude 89°-89° 15'.]

From point near Grand Chain Landing along Ohio River to its mouth.

Grand Chain Landing, Ill., 1 mile above, on top of bank, just back from large sycamore tree and dead tree lying on bank parallel to river; 37.60 feet 6° 16' to nail in 15-inch sycamore tree, 16.75 feet 98° 41' 40'' to nail in 15-inch walnut tree, 36.25 feet 221° 48' 40'' to nail in 18-inch hackberry tree, 27.89 feet 337° 00' 20'' to nail in 30-inch sycamore tree; top of iron post (U. S. C. E. p. b. m. 947).....	320. 817
Grand Chain Landing, Ill., opposite, on top of bank, at edge of mixed grove, approximately opposite farm with 2 buildings and 1 outhouse, on top of bluff clay bank; 24.46 feet 112° 35' 40'' to nail in 12-inch pecan tree, 31.21 feet 168° 16' 20'' to nail in 14-inch sycamore tree, 32.41 feet 241° 25' 40'' to nail in 8-inch pecan tree, 13.23 feet 296° 39' to 12-inch pecan tree; top of iron post (U. S. C. E. p. b. m. 948).....	317. 401
Grand Chain Landing, Ill., 1 mile below, 3,000 feet above wreck of steamer Pittsburgh, on top of bank, near three large maple trees; 41 feet 133° 09' 20'' to nail in 12-inch sycamore tree, 39.4 feet 197° 01' to nail in 5-inch hickory tree, 31.75 feet 222° 54' to nail in 10-inch sycamore tree, 52.69 feet 246° 59' to nail in 30-inch sycamore or 30-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 949).....	306. 370
Grand Chain Landing, Ill., 2 miles below, 2,300 feet below wreck of steamer Pittsburgh, on top of bank, 40 feet in from edge of young cottonwood grove; 32.94 feet 60° 14' to nail in 10-inch cottonwood tree, 59.25 feet 112° 55' 40'' to nail in 7-inch sycamore tree, 173° 47' 40'' to nail in 22-inch honey-locust tree, 39.75 feet 204° 25' 40'' to nail in 20-inch elm root, 13.07 feet 333° 29' 40'' to nail in 12-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 950).....	308. 605
Caldonia Landing, Ill., 1.5 miles above, about 1,200 feet below small creek, on top of bank, near two tall trees, a sycamore and a pignut; 21.5 feet 51° 10' to nail in 10-inch cottonwood tree, 48.3 feet 186° 14' 20'' to nail in 24-inch pecan tree, 74.58 feet 228° 19' 40'' to nail in 10-inch pecan tree, 12.59 feet 312° 25' 20'' to nail in 7-inch willow tree; top of iron post (U. S. C. E. p. b. m. 951).....	310. 059
Caldonia Landing, Ill., 3,000 feet above, on bank, in bunch of willows and young cottonwoods and near large hackberry tree; 18.92 feet 6° 56' 20'' to nail in 9-inch cottonwood tree, 19.44 feet 37° 39' 20'' to nail in 10-inch willow tree, 14.55 feet 104° 12' 40'' to nail in 10-inch cottonwood tree, 11.77 feet 140° 15' to nail in 9-inch cottonwood tree, 19.6 feet 252° 45' to nail in 6-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 952),	303. 827

Caldonia Landing, Ill., 2,300 feet below, at turn of river, near two large maple trees on top of bank, dead sycamore tree lies on bank parallel to river; 16.36 feet 97° 27' 40'' to nail in 24-inch maple tree, 47.9 feet 193° 43' to nail in 18-inch cypress tree, 95 feet 219° 11' 40'' to nail in 20-inch elm tree, 34.47 feet 265° 42' 20'' to nail in 12-inch thorn tree; top of iron post (U. S. C. E. p. b. m. 953).....	Feet. 315. 534
Mayball's Landing, Ky., on top of bank, at lower end of grove of large willow trees, about 600 feet below farmhouse; 5.82 feet 92° 28' 20'' to nail in 10-inch willow tree, 28.63 feet 269° 33' 40'' to nail in 14-inch willow tree, 10.23 feet 310° 53' to nail in 9-inch willow tree; top of iron post (U. S. C. E. p. b. m. 954).....	309. 860
Humphries Creek, Ky., 500 feet below, on top of bank, in young willow grove; 28.75 feet 66° 09' to nail in 10-inch willow tree, 18.66 feet 172° 46' 20'' to nail in 10-inch willow tree, 38.85 feet 217° 24' to nail in 10-inch willow tree, 46.3 feet 261° 53' 40'' to nail in 10-inch willow tree, 9.7 feet 353° 43' 40'' to nail in 10-inch willow tree; top of iron post (U. S. C. E. p. b. m. 955).....	307. 971
Humphries Creek, Ky., 1 mile below, on bank, in young willow grove; 15.65 feet 77° 31' 20'' to nail in 7-inch willow tree, 31.45 feet 151° 50' 40'' to nail in 6-inch willow tree, 13.25 feet 228° 21' to nail in 8-inch willow tree, 13.33 feet 314° 01' to nail in 6-inch willow tree; top of iron post (U. S. C. E. p. b. m. 956).....	302. 925
Cache Island, 1.5 miles above, halfway up bank, beside large uprooted stump, 700 feet below Government light No. 457; top of iron post (U. S. C. E. p. b. m. 957).....	301. 738
Cache Island, 0.5 mile below, on top of bank, by fence in front of house on McDonnell estate; 70.4 feet 35° 57' 20'' to nail in 20-inch maple tree, 24.17 feet 111° 41' 20'' to northwest corner of house, 135° 24' 40'' 11.79 feet to southwest corner of house, 102.35 feet 287° 14' to nail in 12-inch walnut tree; top of iron post (U. S. C. E. p. b. m. 958).....	319. 216
Cache Island, 2,300 feet below head of, on top of bank behind island, in clump of young cottonwood trees; 50 feet 15° 00' 20'' to nail in 20-inch cottonwood tree, 29.73 feet 78° 18' to nail in 14-inch thorn tree, 58.64 feet 157° 10' to nail in 14-inch walnut tree, 49.49 feet 242° 06' 40'' to nail in 15-inch willow tree, 45.65 feet 333° 49' to nail in 12-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 959).....	317. 833
Cache Island, 4,300 feet above lower end of, on top of bank, behind clump of large cottonwood trees, between pike and fence; 59.84 feet 13° 52' 20'' to nail in 12-inch cottonwood tree, 67.95 feet 50° 27' 20'' to nail in 15-inch willow tree, 120.13 feet 83° 07' to nail in 24-inch cottonwood tree, 97 feet 308° 53' to nail in 24-inch cottonwood tree, 65.93 feet 349° 24' 40'' to nail in 20-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 960)....	318. 904
Mound City, Ill., opposite, on top of bank, in public road at Holloway's Landing, Ky., about 25 feet above store, near large stump about 5 feet high; 107.57 feet 25° 06' 40'' to nail in 30-inch cottonwood tree, 168.40 feet 70° 28' 20'' to nail in 12-inch thorn tree, 84.95 feet 269° 04' 40'' to nail in 30-inch thorn tree; top of iron post (U. S. C. E. p. b. m. 961).....	319. 330
Mound City, Ill., below, approximately 600 feet below house, on top of bank, near very large elm tree; 15.3 feet 25° to nail in 24-inch elm tree, 48.38 feet 91° 34' 40'' to nail in 30-inch sycamore tree, 20.82 feet 222° 29' 40'' to nail in 20-inch cottonwood tree, 72.72 feet 289° 05' 40'' to nail in 24-inch cottonwood tree, 62.3 feet 322° 00' 20'' to nail in 24-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 962).....	315. 880

Mound City, Ill., below, about 300 feet above house, on top of bank, near three very large cottonwood trees, between maple and cottonwood trees; 47.9 feet 113° 36' to nail in 24-inch sycamore tree, 76.7 feet 210° 44' 40'' to nail in 20-inch catalpa tree, 30.25 feet 290° 32' 40'' to nail in 24-inch maple tree; top of iron post (U. S. C. E. p. b. m. 963).....	Feet. 311. 225
Mound City, Ill., below, about 3,400 feet above railroad bridge, on top of bank, near fence around barn with ridgepole parallel to river; 78.8 feet 65° 54' 20'' to nail in 6-inch thorn tree; top of iron post (U. S. C. E. p. b. m. 964).....	315. 875
Mound City, Ill., below, about 2,900 feet below railroad bridge, on top of bank, halfway between walnut and locust trees; 217.8 feet 98° 25' 20'' to nail in 20-inch pecan tree, 248.41 feet 251° 46' to nail in 24-inch pecan tree; top of iron post (U. S. C. E. p. b. m. 965).....	312. 220
Cairo Landing, approximately opposite upper end of, 600 feet below remains of old railroad transfer slip, on top of bank; 143.20 feet 152° 12' 40'' to nail in 14-inch sycamore tree, 101.64 feet 215° 16' to nail in 10-inch locust tree; top of iron post (U. S. C. E. p. b. m. 966)	309. 410
Cairo, Ill., below, 1,800 feet below lower abandoned railroad transfer slip, on top of bank, about 40 feet in from edge of young willow grove; 9.78 feet 14° 05' to nail in 10-inch willow tree, 21.59 feet 103° 56' to nail in 6-inch willow tree, 16.1 feet 132° 40' to nail in 6-inch cottonwood tree, 14.08 feet 181° 52' 20'' to nail in 8-inch willow tree, 23.35 feet 255° 05' to nail in 6-inch willow tree, 19.77 feet 289° 59' to nail in 5-inch willow tree; top of iron post (U. S. C. E. p. b. m. 967).....	307. 331
Ohio River, at mouth of, 600 feet down and across from end of Illinois shore, on top of bank, approximately 40 feet in from edge of young cottonwood grove; 35.46 feet 28° 18' to nail in 12-inch cottonwood tree, 22.06 feet 138° 27' to nail in 7-inch cottonwood tree, 28.44 feet 235° 57' 40'' to nail in 8-inch cottonwood tree, 22.03 feet 321° 53' to nail in 7-inch cottonwood tree; top of iron post (U. S. C. E. p. b. m. 968).....	307. 278

WICKLIFFE QUADRANGLE.

[Latitude 36° 45'-37°; longitude 89°-89° 15'.]

From Clinton north along Illinois Central Railroad to East Cairo.

Arlington, in southwest corner of back yard of Thomas G. Edwards's house, near railroad station; square cut in limestone block, lettered "U. S. □ B. M." (C. & G. S. No. VIII)	365. 573
Bardwell, at west entrance to courthouse, in south end of doorsill, bottom of square cut, marked "U. S. □ B. M." (C. & G. S. No. VII)	392. 820
Mayfield Creek (boundary between Ballard and Carlisle counties), on Illinois Central R. R. bridge over, on stone coping of brick pier on north bank of creek west of track, just outside of bridge; bottom of square cut lettered "U. S. □ B. M." (C. & G. S. No. VI).....	319. 610
Fort Jefferson, in northeast corner of J. M. Vance's yard, across street from J. C. Depoyster's store; square cut in limestone block, lettered "U. S. □ B. M." (C. & G. S. No. V).....	323. 713
Wickliffe, near northwest corner of Elliott House, close to brick wall on street; square cut in limestone block, lettered "U. S. □ B. M." (C. & G. S. No. IV).....	334. 588
East Cairo, in top of levee protecting Mobile & Ohio R. R. yard, just back of yardmaster's office, in 6-inch square limestone block projecting 2 inches from ground; bottom of square cut lettered "U. S. □ C. S. B. M." (C. & G. S. No. III).....	324. 976

At Columbus.

Fort Jefferson, in northeast corner of cleared field belonging to Joseph Dupuiste, in stone post 0.96 meter long, top of which is 0.1 meter below surface of ground; copper bolt, marked "U. S." (U. S. C. E. p. b. m. 6)..	Feet. 321. 329
Columbus, in south side of brick building situated on Front Street fronting on river and belonging to Bank of Kentucky known as "Mansion House;" halfway between the most eastern windows of main building, in first course of bricks below window sills; middle of small hole in copper bolt, marked "U. S. □ B. M. February 3, 1877" (U. S. C. E. p. b. m. 7).....	315. 140
Columbus, in southeast corner of Baptist Church yard, 1.5 meters from each fence, in top of stone post; copper bolt lettered "U. S." (U. S. C. E. p. b. m. 8).....	307. 894
Columbus, corner of Roane Street and fourth street from river, northeast corner of Baptist Church, in east face of corner stone; copper bolt (U. S. C. E. p. b. m. 9).....	309. 659

HICKMAN QUADRANGLE.

[Latitude 36° 30' - 36° 45'; longitude 89° - 89° 15'.]

From Columbus south along Mississippi River to Hickman.

Columbus, 3 miles below, 35 meters north of old shed, 5 meters north of cherry tree, between road and river, 150 meters back from river and 20 meters from road, at point where lane leads south between fields, in top of stone post in ground set on "Chalk Bluffs"; copper bolt (U. S. C. E. p. b. m. 10).....	452. 300
Worshams Landing, 0.8 mile above, 7 miles below Columbus, 200 meters back from river, 160 meters southeast of corner of cornfield, in stone post in woods; copper bolt (U. S. C. E. p. b. m. 11).....	306. 712
Worshams Landing, 1.8 miles below, 30 meters above edge of heavy timber, in stone post in woods; copper bolt (U. S. C. E. p. b. m. 12).....	302. 919
Hickman, 2.8 miles above, 400 meters below mouth of Little Obion River, in northwest corner of P. J. Frenz's front yard, in stone post; copper bolt (U. S. C. E. p. b. m. 13).....	301. 492
Hickman, in northwest corner of Episcopal Church yard, in stone post, 1 meter from each fence; copper bolt (U. S. C. E. p. b. m. 14).....	360. 225
Hickman, corner of Union and Clinton streets, in southwest corner of Millet's Block, on top of southeast corner of stone window sill; center of square cut; vertical face of sill is marked "U. S. B. M." (U. S. E. C. p. b. m. 15).....	310. 047

BAYOUVILLE QUADRANGLE.

[Latitude 36° 30' - 36° 45'; longitude 89° 15' - 89° 30'.]

From Hickman west along Mississippi River to point 17 miles west of Hickman.

Hickman, 4.2 miles below, in northwest corner of Golder's front yard, in stone post; copper bolt (U. S. C. E. p. b. m. 16).....	300. 983
Hickman, 9.5 miles below, 80 meters from east bank of No. 8 chute, 20 meters from Cane Creek, on land of Henry Bocharas, in stone post in woods; copper bolt (U. S. C. E. p. b. m. 17).....	297. 446
Hickman, approximately 13 miles below, about 1 mile below foot of No. 8 chute, 72 meters southwest of dwelling house on land of Richard Finch, 62 meters from river, in stone post; copper bolt (U. S. C. E. p. b. m. 18).....	295. 098
Hickman, 17 miles below, 2 miles above Kentucky-Tennessee State line, 60 meters from river, 340 meters above Lester's house, 1 meter north of fence, 1.5 meters from sycamore tree, in stone post; copper bolt (U. S. C. E. p. b. m. 19).....	296. 192

WATERVALLEY QUADRANGLE.

[Latitude $36^{\circ} 30' - 36^{\circ} 45'$; longitude $88^{\circ} 45' - 89^{\circ}$.]

From Fulton northwest along Illinois Central Railroad to Clinton.

Fulton, in east wall of E. C. Reed's livery stable, in nineteenth course of brick from ground, in fifteenth brick from northeast corner of stable; brass bolt, lettered "U. S. \odot B. M." (C. & G. S. No. XI).....	Feet. 360. 445
Alexander, near northwest corner of J. M. Cashon's frame house, on east side of railroad track, near station; square cut in limestone block lettered "U. S. \square B. M." (C. & G. S. No. X).....	370. 507
Clinton, at south entrance of courthouse; square cut in stone doorsill lettered "U. S. \square B. M." (C. & G. S. No. IX).....	391. 321

APPENDIX B.

SECONDARY ELEVATIONS.

Secondary elevations from records and topographic maps of the United States Geological Survey including vertical-angle determinations, altitudes of well-known summits, and other useful elevations are given below. These elevations are approximate only and should not be used for accurate work.

Place.	Quadrangle.	County.	Elevation.
Baskett.....	Newburg.....	Henderson.....	397
Big Black Mountain, highest point in State according to surveys thus far completed.	Estillville.....	Harlan.....	4,100
Birk.....	Newburg.....	Daviess.....	382
Bluff City.....	do.....	Henderson.....	394
Boxville.....	Morganfield.....	Union.....	443
Brushy Mountain triangulation station.....	London.....	Rockcastle.....	1,535
Cairo.....	Sebree.....	Henderson.....	465
Corydon.....	do.....	do.....	438
Curdsville.....	Calhoun.....	Daviess.....	393
Delaware.....	do.....	do.....	397
Dixie.....	Sebree.....	Henderson.....	457
Frazier Knob.....	London.....	Laurel.....	1,540
Gishton.....	Central City.....	McLean.....	560
Hartford.....	Hartford.....	Ohio.....	434
Kirkwood Springs.....	Providence.....	Hopkins.....	440
Linville Knob.....	London.....	Rockcastle.....	1,575
Nicholasville.....	Harrodsburg.....	Jessamine.....	993
Paynes, road crossing on Louisville & Nashville R. R.	Georgetown.....	Scott.....	847
Potato Hill.....	Estillville.....	Harlan.....	3,650
Robard.....	Sebree.....	Henderson.....	425
Russell.....	Ironton.....	Greenup.....	558
Sulphur Springs.....	Morganfield.....	Union.....	465
Sutton Knob.....	London.....	Rockcastle.....	1,515
White Rocks.....	Jonesville.....	Harlan County, Ky., Lee County, Va.	3,451
Zion.....	Newburg.....	Henderson.....	436

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